

# **UNIVERSITY OF NEBRASKA AT OMAHA**

---

**2025-2026 Catalog**

**University of Nebraska at  
Omaha**

**2025-2026 Catalog**

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# ABOUT UNO

## UNO

Located in one of America's best cities to live, work and learn, the University of Nebraska at Omaha (UNO) is Nebraska's premier metropolitan university. With more than 15,000 students enrolled in 200-plus programs of study, UNO is recognized nationally for its online education, graduate education, military friendliness, and community engagement efforts. Founded in 1908, UNO has served learners of all backgrounds for more than 100 years and is dedicated to another century of excellence both in the classroom and in the community.

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## Metropolitan University Mission

### Mission Statement

As a metropolitan university of distinction, Carnegie Doctoral Research Institution, and one of the first universities to earn the Carnegie Community Engagement Classification, the University of Nebraska at Omaha (UNO) transforms and improves the quality of life locally, nationally and globally.

The "metropolitan university," defined in its simplest terms, is an institution that accepts all of higher education's traditional values in teaching, research, and service, but takes upon itself the additional responsibility of providing engaged leadership within the metropolitan region by using its human and financial resources as partners to improve the region's quality of life. Adapted from Paige E. Mulhollan's "Aligning Missions with Public Expectations: The Case of the Metropolitan Universities," Metropolitan Universities, 1995.

Learn more about the UNO metropolitan mission (<https://www.unomaha.edu/about-uno/mission.php>).

## Accreditation

The University of Nebraska at Omaha (UNO) is accredited by the Higher Learning Commission (HLC), which is an independent agency founded in 1895 that accredits degree-granting colleges and universities in the United States. HLC accreditation applies to the entire university, all its programs, and all its locations\*.

In addition, where applicable, a number of programs have been awarded program/discipline-specific accreditation (<https://www.unomaha.edu/accreditation/programs/>). Some program/discipline-specific accreditations are related to licensure or certification to practice in a specified field. To determine if and how this applies to their program of study, prospective and enrolled students are encouraged to check with department/school advisors for additional information.

\*HLC can be contacted at 230 South LaSalle Street, Suite 7-500, Chicago, IL 60604-1413; email: [info@hlcommission.org](mailto:info@hlcommission.org).

## Community Engagement

### Community Engagement

UNO is Nebraska's metropolitan university – a university with strong academic values and significant relationships with our community that transforms and improves life. Community engagement and service are fundamental components of UNO's identity. This commitment to engagement is reflected in UNO's academics, student body, partnerships, and institutional framework.

Learn more about the commitment to engagement (<https://www.unomaha.edu/campus-commitment-to-community-engagement/>).

Learn more about Community Engagement Opportunities. (p. 51)

## University Structure

### University Structure

UNO is part of the Nebraska University system. The system has four university campuses: UNK, UNL, UNMC, and UNO. The campuses are led by the University President and the president reports to the Board of Regents which is an elected body. Each campus is led by a chancellor who manages an administrative team of vice chancellors who, in turn, oversee different aspects of campus, including academic affairs and student success.

Within UNO, there are six different colleges, each containing different departments or schools. The deans are the top administrators of the colleges. Department chairs or school directors oversee the faculty, staff, and academic processes of the department/school. If you are unsure of your college affiliation, your advisor can assist you in determining the college in which your degree resides.

- College of Arts and Sciences
- College of Business Administration
- College of Communication, Fine Arts, and Media
- College of Education, Health, and Human Sciences
- College of Information Science & Technology
- College of Public Affairs and Community Service

All UNO graduate programs are administered by the UNO Office of Graduate Studies (<https://www.unomaha.edu/graduate-studies/>), which is part of the University of Nebraska Graduate College.

## University Leadership

### Board of Regents

The Board of Regents consists of eight voting members elected by district for six-year terms, and four non-voting student Regents, one from each campus, who serve as student body president.

Learn more about the Board of Regents (<https://nebraska.edu/regents/board-members/>).

## President

Jeffrey P. Gold - President, University of Nebraska  
Meet the President (<https://nebraska.edu/president/meet-the-president/>)

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## **UNO Administration**

### **Chancellor**

Joanne Li, Ph.D., CFA Chancellor

### **Executive Leadership Team**

Learn more about the UNO Administration (<https://www.unomaha.edu/about-uno/administration.php>).

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# REGULATIONS AND POLICIES

- **Academic Integrity Policy (p. 16)**
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## Academic Integrity Policy

Under the Bylaws of the Board of Regents of the University of Nebraska [Sections 2.9 and 4.1(i)], the respective colleges of the University have jurisdiction over procedural matters concerning academic dishonesty. Just as the task of inculcating values of academic honesty resides with the faculty, the faculty is entrusted with the discretionary authority to decide how incidents of academic dishonesty are to be resolved.

This policy applies to all colleges and academic units at the University of Nebraska at Omaha ("UNO" or "University"). Each college and academic unit, including its faculty members, have the responsibility to educate its students about this policy and any additional standards of conduct for academic integrity in a particular course. Students are responsible for understanding and adhering to the requirements of this policy and any additional academic integrity standards prescribed by a college and academic unit, including its faculty members.

Learn more about Academic Integrity <https://www.unomaha.edu/student-life/student-conduct-and-community-standards/policies/academic-integrity.php>

## Discrimination and Sexual Misconduct Policies

### Discrimination and Sexual Misconduct Policies

The University of Nebraska does not discriminate based on race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation in its education programs or activities, including admissions and employment. The University prohibits any form of retaliation taken against anyone for reporting discrimination, harassment, or retaliation for otherwise engaging in protected activity. Read the full statement (<https://www.unomaha.edu/notice-of-nondiscrimination-anti-harassment-and-non-retaliation.php>).

Procedures for Discrimination Reports (<https://www.unomaha.edu/university-compliance/civil-rights/procedures-for-discrimination-reports.php>)

### Sexual Misconduct Policies

Beginning with the University of Nebraska charter in 1869, Nebraska law has provided that no person shall be deprived of the privileges of this institution because of sex. Discrimination on the basis of sex is also prohibited by federal law. All members of the University community are expected to conduct themselves in a manner that maintains an environment free from sexual misconduct. Sexual misconduct, which includes domestic violence, dating violence, sexual harassment, sexual assault, sexual exploitation, and stalking, is unacceptable behavior under University of Nebraska policy and against the law. The University of Nebraska has programs to promote awareness of and to help prevent sexual misconduct, and to assist members of the university community who are affected by such behavior.

University of Nebraska Sexual Misconduct Policy and Procedures (<https://www.unomaha.edu/university-compliance/civil-rights/title-ix-information/policies-and-procedures.php>)

Resources for support (<https://www.unomaha.edu/university-compliance/civil-rights/title-ix-information/resources.php>)

All persons are expected to promptly report conduct that may violate the University's Sexual Misconduct or Nondiscrimination Policy to the University.

Sex based misconduct or discrimination should be reported to:  
 UNO Director of Civil Rights Compliance  
 Title IX Coordinator/ADA/504 Coordinator  
 Phone: 402-554-2120  
 Email: [equity@unomaha.edu](mailto:equity@unomaha.edu)

## Accommodations Statement

The University is committed to providing individuals with disabilities an equal opportunity to participate in and benefit from university programs, activities, and services. Individuals may request reasonable accommodations from the University that they believe will enable them to have such equal opportunity to participate in our programs, activities, and services. Requesting accommodations is an interactive process initiated by the individual making the reasonable accommodations request.

Procedures for Requesting Accommodations (<https://www.unomaha.edu/university-compliance/civil-rights/americans-with-disabilities-act/procedures-for-requesting-accommodations.php>)

## Family Education Rights and Privacy Act (FERPA)

### Family Education Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) of 1974 affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records.
2. The right to request the amendment of the student's education records to ensure they are not inaccurate, misleading, or otherwise in violation of the student's privacy or other rights.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent FERPA authorizes disclosure without consent.
4. The right to file with the U.S. Department of Education a complaint concerning alleged failures by the University of Nebraska at Omaha to comply with the requirements of FERPA.
5. The right to obtain a copy of the University of Nebraska at Omaha's Student Records Policy. A copy of the policy is available at the Office of the University Registrar, 105 Eppley Administration Building.

Learn more about FERPA (<http://www.unomaha.edu/registrar/students/transcripts-and-records/student-privacy-information-ferpa.php>).

## Freedom of Expression

### Freedom of Expression

The University of Nebraska honors the First Amendment of the U.S. Constitution and has long dedicated itself to the free exchange of ideas. The purpose of this policy is to articulate, clarify and underscore that long-standing commitment in a manner that furthers both freedom of expression and the University's mission of teaching, research and public service. The first section of this policy sets forth the University's and the Board of Regents' commitment to the tenets of Free Expression; the second section provides a framework for campuses to provide what are referred to as "facilities use plans" or programs applicable to particular spaces and resources on their campuses, consistent with that commitment, the law, and the University's mission; and the final section is a mandate for education with respect to the rights surrounding the First Amendment.

Read the full Freedom of Expression Policy (<https://nebraska.edu/-/media/unca/docs/offices-and-policies/policies/board-governing-documents/board-of-regents-policies.pdf>).

Adopted by the Board of Regents of the University of Nebraska on December 4 2020 (RP 6.4.10).

## State Authorization/ Governance Financial Reporting

### Coordinating Commission for Postsecondary Education

An institution that participates in the federal student aid programs authorized under Title IV of the Higher Education Act of 1965, as amended, must be authorized to operate by the state where it is located. There are two basic requirements for an institution to be legally authorized by the state for Title IV funding eligibility purposes. The state must authorize an institution to operate educational programs beyond secondary education, and the state must have a process to review and appropriately act on complaints concerning the institution, including enforcement of applicable state laws. Nebraska's Coordinating Commission for Postsecondary Education is responsible for responding to these formal complaints at <http://www.ccpe.state.ne.us/PublicDoc/Ccpe/Complaint.asp> (<https://ccpe.nebraska.gov/>).

## State Licensure

The US Department of Education requires the University of Nebraska at Omaha to notify both prospective and enrolled students in degree programs that lead to state licensure or certification required for entry into a profession in the state in which students are located.

Certification and licensure requirements differ from state to state. University of Nebraska at Omaha is required to notify students if the program they are interested in or enrolled in will meet educational requirements to apply for certification or licensure in their home state.

Learn more about State Licensure (<https://www.unomaha.edu/academic-affairs/about-us/licensure.php>)

## Governance/Financial Information

The University of Nebraska is one university, governed by a Board of Regents whose members are elected by Nebraska voters. The board appoints a chief executive officer—the president of the University of Nebraska—who is the single administrative officer responsible to the board. The university conducts its programs primarily on its four campuses (UNO, UNMC, UNL, UNK). The president's office provides overall leadership to the university in academic affairs, budget development and control, business and finance, physical planning, policy development, external affairs, diversity and equity, and legal affairs. The chancellors of the four campuses, who are appointed by the president, also serve as vice presidents of the university and as chief operating officers on their own campus.

Annual financial reports for the University of Nebraska are available at: [nebraska.edu/offices-policies/business-finance/accounting-finance](https://nebraska.edu/offices-policies/business-finance/accounting-finance) (<https://nebraska.edu/offices-policies/business-finance/accounting-finance/>)

Annual operating budgets are available at [nebraska.edu/administration/business-and-finance/budget-information.html](https://nebraska.edu/administration/business-and-finance/budget-information.html) (<http://www.nebraska.edu/administration/business-and-finance/budget-information.html>).

# Statement of Student Rights and Responsibilities

## Statement of Student Rights and Responsibilities

### I. University of Nebraska Bylaws

Students, like all members of the academic community, have the responsibility to create and support an educational environment. Each member of the community should be treated with respect and dignity. Each has the right to learn. This right imposes a duty not to infringe upon the rights of others. The academic community should assure its members those opportunities, protections and privileges that provide the best climate for learning. (Bylaws of the Board of Regents, Section 5.0.) UNO shall publicize and keep current all rules, regulations, and policies concerning students, and ensure that they are readily available to all students and other interested persons. (Bylaws of the Board of Regents, Section 5.1.)

**1. Admissions Criteria** UNO shall publish the criteria for admission, academic progress, certificates, and degrees for all colleges and schools of the University. Admission to the University and the privileges of University students shall not be denied to any person because of age, sex, race, color, national origin, or religious or political beliefs. (Bylaws of the Board of Regents, Section 5.2.)

**2. Academic Evaluation** Students shall be informed of the requirements, standards, objectives and evaluation procedures at the beginning of each individual course. Each student shall be given a performance evaluation during the progress of the course if requested. Each college or school shall provide for a faculty-student appeals committee for students who believe that evaluation of their academic progress has been prejudiced or capricious. Such procedure shall provide for changing a student's evaluation upon the committee's finding that an academic evaluation by a member of the faculty has been improper. Procedures for appealing evaluation of academic progress are provided by each college or school unit. Generally, but not necessarily conclusively, the procedures are similar to the following: Students wanting to appeal a grade (evaluation that has been prejudiced or capricious), shall attempt to discuss the matter directly with the instructor. If the student and the instructor do not reach a satisfactory agreement, the student may submit an appeal in writing to the chairperson of the department in which the course is offered. If the student and chairperson do not reach a satisfactory agreement, the student may submit an appeal in writing to the Dean of the College in which the course was offered. The decision made at this level, which would include a hearing by a faculty-student appeals committee, will be final. Each college or school shall provide a mechanism by which students have an opportunity to report their perceptions of courses and the methods by which they are being taught, provided, however, that such mechanism shall protect members of the faculty from capricious and uninformed judgments. (Bylaws of the Board of Regents, Section 5.3)

**3. Public Information Regarding Students** Public information regarding students, rules with respect to confidentiality, and any release of information will be governed in accordance with Federal and State law. The Board is authorized to develop policies and procedures consistent with that law. (Bylaws of the Board of Regents, Section 5.6.)

**4. Disciplinary Records** Subject to any requirements of the Records Management Act, the University shall provide for the periodic destruction of noncurrent disciplinary records. (Bylaws of the Board of Regents, Section 5.7.)

**5. Student Communications Media** Student publications and broadcasting stations shall be supervised in a manner such that editorial freedom will be maintained and that the corollary responsibilities will be governed by the canons of ethical journalism. Student publications

financed in whole or in part by fees collected from all students at UNO shall be supervised by a Publications Committee. This committee shall have full responsibility of a publisher and the power of decision on the proper application of the canons of ethics. Students shall comprise a majority of the membership, but the committee shall also include members of the faculty and professional journalists from outside the University. (Bylaws of the Board of Regents, Section 5.9.)

**6. Eligibility for and Participation in Co-Curricular Activities.** Co-Curricular activities and registered student organizations are offered by the University to meet the needs of interests and promote the development of special skills of its student population. To participate as a member in any recognized student organization, at a minimum, a student must be enrolled in at least one credit course, excluding audit hours.

Additional membership criteria may be established by UNO based on the nature of the organization and/or set by the organization themselves.

Membership requirements set by organizations may be more, but not less, stringent than those laid out by the University but must be in compliance with any federal laws and/or restrictions. Interested students should contact the leadership of the student organization or co-curricular activity for specific membership guidelines/requirements. Officers of all organizations, in conjunction with the support of their faculty and staff advisors, are tasked with enforcing membership requirements.

The University of Nebraska does not discriminate based on race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation in its programs, activities, or employment.

**7. Campus Speakers** Students are allowed to invite and hear any person of their own choosing. Institutional procedures will ensure the orderly and adequate preparation for the event. However, the control of campus facilities will not be used as a device of censorship. (Bylaws of the Board of Regents, Section 5.11.)

## II. University of Nebraska Policies

**1. Academic Degree Completion** The requirements for graduation from a bachelor's degree program shall be those listed in the Catalog effective at the time of matriculation provided continuous enrollment (excluding summer sessions) was maintained. However, the University reserves the right to withdraw and substitute courses, to reassign instructors and to change the nature of instruction, as deemed necessary. In some cases, prerequisites for courses offered at the University are effective even if they are not listed in a given catalog. (See the current schedule of classes or your adviser for details.) A student may meet requirements listed in a subsequent Catalog if written approval is granted by the dean of the college in which the student is enrolled. Acceptance of registration by the University of Nebraska and admission to any educational program of the University does not constitute a contract or warranty that the University will continue indefinitely to offer the program in which a student is enrolled. The University expressly reserves the right to change, phase out, or discontinue any program. The listing of courses contained in any University bulletin, catalog or schedule is by way of announcement only and shall not be regarded as an offer of contract. The University expressly reserves the right to 1) add or delete courses from its offerings, 2) change times or locations of courses or programs, 3) change academic calendars without notice, 4) cancel any course for insufficient registrations, or 5) revise or change rules, charges, fees, schedules, courses, requirements for degrees and any other policy or regulation affecting students, including, but not limited to, evaluation standards, whenever the same is considered to be in the best interests of the University. (Policies of the Board of Regents, Section 5.1.3)

**2. Right to Public Hearing** It shall be the right of any individual member or group of members of the University (i.e., students, faculty, or administrators) to be granted, upon petition to the appropriate policy making body or office, a public hearing at which the policy indicated by the group of petitioners in their petition shall be discussed. The policy-



making body or office petitioned shall schedule the hearing for some time convenient to the interested parties if possible, no later than two weeks after the petition is submitted during periods when the University is in session, and shall announce publicly in advance the time and place of the hearing. At the hearing, that body responsible for the policy indicated in the petition shall clarify said policy, offer the reasons which justify the policy in view of the objections or questions raised about it in the petition, and respond to any additional questions or criticisms of the policy or related policies raised at the hearing by any member of the University. It is expected that before such a petition is submitted, all other normal channels for raising questions about the policy have been exhausted. If, in the view of the policy-making body or office to whom the petition is submitted, the petition is merely a form of harassment or adequate answers are available through other normal channels, the petition may be referred to the relevant committee to determine whether the hearing must be held. A decision by the Committee not to hold a public hearing shall be overruled by the submission to that committee of a petition requesting such hearing and signed by at least 100 members of the University community. (Policies of the Board of Regents, Section 2.1.3)

**3. Directory Information** In compliance with the federally-enacted Privacy Act and as defined by the Board of Regents, public directory information regarding students attending UNO shall be the (i) student's name, (ii) year at the University, (iii) dates of attendance, (iv) academic college and major field of study, (v) enrollment status (e.g. undergraduate or graduate; full-time or part-time), (vi) participation in officially recognized activities and sports, (vii) degrees, honors and awards received, (viii) most recent educational agency or institution attended, (ix) University email address, and (x) hometown. Non-public directory information regarding students attending UNO shall be the (i) local address, (ii) permanent address, and (iii) telephone listings. Public directory information will be available to the public upon request and may be included in student directories published electronically. Non-public directory information is not available to the public, but is available to University faculty, staff, and students for University purposes. Directory information will be released by the Registrar in accordance with this policy upon inquiry, unless the student has requested that specific items not be released. The student's request to have directory information withheld should be filed at the Office of the Registrar. (Policies of the Board of Regents, Section 5.10.) An explanation of this Act and its application at UNO is available to all students. Copies may be obtained online at <https://www.unomaha.edu/registrar/ferpa> (<https://www.unomaha.edu/registrar/ferpa/>)

**3.1 Mandated Release of Information** UNO shall disclose to a victim of any crime of violence the results of any disciplinary proceeding conducted against the alleged perpetrator of such crime with respect to such crime. (Policies of the Board of Regents, Section 5.10)

**4. Sponsorship of Speakers with Student Fees** The purpose of a speakers program is to advance the general educational purposes of the University by putting before the University community a broad range of ideas in a variety of contexts. The organizations administering speaker programs should make every attempt to provide balance on all subjects presented. All students are encouraged to join programming groups and/or give their input on speaker selection. (Policies of the Board of Regents, Section 5.6.1)

### III. UNO Policies

**1. Counseling/Medical Records** Information exchanged with and/or maintained by a professional counselor/psychologist or medical personnel about a student client will remain confidential, except under legal compulsion.

**2. Demonstrations** The University acknowledges the rights of members to express their views by peaceful demonstration. UNO is an academic community founded upon a belief in rational dialogue and mutual respect among its members. The opportunities for communication within the University are many and varied, and the University welcomes suggestions

for enlarging or improving them. The nature of the academic community demands that all members strive to maintain the rational dialogue which is the cornerstone of the University. There is no conceivable issue, be it a question of academic and administrative policy or of students' rights and freedoms, that cannot be approached within the framework of free discussion.

#### a. Demonstration Procedures

Members of the academic community, including the guests of the University, have the right of extensive latitude in making their opinions known. It is understood, however, that in exercising this right the rights of others must not be jeopardized. The public exploration and resolution of differing views can be successful only when groups and individuals discuss the issues in forums where the right to disagree and to speak freely and be heard is preserved. Within this context, the University community recognizes peaceful demonstration as a legitimate means of expressing one's opinion.

The preservation of freedom of speech, and the recognition of the right to peaceful demonstration as part of that freedom, is possible only in an orderly environment in which individuals are not endangered by force or violence and in which they are free from coercion and interference in the exercise of their rights or in carrying out their legitimate activities.

University Public Use of Facilities forms are available in the Administrative Office of the Milo Bail Student Center or by contacting [unoreservations@unomaha.edu](mailto:unoreservations@unomaha.edu) ([unoreservations@unomaha.edu](mailto:unoreservations@unomaha.edu)) and must be submitted and approved with all necessary signatures at least 48 hours (two business days) before the proposed demonstration. Board of Regents bylaws state that, in cases of the disruption of normal University activities, the Chancellor or his/her designee will, in accordance with University policies and procedures, take necessary steps to restore the University to its normal function. The Chancellor or his/her designee may, in the event of refusal to disperse upon request, impose temporary action, including suspension of those persons disrupting the normal function of the University. The determination as to whether disciplinary action will be initiated for violations of University rules and regulations by students will be made by the Associate Vice Chancellor/Dean of Students or their designee.

The University community may impose behavioral restrictions which are necessary to preserve the orderly functioning of the University and the right of all to be heard. Such restrictions fall into two categories:

#### i. Prevention of violence or the use of force:

Demonstrations which coerce individuals or which constitute a hazard to the safety of any persons or which threaten destruction of property are not protected by freedom of speech provisions and will not be tolerated. Similarly, a hostile audience will not be allowed to interfere with a peaceful demonstration.

#### ii. Protection from interference with University operations:

The University community may restrict conduct which interferes with the holding of classes, the carrying forward of University business, properly organized and scheduled University events, or the discharge of responsibility by any University officer, employee or student. Although the mere presence of demonstrators in public areas within buildings does not necessarily constitute interference, demonstrators cannot be allowed physically to obstruct access to University facilities. Noise and boisterous activity is objectionable when it prevents others from exercising their rights and duties.

Persons engaging in disruptive action shall be subject to disciplinary measures, including separation from the University, and also to charges of violation of the law.

#### b. Response to Disruptive Behavior

The response of the University to any disruptive behavior must ultimately depend on the judgment of the officials who are in charge. However, the following guidelines should be observed:

- i. Every effort will be made to end the disruption through reason and persuasion. These efforts shall include a clear indication of the willingness to discuss issues and to make clear the procedures for discussion and arbitration of the issues involved. Discussion of the issues will not be conducted under conditions of duress.
- ii. If the discussion method fails, the individuals involved will be notified that they are in violation of University regulations and they will be asked to cease the activity. In the event the alleged violators do not cease the activity within a reasonable length of time, temporary sanctions, which may include conduct probation and if necessary, suspension, may be imposed on the scene. However, unless both the student and the University officials agree to a postponement, the University must hold disciplinary hearings within five (5) school days or the temporary sanctions will be dissolved. Such disciplinary hearing shall be held, as far as possible, in accordance with the established disciplinary procedures of the University. No temporary sanction shall be made part of a student's permanent record. If a student is found innocent of the action for which temporary sanctions were imposed, no record of the temporary sanction or of the hearing shall become part of any of the student's files or records and the student shall be given the opportunity to make up work which was not completed because of the disciplinary action.
- iii. If the use of institutional sanctions and discussion methods are not effective in ending the disruptions, or when alleged violators are not members of the University community, extra-institutional methods (including the invoking of police force) may be used. Non-members of the University community who are engaged in disruptive behavior may be referred to civil authorities for appropriate action.
- iv. Evidence regarding the activity of nonstudent members of the University community who are alleged to have engaged in disruptive behavior may be referred to their supervisors for appropriate action.

The University community abhors the use of force as a method for settling disagreement and will always make exhaustive attempts to deal with issues by rational methods. When, however, such rational efforts prove ineffective or when imminent danger to life or property exists, more forceful methods shall be used to protect the rights and property of members of the community.

**3. Distribution of Printed and Other Materials.** Students are free to express their beliefs and concerns in a variety of ways. Printed and other materials offered free of charge may be distributed at any location on the campus as long as such distribution does not interfere with normal traffic or functions of the University. Such materials may be distributed by any UNO-affiliated person provided such is accomplished in an orderly manner within the framework of University policies and the law. If specific space for distribution of material is desired, a location may be reserved in a designated area of the Milo Bail Student Center, in accordance with existing policies and procedures governing space reservations. Special care is requested of any and all parties distributing literature to prevent littering of the campus and surrounding areas. Such activity shall be conducted so as not to interfere with the rights of others or the normal activities of the University. Any material offered for sale, solicitation of donations, or posting on University bulletin boards must comply with UNO policy concerning these matters. Contact the Director of the Milo Bail Student Center if more specific information is desired.

**4. Information Services.** The facilities of UNO Information Services are available to students, faculty and staff of this institution for the purpose of instruction, research, and other activities as defined by the Chancellor. The computer facilities are University property and their operation is part of University operations. Executive Memorandum No. 16 of the President of the University of Nebraska states the University policy on responsible use

of University computers and information systems. Executive Memorandum No. 16 may be accessed on the Internet at: <https://nebraska.edu/offices-policies/policies/no-16-policy-for-responsible-use-of-university-computers-and-information-systems#Web> (<https://nebraska.edu/offices-policies/policies/no-16-policy-for-responsible-use-of-university-computers-and-information-systems/#Web>). The Student Code of Conduct addresses offenses related to the properties and operation of the University, and, therefore, also applies to computer use and facilities as it applies to all other University resources.

## 5. Nondiscrimination and Title IX

The University of Nebraska does not discriminate based on race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation in its education programs or activities, including admissions and employment. The University prohibits any form of retaliation taken against anyone for reporting discrimination, harassment, or retaliation for otherwise engaging in protected activity. Read the full statement (<https://www.unomaha.edu/notice-of-nondiscrimination-anti-harassment-and-non-retaliation.php>).

Unwelcome sex based conduct determined by a reasonable person to be so severe, pervasive, and objectively offensive that it effectively denies a person equal access to the University's education program or activity, or an employee of the University conditioning the provision of an aid, benefit, or service of the University on an individual's participation in unwelcome sexual conduct constitutes sexual harassment and will not be condoned or tolerated. Moreover, sexual misconduct including stalking, dating or domestic violence, sexual exploitation, and sexual assault is prohibited.

Appropriate corrective action will be taken toward any student or employee who is found to have violated UNO's non-discrimination, sexual harassment, and/or sexual misconduct policies. Further, UNO commits itself toward the assurance of non-retaliation toward any person who reports harassment, sexual misconduct, or discrimination or who participates in an investigation of such conduct.

If you suspect or experience discrimination, sexual harassment, or retaliation toward yourself or others, please keep records or other evidence of specifics and report the conduct. If you do not feel comfortable telling a person to stop inappropriate behavior, or if the behavior does not cease once you have made the request to do so, you may seek assistance from an administrator, professor, counselor, or advocate. Persons designated by the University as Officials with Authority are required to report sexual discrimination, harassment, or misconduct reported to them. Other employees are expected to provide assistance and report.

Title IX or Discrimination Inquiries should be directed to:

1. Civil Rights Compliance Office  
Eppley Administration Building #211  
Email: [equity@unomaha.edu](mailto:equity@unomaha.edu)  
Phone: 402.554.2120
2. Title IX Coordinator  
Eppley Administration Building #211  
Email: [equity@unomaha.edu](mailto:equity@unomaha.edu)  
Phone: 402.554.2120

# Student Code of Conduct

## University of Nebraska Student Code of Conduct ("Code")

Students at the University of Nebraska are members of an academic community in which academic integrity and responsible conduct are essential for the community to function. To ensure that students know what



is expected of them, the University has adopted the Standards of Academic Integrity and Responsible Conduct ("Standards").

Access the full Student Code of Conduct (<https://www.unomaha.edu/student-life/student-conduct-and-community-standards/policies/code-of-conduct.php>).

- Section I - Persons & Organizations Subject to the Standards
- Section II - Standards of Academic Integrity and Responsible Conduct
- Section III - University Responses to a Violation of the Standards
- Section IV - Enforcement of Standards
- Section V - Interim Measures
- Section VI - Miscellaneous Procedural Matters

All allegations of sexual misconduct, including sexual harassment under Title IX of the Education Amendments of 1972 (Title IX), sexual assault, sexual harassment, sexual violence, dating violence, domestic violence, or stalking are investigated and addressed following the procedures set forth in Executive Memorandum No. 38.

## **Student Right to Know/ Consumer Information**

### **Student Right to Know/Consumer Information**

The Higher Education Opportunity Act of 2008 (HEOA) requires that post-secondary institutions participating in federal student aid programs, including the University of Nebraska at Omaha (UNO), make certain disclosures to enrolled and prospective students, parents, employees, and the public. The following information is disclosed to you in compliance with federal law. To request paper copies of any of the information listed below, please contact the Office of Financial Support and Scholarships. The information on this page is reviewed and updated annually to ensure it is accurate, timely, and appropriate.

Learn more about the Student Right-to-Know Act ([https://www.unomaha.edu/admissions/financial-support-and-scholarships/tools-and-resources/consumer\\_info.php#nces](https://www.unomaha.edu/admissions/financial-support-and-scholarships/tools-and-resources/consumer_info.php#nces)).

Learn more about the Consumer Information ([https://www.unomaha.edu/admissions/financial-support-and-scholarships/tools-and-resources/consumer\\_info.php](https://www.unomaha.edu/admissions/financial-support-and-scholarships/tools-and-resources/consumer_info.php)) policy.

# CATALOG INTRODUCTION

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- **Catalog Purpose (p. 22)**
- **Catalog Disclaimers (p. 22)**

## Catalog Purpose

### Catalog Purpose

The catalog is a comprehensive resource that provides important information for students' academic careers at UNO. The catalog contains official descriptions of academic programs, prerequisites, courses, and degree requirements. In addition, the catalog provides an overview of academic policies and procedures, including admissions, enrollment, grading, and financial information.

## Catalog Disclaimers

### Discontinuance of Program Offerings

Acceptance of registration by the University of Nebraska and admission to any educational program of the University does not constitute a contract or warranty that the University will continue to offer the program in which a student is enrolled. The University expressly reserves the right to change, phase out, or discontinue any program.

The listing of courses contained in any University bulletin, catalog, or schedule is by way of announcement only and shall not be regarded as an offer of contract. The University expressly reserves the right to:

1. Add or delete courses from its offerings;
2. Change times or locations of courses or programs;
3. Change academic calendars without notice;
4. Cancel any course for insufficient registrations, or
5. Revise or change rules, charges, fees, schedules, courses, requirements for degrees, and any other policy or regulation affecting students, including, but not limited to, evaluation standards, whenever the same is considered to be in the best interests of the University.

## University's Right to Change

The University and its various colleges, divisions, and departments reserve the right to change the rules controlling admission to, instruction in, and graduation from the University or its various divisions. Such regulations are operative whenever University authorities deem necessary and apply not only to prospective students, but also to currently enrolled students.

The University also reserves the right to withdraw courses, to reassign instructors and to change tuition and fees at any time. In some cases, prerequisites for courses offered at the University are effective even if they are not listed in this catalog. See the current class schedule or your advisor for more information.

NOTE: Modifications in the academic calendar and program could be necessitated by emergency conditions.

# UNDERGRADUATE ADMISSIONS

- **Application Deadline Dates (p. 23)**
- **Application Process (p. 23)**
- **Admission Requirements (p. 23)**
- **Enrollment Deposit Fee (p. 25)**
- **International Applicants (p. 26)**
- **Admission Decisions (p. 27)**
- **Frequently Asked Questions (p. 27)**

## Application Deadline Dates

### Application Deadlines

To be considered for scholarships, first-year candidates should apply during the first semester of their final year of high school. Transfer students should apply during the semester preceding their intended enrollment.

Complete admission files (application and additional materials) must be received by the Undergraduate Admission Application deadline, which is one week before the start of classes for each term:

- **Fall 2025** – August 18, 2025
- **Spring 2026** – January 5, 2026
- **Summer 2026** – June 22, 2026
- **Fall 2026** – August 17, 2026

**Note:** For Non-Degree Students, applications are due by the first day of classes for each term. Please refer to the Academic Calendar (<https://www.unomaha.edu/registrar/academic-calendar.php>) for specific dates.

All applications must be submitted online by the deadline at [apply.unomaha.edu](http://apply.unomaha.edu).

## Application Process

### Application Deadlines

- Apply for admission online at [apply.unomaha.edu](http://apply.unomaha.edu) (<http://apply.unomaha.edu>).
- Submit all required documentation.

**Note:** Submitting an application or being admitted to UNO does not guarantee enrollment in any specific course.

All admission-related inquiries should be directed to:

**UNO Office of Undergraduate Admissions**  
111 Eppley Administration Building  
6001 Dodge Street

Omaha, NE 68182  
[unoadmissions@unomaha.edu](mailto:unoadmissions@unomaha.edu)  
402.554.2393

### Transcript & Documentation Policy

All documents submitted as part of an admission application become the property of UNO and cannot be copied, returned to the applicant, or forwarded to another organization, college, or university.

### Transcript Requirements:

- Official transcripts from all previously attended institutions must be sent **directly** to the UNO Undergraduate Admissions Office by the issuing institution.
- Transcripts provided by students or delivered by hand are **not** considered official.

UNO reserves the right to modify admission policies and deadlines at any time.

## Admission Requirements

### First-Year Applicant

The Board of Regents (<https://nebraska.edu/-/media/unca/docs/offices-and-policies/policies/board-governing-documents/board-of-regents-policies.pdf>) of the University of Nebraska establishes minimum admission requirements. Individual colleges may require additional credentials or have other requirements for specific programs.

### Documentation Needed

- **Final Official High School Transcript or GED Scores**
  - Must be sent directly from the high school to the UNO Office of Undergraduate Admissions.
  - The transcript must include a cumulative record of all coursework completed.
- **GED (General Education Diploma)**
  - UNO recognizes the GED as equivalent to a high school diploma.
  - Some credit may be assigned based on subject area scores, but the GED alone may not meet the 16 core course requirements.
- **Homeschooled students**
  - Must submit a typed transcript (semester format) of all coursework completed.
  - The transcript must include grades, course completion dates, and a signature from the administrator of grades.
  - Additional documents may be required for admission decision.
- **College Credit Earned During High School**
  - Must be sent directly from the college's registrar's office to UNO.
  - Early Entry and Dual Enrollment students at UNO do not need to request a transcript.

### Assured Admission (First-Year Applicants)

Graduates of a regionally accredited high school or who have completed the equivalent training (GED) must meet the following criteria for assured admission:

### Core Course Requirements (16 units)

All students are expected to complete the following 16 high school core course units:

- **English – 4 units**  
Must include intensive reading and writing. *Dual language or ELL English classes do not satisfy this requirement.*
- **Mathematics – 3 units**

Must include Algebra I, Algebra II, and Geometry.

- **Social Sciences – 3 units**

Must include at least one unit of American and/or World History and one additional unit from history, government, or geography.

- **Natural Sciences – 3 units**

Must include two units from biology, chemistry, physics, or earth sciences. One must include a laboratory component.

- **World Languages – 2 units**

*\* Some NU colleges may require world language for admission.*

*For colleges that require world language, both units must be in the same language. **Students who do not take two years of world language in high school may still qualify for admission to colleges without a world language requirement. BOR RP-5.2.1 Admission Standards***

- **Elective – 1 unit**

One additional unit from any of the academic areas above.

**Note:** One unit is equivalent to one school year in grades 9–12.

## Performance Requirements

Students must meet **one** of the following:

- Rank in the top 50% of their graduating class.
- Earn an ACT composite score of 20 or higher (or SAT equivalent).
- Achieve a minimum cumulative GPA of 3.00 (by the end of the sixth semester of high school or later).

## Transfer Applicants

Applicants must report all collegiate courses on their admissions application, including:

- Courses from accredited and unaccredited institutions.
- Courses dropped, failed, or incomplete.

Failure to report previous postsecondary coursework may result in **denial of admission** or **dismissal** from the university.

## Transfer Admission Criteria

- Must be in good academic standing at the last institution attended.
- College-Specific GPA Requirements
  - College of Arts and Sciences (p. 71) 2.0 GPA
  - College of Business Administration (p. 379) 2.5 GPA
  - College of Communication, Fine Arts and Media (p. 429) 2.25 GPA
  - College of Education, Health, and Human Sciences (p. 512) 2.0 GPA
  - College of Engineering (p. 605) 2.5 GPA
  - College of Information Science & Technology (p. 643) 2.5 GPA
  - College of Public Affairs and Community Service (p. 681) 2.5 GPA

## Documentation Needed

- **Final official high school transcript or official GED equivalency scores**
  - Must be sent directly from the high school to the UNO Office of Undergraduate Admissions (if fewer than 24 transferable credit hours).
- **Official college transcript(s)**
  - Must be sent directly from the registrar's office of each institution attended.

**Exception:** Transfer students with **24 or more** transferable credit hours are **not required** to meet high school core course requirements.

## Transfer Additional Notes

- Students on **academic suspension or dismissal** within the last year will be denied admission.
- Transcripts are retained for **one year** if a student does not enroll.
- Provisionally admission students must submit **all required transcripts within the first eight weeks** of enrollment.

## Awarding of Transfer Credits

- **Transcripts from previous institutions** are maintained in the University Registrar's Office.
- The **dean of the UNO College** determines how transfer credits will apply toward degree requirements.
- Credits and grades earned at other University of Nebraska campuses are accepted and computed into the student's GPA as part of their official record.
- **Courses must have a grade of "C-" or better** to transfer from accredited institutions.
  - The **College of Business** requires a minimum grade of **"C"** or better for transfer credit.
- Credit Hour Limits:
  - A **maximum of 64 semester credit hours** can be transferred from a regionally accredited **two-year** college to most UNO undergraduate colleges.
  - The **College of Engineering** allows up to **66 semester credit hours** from a two-year institution.
  - Each UNO college has a **minimum number of credit hours** to be completed at UNO prior to graduation.
- **International Transfer Credits:**
  - Students transferring credits from institutions outside the U.S. may be required to submit a **course syllabus (with translation) for evaluation**.

## Nebraska System Students

### Transferring or Change of Campus

Students transferring from another **University of Nebraska campus** must:

- Follow Change of Campus instructions.
- Complete an undergraduate application.

**Note:** Students on **academic suspension or dismissal** within the last year will be denied admission.

### Visiting (Non-Degree) or Intercampus

A **Non-Degree/Visiting student** is someone from another NU campus taking courses at UNO for a semester without enrolling in a degree program.

- Must submit an Intercampus Application each semester.
- Does **not** need to complete an undergraduate application.
- Financial holds must be **cleared** before applying.
- Students on **academic suspension** within the last year are **ineligible** to enroll at UNO.

## Former UNO Students (Readmission Criteria)

Former UNO students who have not enrolled in **two or more years** must submit a new Application for Undergraduate Admission.

- Students on **academic suspension** must schedule an **advising/reinstatement meeting** before reapplying.

- If you have completed additional coursework at another institution, please submit the **official transcripts** for those courses as part of the admissions process.

## Non-Degree (Visiting) Students

Individuals may apply as **visiting (non-degree) students** to take courses at UNO for personal or professional development **without** enrolling in a degree program.

Requirements:

- Must be in **good academic standing**.
- Applicants who were **suspended** from another institution within the past **year** are **not eligible** for admission.
- Applicants who were **denied admission** as a degree-seeking student **cannot** be admitted as a non-degree student.
- Must have a **high school diploma or GED**.
- **Non-degree students** are **not eligible** for financial aid or scholarships.

## English Proficiency Policy

Applicants whose **first language is not English** must demonstrate proficiency through **one** of the following:

- Completion of **four years of standard high school English** in an accredited U.S. high school.
- ACT English subscore of **20+** (or SAT equivalent).
- Completion of an **AA or AS degree** from a regionally accredited U.S. institution with a GPA of **2.5+**.
- Completion of **English Composition I or II** with a grade of **C or better** from a regionally accredited U.S. postsecondary institution.
- Submission of official **English proficiency test scores** from an approved agency.

## Early Entry Admissions Program

The **University of Nebraska at Omaha (UNO) Early Entry Program** allows high-achieving high school students to take college courses at UNO while still in high school. This program provides a head start on college and helps students earn university credits that **can be applied toward a UNO degree** and may transfer to other institutions.

### Why Join the Early Entry Program?

- Take **college-level courses** while in high school.
- Earn **university credit** that applies to a UNO degree and may transfer elsewhere.
- Gain experience in a college setting to prepare for the transition to university life.

### Who Can Apply?

- Students with at least a **'B' average (3.0 GPA on a 4.0 scale)** in high school coursework.
- Students approved by their **high school counselor** (or individually reviewed if homeschooled).
- Students whose first language is not English must demonstrate **English proficiency**.

### How to Apply

1. **Apply online** at [apply.early.](https://www.unomaha.edu/dual-enrollment/early-entry/) (<https://www.unomaha.edu/dual-enrollment/early-entry/>)
2. **Submit an unofficial high school transcript** with your application.

3. **Get approval online** from your high school counselor and parent/guardian.

### Important Details

- Students may take **up to two UNO classes per term**.
- A **new application is required each semester**, but no additional application fee is needed.
- After high school graduation, students who want to continue taking courses must submit an **Undergraduate Admission Application** and meet UNO's admission requirements.

## Dual Enrollment Program

The **Dual Enrollment Program** lets high-achieving high school students earn **college credit** while taking certain high school classes. These classes are taught by high school teachers who are also approved as **UNO adjunct professors**.

### How It Works

- Earn **both high school and college credit** for approved courses.
- Classes are taught at your **high school** by your teachers.
- Not all high school courses qualify—talk to your **school counselor** to see if your school participates.

For questions, contact the **UNO Early Entry/Dual Enrollment Program coordinator** at **402-554-3810** or visit the UNO Early Entry (<https://www.unomaha.edu/dual-enrollment/early-entry/>) or Dual Enrollment (<https://www.unomaha.edu/dual-enrollment/>) websites.

## Enrollment Deposit Fee

### Enrollment Deposit Fee

To finalize your admission and secure your spot in the incoming class, the University of Nebraska at Omaha requires all newly admitted and readmitted students to **pay or defer a \$100 enrollment deposit**.

### Priority Deadlines to pay your Enrollment Deposit Fee

- **Fall and Summer applicants** – May 1
- **Spring applicants** – December 1

**NOTE:** If you are admitted after the priority deadline, you may submit your enrollment deposit within **two weeks of admission** to secure your spot in the upcoming class.

### Enrollment Deposit Fee Deferral Policy

Students may request to have the \$100 enrollment deposit deferred to their **first billing cycle** by submitting a formal request. For more information, contact [unoadmissions@unomaha.edu](mailto:unoadmissions@unomaha.edu).

### Enrollment Deposit Fee Refund Policy

- If you **do not enroll** at UNO and do not request a refund by the priority deadline, your enrollment deposit will be **forfeited in full**.
- If you request a refund **by the priority deadline**, the enrollment deposit will be **fully refunded**.
- Refund requests must be submitted **in writing** to [unoadmissions@unomaha.edu](mailto:unoadmissions@unomaha.edu).

**SPECIAL NOTE:** If you **pay the enrollment deposit but do not enroll**, your deposit will remain valid for **up to one year from the original application term**. If you reapply within that time frame, the fee will be recognized as paid in full.

# International Applicants

## Applying Online

All international applicants must submit an online application at <http://www.unomaha.edu/admissions/apply/>.

## Application Fee for International Students

- **Fee Amount:** \$45.00 (U.S. dollars)
- **Payment Requirement:** The fee is mandatory. Applications **will not be processed** without payment.
- **Non-Refundable:** The fee is **non-refundable**, regardless of admission status.
- **Payment Methods:**
  - Credit card
  - Check or money order (payable to the University of Nebraska at Omaha)
- **Fee Validity:**
  - The application fee is valid for **one year**.
  - If an applicant does not enroll within a year, they must reapply and pay the fee again.
  - **Exception:** Previous UNO students or those who attended another University of Nebraska campus (**UNK, UNL, UNO, UNMC**) **are not required** to pay the fee again.

## Documentation Needed

Documents can be submitted through one of the following methods:

- **Email:** Send to [unointernational@unomaha.edu](mailto:unointernational@unomaha.edu)
- **Mavlink:** Uploaded through your MavLINK account (<http://mavlink.unomaha.edu>)
- **Mail:** Send to the following address:

**Undergraduate Admissions**  
Eppley Administration Building, Room 111  
6001 Dodge Street  
Omaha, NE 68182-0080  
USA

## Academic Records

- **All applicants must submit transcripts** from every high school, college, or university attended for admission.
- **Final official transcripts** from all institutions must be provided **within the first eight weeks of enrollment**.
- If original transcripts **are not in English, a certified translation** must be included.
- Applicants seeking to **transfer credits from a foreign college or university** to UNO must submit a **course-by-course evaluation** from a recognized member of the National Association of Credential Evaluation Services (NACES) (<https://www.naces.org/>).

## Passport Copy

Applicants must submit a **clear copy** of the **passport information page** to [unointernational@unomaha.edu](mailto:unointernational@unomaha.edu). ([unointernational@unomaha.edu](mailto:unointernational@unomaha.edu))

## Proof of English Proficiency

Applicants must demonstrate English proficiency through **one** of the following methods:

- **U.S. High School Diploma** – Must include four years of standard English classes.

- **Standardized Test Scores** – Minimum ACT English score of 20 (or SAT equivalent).
- **U.S. College Coursework:**
  - Completion of an **Associate of Arts or Associate of Science** degree (GPA 2.5+).
  - Completion of **English Composition I or II** with a grade of C or better (GPA 2.5+).
- **Citizenship** from a country on UNO's **English Proficiency Waiver List**.
- **Medium of Instruction (MOI) Letter** – If your previous school's primary language of instruction was English, an official letter must confirm that **your entire academic program was taught in English**.
- **Official test scores** (TOEFL, IELTS, or other approved tests)
  - Test scores must be sent directly from the testing agency.
  - **TOEFL** scores from other schools cannot be used.
  - **IELTS** scores can also be sent via MavLINK or emailed to [unointernational@unomaha.edu](mailto:unointernational@unomaha.edu).

## Proof of Financial Support (F-1 or J-1 Visa Students)

Applicants requiring an **F-1 or J-1 student visa** must provide **proof of financial support**.

- **Required documents:**
  - **Non-hypothetical and/or liquid funds** (i.e., **official bank statements**) signed by the student and/or sponsor, with a bank seal
  - **UNO Financial Affidavit** signed by the student and sponsor
  - **Documents must be less than six months old.**

**Submission:** financial documents can be sent via MavLINK (<http://mavlink.unomaha.edu>) or email to [unointernational@unomaha.edu](mailto:unointernational@unomaha.edu) (<http://catalog.unomaha.edu/aboutuno/undergraduate-admissions/international-applicants/unointernational@unomaha.edu>)

**Note:** Without these financial documents, **UNO cannot issue the I-20 or DS-2019 form**.

## Conditional Admission

Applicants who **do not meet** UNO's English language requirements **may qualify for conditional admission**.

## Requirements for Full Admission:

- Complete UNO's **Intensive Language Program (ILUNO)** with a qualifying score.
- ILUNO students **must** study for **at least one session**.
- Applicants with **low test scores** will be evaluated by the ILUNO Director to determine eligibility for full admission.

## Important:

- A change of status of the Form I-20 will be made upon full undergraduate admission.
- Students must request a **Form I-20 status update** once fully admitted.

## Non-Degree Seeking Student International Students (F-1 or J-1 Visa Holders)

International students may apply as **non-degree-seeking students** if they:



- Have a **permission letter** from their **current U.S. institution**, allowing part-time enrollment at UNO while maintaining their **I-20 from their home school**.
- Are **referred as part of an international exchange program** between UNO and their home institution.
- Have a **recommendation letter** from their **home institution or employer**.

For additional details, contact [unointernational@unomaha.edu](mailto:unointernational@unomaha.edu).

## International Visiting Student Program (VSP) for Non-Degree Students

Applicants who require a visa to study in the U.S. may apply for UNO's **International Visiting Student Program (VSP)**.

### Eligibility Requirements:

- Must be **currently enrolled** at a **UNO partner institution**.
- Must be **nominated** by their **home university**.
- Must follow **all application and documentation requirements** from UNO and their home university.

For further details, visit the UNO VSP (<https://www.unomaha.edu/international-studies-and-programs/global-partnerships/university-partnerships.php>) **website**.

## Health Insurance

- **All international students must enroll** in UNO's Student Health Insurance Plan, unless they have **university-approved foreign insurance**.

## Admission for International Students

- Most admission decisions are made **within one week** after all documents are received.
- If admitted, students will receive an **admission email** with their **I-20 form**.

## Receiving Your I-20

- **Form I-20 is issued only to the student** and cannot be picked up or emailed to friends, family, or third parties.
  - This policy ensures privacy and protects the student's personal information.
- **J-1 visa applicants** will receive their **DS-2019 form** along with their admission email.
- **F-1 visa holders** enrolling **part-time** at UNO **will not receive a new I-20**.

## Admission Decisions

### Admission by Review

UNO evaluates all applicants using a **holistic admissions process**. We consider more than just test scores and grades, reviewing each applicant individually to determine their potential for success.

If the Assured Admission (<https://catalog.unomaha.edu/undergraduate/admissions/admission-requirements/>) requirements are not met, the application may still be considered for **Admission by Review**. Factors such as **cumulative GPA, class rank, ACT or SAT scores, grades in**

**core courses, and other indicators of academic potential** will be evaluated.

Additional documentation may be requested. Those admitted through **Admission by Review** must agree to the terms of admission, which may include completing specific courses, using academic support services, or having academic progress monitored.

## Provisional Admission

Provisional admission means acceptance is granted while waiting for final admission documents. This applies to **high school applicants who have not yet graduated, transfer applicants currently completing coursework, and others with pending transcripts or required documents**.

Admission remains provisional until final transcripts are received and reviewed. If final coursework does not meet admission requirements, the admission offer may be revoked. All required materials must be submitted within **eight weeks of enrollment** to avoid an enrollment hold, which will prevent future course registration.

## Academic Suspension or Dismissal

Applicants who have been **academically suspended or dismissed** from any college or university in the past **academic year** are **not eligible** for admission to UNO.

If UNO receives a transcript or notification showing a recent suspension or dismissal, enrollment will be canceled, and any tuition paid will be refunded. A new application may be submitted **after one full year** from the last term of suspension.

## Deferred Admission

If admission requirements are not met, additional coursework at another institution may be required before reconsideration for admission.

## Fraudulent and Incomplete Applications

Providing **false or altered information** on an application, transcript, or any supporting document may result in serious consequences. UNO reserves the right to **revoke admission or dismiss individuals from the university** if fraudulent information is discovered.

All information submitted must be **complete and accurate** to avoid issues with admission status.

## Frequently Asked Questions Nebraska Unique Identification Number (NUID)/Password

For security purposes, all applicants receive an **NUID (Nebraska Unique Identification Number)** and a **temporary password** during the application process. A personal **MavLINK password** must be created upon initial login. The NUID is an **eight-digit number** unique to the **University of Nebraska system** and can be used across all campuses.

## Use of Social Security Number

A Social Security number is requested on the admissions application **only** for credential verification, document matching, and determination of financial aid and scholarship eligibility. Applicants without a Social

Security number may apply for admission but **are not eligible for federal financial aid**.

## Health Requirement Information

Applicants born on or after **January 1, 1957**, must provide **official proof** of receiving **two MMR (measles, mumps, and rubella) vaccinations** before registering for courses. Domestic applicants who graduated from a **U.S. high school** are exempt. For further information, contact **Undergraduate Admissions at 402.554.2393**.

## Residency for Tuition Purposes

### Residency Classification

To qualify for resident tuition rates, an individual must establish 12 consecutive months of residency in Nebraska unless an exception is outlined in the residency application form. Individuals who move to Nebraska primarily to attend college are classified as nonresidents for tuition purposes.

Enrollment in more than half-time coursework at a Nebraska post-secondary institution during the 12 months prior to applying for residency serves as strong evidence that the relocation was for educational purposes. As a result, the individual will remain classified as a nonresident.

Applicants classified as nonresidents who believe they qualify for residency should review the Application for Residence Classification for Tuition Purposes ([https://csprdn.nebraska.edu/psc/csprdn/NBX/HRMS/s/WEBLIB\\_ENTREDIR.ISCRIPT1.FieldFormula.IScript\\_Redirect?nba-product=EF&cref=NBA\\_NVC\\_DS\\_EFORM\\_RESAPP](https://csprdn.nebraska.edu/psc/csprdn/NBX/HRMS/s/WEBLIB_ENTREDIR.ISCRIPT1.FieldFormula.IScript_Redirect?nba-product=EF&cref=NBA_NVC_DS_EFORM_RESAPP)). Residency changes are **not retroactive** and apply only to the term in which approval is granted.

### Resident Tuition for Certain Non-U.S. Citizens

Under **Nebraska state law**, certain applicants who do not hold U.S. citizenship or legal residency may qualify for **resident tuition** if all of the following criteria are met:

- **Graduation from a Nebraska high school** or receipt of an equivalent diploma in Nebraska.
- **Continuous residence in Nebraska for at least three years** before high school graduation while living with a parent, guardian, or conservator.
- Submission of an **affidavit** stating intent to apply for **U.S. Permanent Residency** at the earliest opportunity.

### Omaha Urban Rate (OUR) Tuition

The **Omaha Urban Rate (OUR) Tuition** program provides significantly reduced tuition rates to eligible high school graduates and current residents from the following states:

**Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Montana, North Dakota, Ohio, South Dakota, Wisconsin, Wyoming.**

For full eligibility details and application procedures, visit the UNO OUR Tuition website (<https://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tuition-fees-and-refunds/omaha-urban-rate-our-tuition.php>).

### Nebraska State Income Tax Credit

Applicants who do not qualify for resident tuition rates but **pay Nebraska state income tax** may be eligible for a **tuition credit**. This credit extends to spouses and dependents of Nebraska taxpayers who meet eligibility requirements.

The tuition credit is based on the **amount of Nebraska state income tax paid in the prior calendar year**. However, tuition **cannot be reduced below the resident rate**.

Applications for the **Non-Resident Nebraska Income Tax Tuition Credit** are available at the **UNO Cashiering and Student Accounts Office (109 Eppley Administration Building)** and can also be downloaded from the UNO website (<https://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tax-information/>). For questions, contact **402.554.2324**.

## Veteran's Promise

Under the Nebraska Veteran Promise Act (<https://nebraskalegislature.gov/FloorDocs/107/PDF/Slip/LB669.pdf>), eligible **military service members and veterans** who meet UNO's general admission requirements are **guaranteed admission** to undergraduate programs, whether attending in person or online.

This policy aligns with the University of Nebraska Board of Regents (BOR) guidelines (<https://nebraska.edu/-/media/unca/docs/offices-and-policies/policies/board-governing-documents/board-of-regents-policies.pdf?la=en>) to ensure that Nebraska's military service members and veterans have access to higher education.

## Applicants Who Apply for Admission and Do Not Enroll

Applicants who submit an application but **do not enroll** must notify the **UNO Office of Undergraduate Admissions** via email at **unoadmissions@unomaha.edu**. Once notification is received, the application will be **withdrawn**. To enroll in a future term, a **new application is required**.

Additional considerations for non-enrolled applicants:

- Transcripts submitted for admission **will be retained for one year**. After that period, new transcripts must be provided for admission consideration.
- Applicants awarded **financial aid from a non-UNO source** must notify the **Office of Financial Support and Scholarships** to avoid cancellation or adjustment of UNO financial aid.

For all questions regarding application status, residency classification, tuition rates, or financial aid eligibility, contact the **UNO Office of Undergraduate Admissions** for assistance.



# **GRADUATE ADMISSIONS**

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**Graduate Admissions (p. 972)**

# REGISTRATION TO GRADUATION

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- **Undergraduate Graduation (p. 40)**
- **Graduate Graduation (p. 42)**

## Enrollment

### Enrollment

All persons who attend classes at the university must be admitted to the University; they are required to register and pay the established tuition and fees. The dates, times, locations, and procedures for registration are listed each semester on the Office of the University Registrar's website (<http://www.unomaha.edu/registrar/students/>).

### MavLINK

MavLINK is the online self-service application providing students with an array of information and direct access to their academic, financial, and personal data. Access to MavLINK is gained by the use of your UNO NetID or NUID and password. Access MavLINK here (<https://mavlink.nebraska.edu/psp/mavlink/NBO/HRMS/?cmd=login&languageCd=ENG&>).

### NetID

The UNO NetID is a combination of letters using your first and last name and is the username assigned to you by UNO. Learn more about NetIDs (<https://www.unomaha.edu/information-technology-services/accounts-and-passwords/NetID1/>).

### NUID

The NUID (Nebraska Unique Identifier) is a unique eight-digit number assigned to all students, faculty, and staff members during either admission or hiring. This number remains the same across the University of Nebraska and Nebraska State College system. You can look up your NUID/username, claim your account, re-activate your account, and reset your password at TrueYou Self Service (<https://trueyou.nebraska.edu/>).

## Choice of Catalog Policy

Students follow the degree requirements outlined in the catalog in effect at the time of their initial enrollment at the university. Students may request to follow all program and policy requirements from any later catalog if it better supports their academic progress and degree completion goals. Requests for catalog changes will be evaluated on a case-by-case basis to ensure compliance with institutional accreditation requirements and degree integrity and must be approved by the student's academic advisor to ensure alignment with their academic progress and institutional policies.

Students who have interrupted their enrollment must work with their advisor to determine the appropriate catalog year upon re-enrollment.

If degree requirements change during a student's academic journey, the university reserves the right to implement new policies or course substitutions, with due notice, in the interest of academic integrity and student success.

Students are responsible for understanding and fulfilling the degree requirements of their approved catalog.

## How to Enroll and Make Changes to Enrollment

All adding, swapping, dropping, or withdrawing from courses is completed in MavLINK.

## Adding a Class

A class can be added to a student's schedule via MavLINK until the 100% refund period ends. Start dates are found on the class schedule. Refund dates can be found on the Cashiering and Student Accounts (<http://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tuition-fees-and-refunds/tuition-refund-schedule.php>) site. Late adds begin after the 100% refund period ends and require permission from the instructor prior to enrollment in MavLINK. **A \$25.00 Late Registration Fee** will be assessed to those students whose initial enrollment takes place after the start of the session. Exceptions to this are thesis, internship, or independent study.

## Dropping/Withdrawing From a Class

A class can be dropped or withdrawn from a student's schedule via MavLINK up until the last day to withdraw. The last day to withdraw can be found on the Academic Calendar (<http://www.unomaha.edu/registrar/academic-calendar.php>). Students can also contact the Office of the University Registrar to verify the last day to withdraw. Requests to drop a class submitted via email, fax or U.S. mail will be processed based on the dates appearing on the email, fax or U.S. mail postmark.

Drops can only be completed in the 100% refund period of your course. If students drop the course from their schedule during this period, it will not be listed on their academic transcript.

Withdraws can be completed up until the last day to withdraw for the semester. The last day to withdraw can be found on the Academic Calendar (<http://www.unomaha.edu/registrar/academic-calendar.php>). If students withdraw from a course, a grade of "W" will be listed on their academic transcript. "W" grades have no impact on the academic GPA.

Students who drop or withdraw from one or more classes, or who completely withdraw from all courses will be obligated to UNO for the portion of tuition indicated on the refund schedule. Students who completely withdraw are also obligated to pay the non-refundable portion of tuition and fees for the class(es) from which they are withdrawing. Students who

are currently enrolled can click on the "refund" link next to each class in their schedule inside MavLINK to check refund percentage dates.

## Swapping a Class

Swapping a class allows students to save their space in the original class while trying to enroll for a new course. It is a safer way to make changes to their existing class schedule during periods in which many other students are also enrolling for their classes.

1. Swaps must be done on the same day.
2. Swaps are allowed during the first week of the standard semester. For classes that are outside the regular session, it will be necessary to contact the Office of the University Registrar to complete a swap.
3. Swaps are only allowed for classes in the same session.
4. Classes used for swaps cannot be used again for another swap.

## Permission Numbers

A permission number must be entered for any courses that require instructor or department consent. A Permission Number is entered via MavLINK. A permission number may also override any prerequisite or GPA requirement, as well as a closed course. A permission number will NOT override a time conflict. The instructor or advisor must request a time conflict override through the Office of the University Registrar on the student's behalf.

A permission number must be entered for any courses that require instructor or department consent. A Permission Number is entered via MavLINK. A permission number may also override any prerequisite or GPA requirement, as well as a closed course. A permission number will NOT override a time conflict. The instructor or advisor must request a time conflict override through the Office of the University Registrar on the student's behalf.

Receiving a permission number does not register the student for the course. It only means that students are able to proceed with enrollment for the course. Once the permission number is issued, the student must register via MavLINK for the course by using the number provided.

Permission numbers are BOTH course section and term specific. The student must ensure the permission is issued for the exact course he/she wants. The student will NOT be able to register for a different section of the same course. For example, if a permission number is issued for ENGL 1160-003, they will not be able to register for ENGL 1160-006. A new number will need to be issued for the student by their advisor or department contact. Remember, permission numbers can only be used once.

Permission numbers not used before the end of the 100% refund period will expire. A new number will need to be issued to enroll after the 100% refund period.

## Registration Waitlist

A registration waitlist is an electronic process that auto-enrolls students in closed classes as seats become available. Waitlists operate on a first-come, first-served basis, so this process ensures that students who register for the waitlist sooner have a better chance of getting into a closed course. Waitlists are only available once the class is full. For high-demand classes, this may be the first day of registration or, for other classes, as late as the week before the term starts.

Waitlisted classes do not count toward a student's enrolled hours. If a student's financial aid requires full-time enrollment, he/she needs be sure to enroll in enough credits without counting waitlisted classes. Each department is responsible for determining if their class offerings should have a waitlist or not.

For courses with no waitlist available, students will need to check regularly for possible openings. Students may add themselves to any number of waitlists but will not be enrolled beyond the maximum number of hours allowed for that term. Students may remove themselves from a waitlist by following the same process as dropping a class. Learn more about the Registration Waitlist (<http://www.unomaha.edu/registrar/students/during-enrollment/registration-waitlist.php>).

## Audit Registration Policies and Procedures

All persons wishing to audit a course must be admitted and eligible to enroll in classes for the term in question. Students may only register to audit a course on or after the first day of the semester. Audit students may not participate in recitation, turn in papers, or take examinations. Academic credit is not awarded for audited courses nor do they apply in counting hours for full- or half-time status. Foreign language and physical education activity courses cannot be taken on an audit basis. Audit registration is subject to available class space, requires the written permission of the instructor, and can be done via email or in person at the Office of the University Registrar, 105 Eppley Administration Building. Audit tuition is one-half of the applicable resident undergraduate or graduate tuition rate. The half-price tuition rate for audit courses is available only during the first week of the semester. Audit enrollments are assessed the same student fees as credit enrollments. Likewise, audits are refunded at the same rate as credit enrollments.

Students who register to take a course for credit and change to audit after the first week of class will be required to pay the full applicable tuition rate.

## Undergraduate Students Taking Graduate Classes

An undergraduate junior or senior who is pursuing a baccalaureate degree at the university may be granted permission to take one or more graduate courses if they meet the following conditions outlined below. Students pursuing Fast Track (previously known as integrated programs) will not complete this form.

1. No credit earned under this provision may be used to fulfill any of the requirements for the undergraduate degree.
2. A maximum of 12 credit hours at UNO may be earned under this provision.
3. Juniors must have a minimum average GPA of 3.5 in the undergraduate major, and seniors must have a minimum average GPA of 3.0 in the undergraduate major.
4. The student must secure the required Department/School Representative signature before presenting the form to the Graduate College.
5. In order to register for the course(s) noted on the form, the student must return to the department/school for a permit number after receiving the dean for graduate studies permission. Once a permit number has been provided by the department/school, the student will then be able to register via MavLINK.

Please find the form on the Graduate Studies Student Forms & Resources (<https://www.unomaha.edu/graduate-studies/current-students/graduate-forms-and-resources.php>) webpage.

The graduate program determines after admission if graduate credits taken as an undergraduate student will fulfill the requirements of a graduate program. There is no guarantee that graduate credits taken as an undergraduate student will count toward a graduate program.

## Class Schedule

The UNO public class search is available online at [www.unomaha.edu/class-search/index.php](http://www.unomaha.edu/class-search/index.php) (<http://www.unomaha.edu/class-search/>). Course offerings are subject to change. Final authority for changes in course offerings rests with academic departments. For questions concerning course offerings, contact the academic department. For general information about enrollment or instructions on how to use MavLINK, visit the Office of the University Registrar's Enrollment page at: <https://www.unomaha.edu/registrar/students/after-enrollment/adding-swapping-dropping-or-withdrawing-from-a-course.php>

## Student Attendance Policy

Classes are conducted on the premise that regular attendance is desirable. The individual instructor has responsibility for managing student attendance and for communicating at the beginning of each semester those class attendance policies which prevail in that course.

UNO Student Attendance Policy <https://www.unomaha.edu/campus-policies/student-attendance.php>

## Student Holds

A hold can be placed on a student's record for reasons including but not limited to:

- Non-payment of debt (tuition payments, parking tickets, library fines, etc.)
- Academic suspension
- Failure to meet immunization requirements
- Required academic advising
- Missing admission information
- Non-compliance with other university regulations/obligations

A hold on the record can impact one or more of the following:

- Enrollment – ability to register for classes (Dropping and withdrawing from classes will need to be completed in person at the Office of the University Registrar.)
- Receiving a transcript or diploma
- Refund from Student Accounts

## Athletic Certification

The Athletic Certification Office is responsible for obtaining, evaluating, and documenting the academic credentials in accordance with the National Collegiate Athletic Association (NCAA) and conference eligibility rules for approximately 300 student-athletes.

The NCAA has specified satisfactory progress requirements to determine the eligibility of continuing student-athletes, and these requirements must be met each semester. The Athletic Certification Office, housed in the Office of the University Registrar, works directly with academic advisors and the Athletics Department Academics and Compliances offices to determine athletic eligibility for each semester.

The Athletic Certification Office is also responsible for financial aid certification. This includes maintaining the accuracy of the aid package, processing the approved Athletic Grant-In-Aid scholarships, and posting all financial aid data into MavLINK and both financial aid and academic eligibility data into the NCAA's CAi software program.

## Civil Leave (Statutory Leave)

When a student receives a written notice to provide mandated community service as an election official, juror or witness, he or she must notify the course instructor of the time when the service will be required, within five business days after notice of mandated service is received by the student

(or at the start of the semester if notice is received prior to the semester). A copy of the notice must be provided to the instructor.

The instructor will allow the student summoned to mandatory community service an excused absence from the course on the day(s) required for Statutory Leave.

Upon request of the student taking leave, the instructor will ask for another class member to take notes during the period of Statutory Leave.

If Statutory Leave occurs during a critical period in the course (e.g. an exam; in-class graded assignment; group project; participation-required day), the instructor will work with the summoned student to determine if the missed day(s) will likely have a negative impact on the student's grade and whether the assignment or exam can be accommodated at a later time.

If Statutory Leave causes an extensive loss of class time for the student or will likely negatively impact the student's grade or learning experience, the instructor and student will determine whether it is best for the student to receive a grade of Incomplete or Withdrawal for the course.

If a grade of Incomplete is chosen, the instructor and student will formally document the procedure required to complete the course.

If a grade of Withdrawal is chosen, the student should receive a prorated refund of tuition and fees paid for the course.

## Student Called into Military Service

Executive Memorandum No. 23

### 1. GENERAL

This Policy shall be implemented in order that the University of Nebraska might provide equitable, consistent treatment to its students who are called into military service and to facilitate their ability to continue their education once that military service is completed.

### 2. ELIGIBILITY

Students who are regularly enrolled in any class or program offered by the University of Nebraska are eligible for the benefits described in this Policy, if they: (a) belong to a military unit that is called into active duty, or (b) are drafted and not eligible for deferment; such that the date upon which they are required to report to active duty prohibits them, as a practical matter, from completing the term in which they are enrolled.

### 3. COURSE AND GRADE OPTIONS

An eligible student may elect to cancel registration in all classes in which he or she is enrolled at the time the call for duty is received. In such case, the student shall receive a full refund for all tuition and student fees paid on behalf of that student. In the alternative, the student may request his or her instructors to award a grade or an incomplete for all classes. If an incomplete is given, then the instructor shall file in the student's educational records and provide to the student specific instructions regarding the study and activities required to complete the course. If a grade and credit are awarded, then the instructor shall award a grade reflective of the student's performance, taking into consideration the quantity and nature of the curriculum through the time of the student's departure. Finally, the student shall have the option of withdrawing from selected courses, receiving a pro-rated refund of tuition and fees for those courses, while also opting to receive a grade or incomplete in other courses in which the student is enrolled.

### 4. STUDENTS RECEIVING FINANCIAL AID

Notwithstanding any provision to the contrary in this Policy, administration of financial aid with respect to any eligible student shall be consistent with federal and state law. Students otherwise

eligible for these benefits and receiving financial aid should immediately contact the financial aid office on their respective campuses, where each case must be addressed individually based upon the particular rules applicable to the relevant student. The campus financial aid offices shall address these matters in such a way so as to minimize the financial hardships to the student, while complying with the applicable law and regulations.

#### 5. PUBLICATION

This Policy shall appear in all student catalogs and placed on the websites of Central Administration and each Campus.

#### 6. SYSTEM APPLICATION

This Policy applies to all administrative units of the University of Nebraska. Each campus may provide supplemental policy guidance, consistent with this Policy, designed to implement the provisions herein, including guidance relating to fees associated with meals and housing, textbooks, parking, lab and course fees, as well as other ancillary fees.

Dated this 17th day of October, 2001.

## Undergraduate Registration Requirements

### Undergraduate Registration Requirements

Prior to the start of classes each session, students must register for courses according to instructions published on the University of Nebraska at Omaha (UNO) website. To be eligible to register, a new or re-admitted student (one who has not enrolled during the previous two years) must have completed all admission requirements. Prior to registering, a student should seek assistance from an academic advisor within his/her college. Some colleges and departments require advising prior to registering. Every student is encouraged to review the requirements for his/her intended degree with an assigned academic advisor. This review should be scheduled in preparation for and prior to each registration period.

Students who have outstanding debts or fees owed to the University of Nebraska System will not be permitted to register until these obligations have been met. Academically suspended students will serve a one-year suspension. Following this suspension period, these students will need to schedule an advising/reinstatement meeting with the College from which they were suspended in order to have their reinstatement hold released and be eligible to register for classes. If academically suspended students have not taken classes within the last two years, they will need to reapply to UNO first and then schedule their advising/reinstatement meeting.

Due to limited facilities and staff, the university cannot guarantee all students will be able to enroll for every course they wish in each semester.

## Undergraduate Class Standing

A student's academic classification is determined by the number of semester hours of academic credit earned.

| Academic Classification | Range in Semester Hours |
|-------------------------|-------------------------|
| Freshman                | 0 through 26            |
| Sophomore               | 27 through 57           |
| Junior                  | 58 through 90           |
| Senior                  | 91 or above             |

## Undergraduate Student Academic Course Load

1. A normal student load is 12 to 18 credit hours.

**2. Full-Time** Undergraduate students must be enrolled for a minimum of 12 credit hours in a fall semester, spring semester, or summer term to be considered a full-time student.

**Half-Time** Undergraduate students must be enrolled for a minimum of 6 credit hours in a fall semester, spring semester, or summer term to be considered a half-time student.

3. Students shall not carry 18 or more semester hours of work during the fall semester, 19 or more semester hours during the spring semester and 12 semester hours during the summer sessions unless they have maintained an average of "B" (3.0) in a regular 15-hour load during the preceding semester. Permission to register for additional semester should be obtained from the student's academic advisor.

4. Audit hours do not apply in counting hours for full-time status.

## Undergraduate Students Declaring and Changing a Major

Undergraduate students are strongly encouraged to identify major areas of study in conjunction with their academic advisors early in their academic career. In order for an undergraduate student to make a change to the declared major or minor program of study, he/she will need to speak to the department that houses the program.

An appointment with an academic advisor may be required and is suggested in order to review requirements. Once a student has decided to make the change official, the academic advisor will submit a Change of Program eForm in MavLINK on their behalf. This eForm will route to any necessary approvers for review before being processed by the Office of the University Registrar. The student and submitting advisor will receive email notifications once the change has been processed.

## Undergraduate Transfer Credit

### Transfer Credit Policies and Procedures

- Credits submitted only on official transcripts from other colleges or universities will be evaluated for admission to an undergraduate college by the Office of Admissions. Transcripts will become a part of the student's permanent record maintained in the Office of the University Registrar. Transfer hours (and hours not accepted for transfer) from another institution are included in the overall GPA when determining honors for graduation. Final determination of transfer credit acceptance is ultimately made by an academic advisor in the student's area of study.
- In general, credits and grades earned at other University of Nebraska campuses will be accepted, computed into the student's grade point average, and will become a part of the permanent record from which official transcripts will be made.
- Only college-level courses with a grade of "C-" or better, CR (Credit), S (Satisfactory), and P (Pass) will be accepted for transfer from regionally accredited two- and four-year colleges and universities. (*The College of Business Administration requires a grade of "C" or better for transfer.*)
- Sixty-four (64) semester credit hours is the maximum allowed for transfer to most undergraduate UNO colleges from regionally accredited two-year colleges. The College of Engineering will allow a maximum of sixty-six (66) semester hours of credit.
- All credit hours transferable are converted to semester credit hours (e.g., one-quarter hour equals 2/3 of a semester credit).

- Each UNO college has a required number of credit hours to be completed at UNO prior to graduation.
- Students wishing to transfer credits from recognized institutions outside the United States may need to provide a course syllabus and catalog for evaluation of transfer credits.
- Accepting Credit from Non-accredited Institutions: The student's degree college within the University of Nebraska at Omaha has the ultimate responsibility for determining how all credit, including transfer credit, will apply to a specific degree program. This is on a course by course and case by case basis.

## Transfer Articulation Guide

The Transfer Articulation Guide is a tool students can use to see how coursework from other colleges and universities typically transfers to the University of Nebraska at Omaha (UNO). The information is provided only as a guide and should be considered unofficial. Final determination of transfer credit acceptance is ultimately made by an academic advisor in the student's area of study. View the articulation guide (<https://www.unomaha.edu/registrar/students/before-you-enroll/transfer-credit/transfer-guide.php>).

## Change of Campus

A Change of Campus application will need to be completed for any student who is attending or has attended one of the four campuses of the University of Nebraska System within the last five years and is applying for admission as a degree-seeking student at a new **NU** campus. A new application for admission will need to be completed to the new campus. Learn more about the Change of Campus application (<https://csprdn.unomaha.edu/psp/csprdn/NBX/HRMS/?cmd=login>).

## Intercampus

An Intercampus application will need to be completed for students planning to attend a new Nebraska System Campus on a temporary/visiting basis, with the intention of returning to their current/home campus. Students should complete the Intercampus application on this website ([https://csprdn.unomaha.edu/psc/csprdn/NBX/SA/s/WEBLIB\\_PTBR.ISCRIPT1.FieldFormula.IScript\\_StartPage/?ghcmd=saml](https://csprdn.unomaha.edu/psc/csprdn/NBX/SA/s/WEBLIB_PTBR.ISCRIPT1.FieldFormula.IScript_StartPage/?ghcmd=saml)). Intercampus is for one term of enrollment only.

## General Education Transfer Policy

Students admitted to UNO with a Bachelors degree from a regionally accredited institution will have fulfilled UNO's general education requirements. Such students must still complete any general education requirements specified within their specific program of study, and any required prerequisites or other requirements stated in UNO's Undergraduate Catalog.

Students admitted to UNO with an Associate of Arts (AA) or Associate of Science (AS) degree from a regionally accredited institution will have fulfilled UNO's lower division general education requirements. Such students must still complete any upper division general education requirements, general education requirements specified within their specific program of study, and any required prerequisites or other requirements stated in UNO's Undergraduate Catalog.

## Advanced Placement Credit

The Advanced Placement Program is based on the belief that many students are capable of completing college-level courses while still in high school. With this belief in mind, the College Entrance Examination Board assists high schools in planning such courses and provides examinations for them.

The University of Nebraska at Omaha (UNO) participates in the Advanced Placement (AP) program of the College Entrance Examination Board

(CEEB). Advanced Placement credit is based on criterion examination(s) administered by CEEB.

Students should contact their college advisor regarding the application of these credits to their academic program. Students must have official copies of their scores submitted to the Office of Undergraduate Admissions by College Board in order for credit to be awarded. To obtain copies of official grade reports, you can contact College Board directly at 888.CALL.4.AP.

The Office of University Registrar manages the Advanced Placement Program (<http://www.unomaha.edu/registrar/students/before-you-enroll/transfer-credit/advanced-placement-credit.php>) at UNO.

## American Council on Education (ACE) Credit

Acceptance of transfer credit from American Council on Education (ACE) evaluated courses will be determined on a case-by-case basis by the individual academic unit/College in which the student is majoring.

## College Level Examination Program

The University of Nebraska at Omaha (UNO) grants college credit for specific College Level Examination Program (CLEP) Exams with an acceptable score.

CLEP exams are given by appointment in the UNO Testing Center. Learn more about UNO CLEP exams and how UNO grants credit (<http://www.unomaha.edu/registrar/students/before-you-enroll/transfer-credit/clep-credit.php>).

## DANTES Subject Standardized Tests (DSST)

The DANTES Subject Standardized Tests (DSST) is an effective method to provide your college with evidence of prior learning

Learn more about DSST here. (<https://www.unomaha.edu/registrar/students/before-you-enroll/transfer-credit/dsst.php>)

## Credit by Department

Credit by Department allows students the opportunity to gain academic credit for prior learning they have acquired by self-study or experience. Tests may be taken in many subject areas, and credit may be earned by achieving acceptable scores on these tests. Departments may also establish other ways than an exam for a student to show proficiency and earn academic credit. Contact the Department to see what opportunities exist. Benefits include saving tuition dollars and shortening the time it takes to earn a degree.

Learn more about Credit by Department here. (<https://www.unomaha.edu/enrollment-management/testing-center/credit-by-examination/challenge-exam.php>)

## Military Credit

Students must submit official transcripts to UNO to have military credit considered for evaluation:

- Army, Coast Guard, Navy and Marine service members, reservists, guard and veterans can request the Joint Services Transcript.
- Air Force Active Duty, Guard and Reservists or retired or separated Air Force Members may request transcripts from the Community College of the Air Force (<http://www.airuniversity.af.mil/Barnes/CCAF/>).



Military Credit will be evaluated by the student's advisor in the college upon admission.

## Retroactive Credit

Retroactive Credit in English, Spanish, French, German, and Calculus is available for eligible students, based on specific criteria and processes, outlined in each of the departmental links below. A common required criteria of all departments is the successful completion of specified higher level coursework at UNO in the relevant subject.

Please see the links below and contact the specific department(s) for more information.

- Department of English Retroactive Credit Information (<http://www.unomaha.edu/college-of-arts-and-sciences/english/first-year-writing/retroactive-credit.php>)
- Department of World Languages Retroactive Credit Information (<https://www.unomaha.edu/college-of-arts-and-sciences/world-languages-and-literature/academics/retroactive-credit.php>)
- Department of Mathematics Retroactive Credit Information ([https://www.unomaha.edu/college-of-arts-and-sciences/mathematics/\\_files/docs/retroactive-credit-math-form.pdf](https://www.unomaha.edu/college-of-arts-and-sciences/mathematics/_files/docs/retroactive-credit-math-form.pdf))

Information on how to request eligible retroactive credits, once listed criteria have been met, is outlined within each of the above links.

## International Baccalaureate

The International Baccalaureate (IB) program is a comprehensive and rigorous curriculum leading to exams for students aged between 16 and 19. Students who participate in this program enroll in specially designed courses through their high school and take international exams in May.

- The University of Nebraska at Omaha (UNO) cooperates with the International Baccalaureate Program (IB) in its curriculum and examinations program.
- The results of the IB scores are furnished to UNO at the request of the student.
- The number of earned credits a student will receive at UNO will be determined by the performance in the IB course and the score received on the exam.
- To earn transfer credit, a score of five (5) or higher, in most exams, is required.
- Credit will be granted for both the Standard Level (SL) and the Higher Level (HL) scores.

More detailed information can be found on the International Baccalaureate website (<https://www.ibo.org/>).

Learn more about how UNO accepts International Baccalaureate (<http://www.unomaha.edu/registrar/students/before-you-enroll/transfer-credit/international-baccalaureate-program.php>) exams.

## Cambridge International

The Cambridge International (CI) Program is a curriculum leading to exams that reward students for their engagement in this rigorous college preparatory exam. High school students can take AS & A Level courses and exams to potentially earn college credit or advanced placement. Students who participate in this program enroll in specially designed courses through their high school and take international exams in June or November. Cambridge International A Level is typically a two-year course, and Cambridge International AS Level is typically one year.

- The University of Nebraska at Omaha proposes cooperation with the Cambridge International Program in its curriculum and examinations.

- The results of the CI scores will be furnished to UNO at the request of the student.
- The number of earned credits a student will receive at UNO will be determined by the performance in the CI course and the score received on the exam.
- Credit will be granted for the Exam in coordination with the specific department reviewing the request.

More detailed information can be found on the Cambridge International (<https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-advanced/>) website.

## Graduate Registration Requirements

### Graduate Registration Requirements

Learn more about registration requirements here (p. 975).

## Graduate Academic Program Requirements

- **Master's, EdS, and Certificate Programs (p. 976)**
- **Doctoral Program Committee and Course Plan (p. 978)**

## Course Information

### Course Numbering System

The system of course numbers is arranged to indicate the level of instruction. The first figure in each number designates the group to which a course belongs:

| Numbering | Description                            |
|-----------|--|
| 1000-1990 | Courses open primarily to freshmen     |
| 2000-2990 | Courses open primarily to sophomores   |
| 3000-3990 | Courses open primarily to juniors      |
| 4000-4990 | Courses open primarily to seniors      |
| 8000-9990 | Courses open only to graduate students |

From time to time courses may be added or dropped from a curriculum. All courses listed in this catalog cannot be offered each semester. Some departments indicate which semester the course is normally offered. While the departments will attempt to follow the guidelines established for periods of course offerings, there is no guarantee the course will be offered during the semester indicated. Furthermore, students cannot be guaranteed placement in a course offered during a particular semester.

## Explanation of Credit Course Numbers

Courses available for graduate credit are those which have been approved by the UNO graduate faculty or its designee. Students will not be allowed to upgrade or retake courses previously taken for undergraduate credit so

that they can be used for any purpose where graduate credit is required. Undergraduate courses cannot be used toward a graduate degree.

## Dual-listed Courses

Dual-listed courses are courses open to both undergraduate and graduate students. There are two types of dual-listed courses:

1. Courses numbered at the 3000 level which are dual listed with courses starting with the number eight (8) and ending with a five (5) – (3xxx/8xx5).
  - a. No more than two (3xxx/8xx5) courses are allowed on a master's degree plan of study.
2. Courses numbered at the 4000 level which are dual listed with courses starting with the number eight (8) and ending with a six (6) – (4xxx/8xx6).

It is expected that students enrolled for graduate credit will do work at a higher level than that which is expected of undergraduate students in the same course.

## Graduate-only Courses

Courses numbered with an eight (8) or nine (9) and ending with a zero (0) – (8xx0 or 9xx0) – are normally restricted to graduate students only. At least one-half the hours of course work on a plan of study must be in courses normally restricted to graduate students only.

With special permission from the dean for graduate studies, exceptional juniors and seniors may enroll in graduate courses.

Courses numbered (8xxx or 9xx1) are normally for advanced master's and doctoral-level students. If taken at the master's level, the course cannot be taken again at the doctoral level.

## Credit/No Credit Option for Courses Offered for Graduate Credit (p. 976)

### Credit Hour Definition Federal Definition

The University of Nebraska at Omaha (UNO) uses the federal definition<sup>1</sup> of a credit hour, which states:

A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally-established equivalency that reasonably approximates not less than:

1. One hour<sup>2</sup> of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately 15 weeks;
2. Or at least an equivalent amount of work as required in paragraph (1) of this definition for other activities as established by an institution, including laboratory work, internships, practica, studio work and other academic work leading toward the awarding of credit hours.

### Hour Definition

One credit hour is equivalent to one hour (50 minutes minimum) of lecture and two (2) hours of out-of-class work each week. For all standard 15-week semesters of instruction, and for non-standard (condensed) and online courses the following contact times (minimums) are assigned for every one (1) credit hour based upon the specific type of learning activity:

- Synchronous Classroom: one hour of contact time and two hours of out-of-class work for each week of instruction

- Laboratory: two to four hours of contact time for each week of instruction
- Research/Field Work/Internships/Practica: two to four hours of contact time for each week of instruction
- Clinical: two to four hours of contact time for each week of instruction
- Simulation: two to four hours of contact time for each week of instruction
- Other Activities: three hours of contact time for each week of instruction (Exam time can be considered part of contact time if an instructor chooses to count time spent on assessment as part of contact time)
- Asynchronous Education (e.g., Online or Distance Learning): three hours of student work for each week. Student work includes reading, research, online discussion, instruction, and assigned group activities, preparation of papers or presentations, and exams.
- Hybrid Classes (combination of synchronous and asynchronous education): Combination of face-to-face and assigned student work (see asynchronous) equivalent to three hours for each week.
- Non-standard semesters (e.g., eight week; five week, etc): Contact hours will be equivalent to the contact time established for the standard 15-week semester.

## Process

Credit hours for all UNO for-credit courses are established as part of the course development and approval process. The process begins with the departments/schools and then approval by the appropriate college(s) educational policy committee and dean. The University Educational Policy Advisory Committee (EPAC) is the final approval of the number of credit hours for all courses, regardless of mode of delivery. Credit hours are determined by course content/required student work that does not vary by mode of delivery. The determination/assignment of credit hours reflects the educational outcome of the course and the time required for a typical student to achieve the course's desired outcomes. Any changes in credit hours for a course (reduction or increase) is considered a substantial change to the course that requires an updated master syllabus to reflect the change in content and approval by the University Educational Policy Advisory Committee.

<sup>1</sup> Electronic Code of Federal Regulations

<sup>2</sup> A class hour at the University of Nebraska at Omaha is typically 50 minutes

## Course Components

- **Activity** - Instructor-facilitated course generally focused on "learning by doing" with significant student/instructor interaction. Musical or dance groups or fitness-related courses often are assigned this course component.
- **Cooperative Education** - Course includes alternating periods of instructor-supported classroom learning and paid work experience directly related to the student's field of study. (May be eligible as variable credit)
- **Discussion** - A regularly scheduled section of a larger course, designed for activities such as group discussion, demonstrations or case studies. Discussions do not carry credit and are not stand alone courses. They are linked to a credit bearing course. Discussion sections generally contain fewer students than the course to which they are linked.
- **Dissertation** - Course is taken as part of a student's individual research project, generally in preparation for a written presentation of research results and required for completion of a specific degree program or special distinction in that program. (May be eligible as variable credit).



- **Ensemble** - Course is facilitated by the instructor and generally focused on significant small group or individual student/instructor interaction. Musical groups often are assigned this course component. (May be eligible as variable credit).
- **Field Experience** - Field experiences are generally required as part of an academic program such as counseling, psychology, or education. (May be eligible as variable credit)
- **Independent Study** - Course is designed to meet the needs of an individual student and may include individualized instruction or directed readings. (May be eligible as variable credit)
- **Internship** - Course includes work experiences related to a student's major or career goal. The internship typically involves a student working in a professional setting under the supervision of practicing professionals. (May be eligible as variable credit)
- **Laboratory** - Course is a classroom session(s) associated with a credit bearing course, often a lecture, which requires separate enrollment. Students participate in hands-on experiments or activities that illustrate or augment the material presented in the corresponding lecture or in their program overall.
- **Lecture** - Course is instructor-led course and may include interactive pedagogy to engage students but is primarily guided by the instructor.
- **Lecture/Lab** - A class that contains an integrated lecture and some hands-on components but does not require a separate meeting time like a traditional lab. The lecture/lab (combo) is scheduled like a lecture.
- **Master's Thesis** - Course hours are taken as part of a student's individual research project, generally in preparation for a written presentation of research results and required for completion of a specific degree program or special distinction in that program. (May be eligible as variable credit)
- **Practicum** - Course hours are practical, supervised training designed to supplement formal study. Students learn practical applications of classroom material and gain skills and knowledge relevant to their course of study. (May be eligible as variable credit)
- **Research** - Course is research directed all, or in part, by student(s) with instructor supervision. (May be eligible as variable credit)
- **Studio** - Course is instructor led and generally focused on significant small group or individual student/instructor interaction. Music or Art courses often are assigned this course component. (May be eligible as variable credit).
- **Seminar** - Course is instructor led with a small number of students collectively exploring a topic or field of study, and may be directed all, or in part, by the enrolled students.

## Course Prerequisites

Course prerequisites are automatically met based on previous coursework completed while at UNO or through transfer credit as determined by the student's advisor.

If the attempted enrollment results in an error indicating that prerequisites have not been met, students must contact their academic advisor or college advising office.

If a student is allowed to enroll without the necessary prerequisites, a permission number must be issued by the academic advisor or the department and entered into MavLINK during the enrollment process.

Course prerequisites can be found by viewing the online catalog, or by logging into MavLINK, selecting "Class Search" and clicking on the title of a course listed.

## Course Syllabus

Students should receive, or have access to, the course syllabus with basic information about the course, including textbooks required, assignments, evaluation protocols, and the basic schedule.

Course syllabi are aligned with the master syllabus, but provide specific information for a particular semester and instructor. Master syllabi are on file with the university and are used for accreditation purposes. Contact your instructor or the department chair/school director for a copy of the master syllabus. Review Board of Regents Bylaw 5.3 about Academic Evaluation which can be found in the Statement of Student Rights and Responsibilities section in this catalog.

## Academic Calendar

**Academic Calendar website**  
(<https://www.unomaha.edu/registrar/academic-calendar.php>)

## The Academic Year

Typically, an academic year consists of the fall and spring semesters, each consisting of approximately 15 weeks. The unit of instruction is the semester hour. Learn more about the Credit Hour Definition (<https://www.unomaha.edu/registrar/faculty-and-staff/class-schedule/credit-hour-definition.php>).

## Prep Week Policy

The last week of regularly scheduled classes during fall and spring semesters is designated as Prep Week. Except for makeup examinations, tests in self-paced courses, or laboratory exams, no major examination accounting for more than 20% of a student's grade may be given during this period. Papers, projects or presentations assigned at least two weeks in advance of Prep Week may be due during this period.

No final exams are to be given during this period as final exams must be offered during Final Exam week at the time assigned by the Registrar.

<https://www.unomaha.edu/campus-policies/prep-week.php>

## Final Exams

The last week of fall and spring semesters is designated as Final Examination Week. Instructors of totally online classes should arrange their final exams during Final Exam Week. Instructors of partially online classes should contact the Office of the University Registrar to find an on-campus exam location if necessary. Exams for summer or special session courses will be held on the last meeting day of the course.

Students should check the Final Exam schedule (<https://www.unomaha.edu/registrar/students/after-enrollment/final-exam.php>) at the beginning of each semester. Finals exam days and times may vary from the regular class days/times. If there are conflicts with the scheduled exams, students should contact their instructor early in the semester to resolve the conflict.

## Grades

### Grading Scale

Grades are determined by the daily record of the student and the record made on quizzes, mid-semester and semester examinations. The weight

attached to each of these factors is determined solely by the instructor of the course.

The grading system is as follows:

| Symbol | Definition  | Quality Points |
|--------|---|----------------|
| A+     | outstanding   | 4.0            |
| A      | outstanding   | 4.0            |
| A-     | outstanding   | 3.67           |
| B+     | proficient  | 3.33           |
| B      | proficient  | 3.00           |
| B-     | proficient  | 2.67           |
| C+     | satisfactory  | 2.33           |
| C      | satisfactory  | 2.00           |
| C-     | satisfactory  | 1.67           |
| D+     | below standard  | 1.33           |
| D      | below standard  | 1.00           |
| D-     | below standard  | .67            |
| F      | failing   | 0              |
| CR     | credit  | *              |
| NC     | no-credit, failing  | *              |
| NR     | no grade reported   | *              |
| S      | satisfactory: Grade of "C" or better for graduate "D" or better for undergraduate   | *              |
| U      | unsatisfactory, failing   | *              |
| AU     | audit   | *              |
| I      | incomplete: Follow rules listed in catalog; cannot be changed to "IP;" can be extended by one semester by instructor request to Registrar.                            | *              |
| IP     | course in progress: Used for thesis, independent study, research project, or other arranged course; applies to both graduate and undergraduate; remains indefinitely. | *              |
| W      | withdrew (good standing)  | *              |
| R      | repeated course   | *              |

\* - not used in calculating grade point averages

## Undergraduate Incompletes

To receive an "incomplete," students must contact their professor prior to the end of the semester, request a grade of incomplete, and make arrangements to complete the work. The rules which govern the issuance of the incomplete are as follows:

1. The grade "I" is used by an instructor at the end of a semester or summer session to designate incomplete work in a course. It is given when a student, due to circumstances such as illness, military service, hardship or death in the immediate family, is unable to complete the requirements of the course in the term in which the student is registered for credit. Incompletes will only be given if the student has already substantially completed the major requirements of the course.
2. Each instructor will judge each situation. The instructor will also indicate by a departmental record, with a copy to the student, how the

incomplete is to be removed, and if the instructor is at the University at the time of removal, supervise the makeup work and report the permanent grade.

3. In the event the instructor is not available at the time of the student's application for removal of an incomplete, the department chairperson will supervise the removal of the incomplete and turn in the permanent grade for the student.
4. A student shall have no longer than the end of the next regular semester following receipt of the "I" to remove the incomplete. After that time, the "I" will automatically become a "W," or such other grade specified by the instructor depending on the amount and quality of the course work previously completed. Exceptions to this rule will be permitted if initiated by the student and approved by the instructor, department chairperson, and dean. Exceptions to this rule will be made only in response to circumstances over which the student has no control, and these must be detailed.
5. In registering for courses, students receiving one or more "I" grades from the previous semester should take into account the time needed to complete the required work and plan their schedules accordingly.
6. Courses with Incompletes do not count towards credit hours in future semester's when determining enrollment status.

## Graduate Incompletes (p. 980) Undergraduate Credit/No-Credit (CR-NC)

For information on Credit/No Credit Grades and Rules Governing Credit/No Credit, visit the Credit/No Credit Policy website (<https://www.unomaha.edu/registrar/students/grading-grades/credit-no-credit-option.php>).

## Grade Appeals

Each program/college has an official grade appeal process. Students should contact the department/school or dean's office to receive a copy of the policy. Students should appeal the grade to the department/school/college in which the course was offered.

## Repeating Courses – UNO Policy on Grades Undergraduate Courses

When an undergraduate course is repeated, only the most recent grade will be calculated into the GPA.

- Letter-graded courses must be repeated for a letter grade.
- ALL courses and grades will continue to be a part of the student's permanent record (transcript).
- When determining eligibility for graduation with honors, every grade awarded is computed into the GPA.
- Repeats must be completed before a degree is granted. Once a degree is granted, repeated courses will not change the GPA established at the time the degree was awarded.
- Students may replace grades earned at another University of Nebraska system campus if the articulated equivalent course is taken at UNO. Students should consult with an advisor prior to enrolling in courses at UNO to ensure that the direct equivalent course is taken. Upon completion of the course, either the student or the advisor must contact the Office of the University Registrar, 105 Eppley Administration Building, to have the previous grade removed from the GPA.

## Undergraduate Courses - Special Exceptions

Some courses, such as thesis, internship, physical activity, special topics, or independent study may be repeated without removing the previous grade. Visit the repeatable courses website (<https://www.unomaha.edu/registrar/>)

students/during-enrollment/repeatable-courses.php) for a complete list of these courses. For these undergraduate courses, only grades of F will be removed automatically when these courses are repeated. All other repeats must be done by contacting the Office of the University Registrar, 105 Eppley Administration Building.

## Graduate Courses - General Rule

Only grades of Cs, Ds, and F can be repeated, and only the most recent grade will be counted into the GPA.

- Letter-graded courses must be repeated for a letter grade.
- All courses and grades will continue to be a part of the student's permanent record (transcript).
- Repeats must be completed before a degree is granted. Once a degree is granted, repeated courses will not change the GPA established at the time the degree was awarded.

## Graduate Courses - Special Exceptions

For courses such as thesis, internship or independent study, repeats are subject to the same rules as listed above under General Rule. Repeats in this category cannot be done automatically. Students must contact the Office of the University Registrar, 105 Eppley Administration Building.

## Undergraduate Grade Point Average (GPA) UNO GPA

The GPA included on the student's transcript reflects courses taken only in the University of Nebraska System (UNO, UNL, UNMC and UNK).

## Undergraduate Degrees with Honors GPA

Grades awarded in ALL courses taken at ALL colleges and universities attended are included in computing the GPA for determining eligibility for graduation honors. This cumulative GPA takes into account a student's complete academic history, including course repeats.

## Undergraduate No Report "NR" Grades

If a No Report "NR" grade is reflected on a grade report, the student should immediately report it to the faculty member. A grade of "NR" is not a terminal grade and must be changed to the appropriate letter grade.

## Undergraduate Academic Amnesty

Each college has established a policy and procedures for students who wish to declare academic amnesty for one or more semesters. Students should read the Academic Amnesty policy for their college in this catalog or contact their Dean's Office. Students who declare Academic Amnesty are not eligible to graduate with honors. Academic Amnesty can only be applied to the student's educational record one time.

## Undergraduate Academic Performance

A student must maintain a cumulative Grade Point Average (GPA) of 2.00 or above to remain in "good academic standing" at the university. However, the colleges may require a higher grade point average.

For purposes of participation in recognized extracurricular activities, "good academic standing" is defined as a cumulative GPA of at least 1.75 for the first 45 hours attempted and at least 2.00 for 46 or more hours attempted, including all college-level courses taken for credit at the University of Nebraska.

## Undergraduate Probation and Suspension Academic Probation

A student whose cumulative grade point average is below 2.00 after having attempted six or more semester hours will be placed on probation.

Probationary status will remain in effect as long as the student's cumulative Grade Point Average (GPA) remains below 2.00. No student will be allowed to enroll for any course on a pass/fail or Credit/No-Credit basis while on probation. Probation constitutes a period of formal warning that the student is doing unsatisfactory work.

The student is encouraged to use every opportunity during time on probation to seek counsel and guidance from various university agencies which have been established to offer assistance in study and academic planning. For information on such services, the student should consult with his or her academic advisor or counselor.

## Academic Suspension

Students will only be suspended at the end of the spring term. This rule applies to all UNO colleges, including the Academic and Career Development Center and all University of Nebraska-Lincoln based programs in the Colleges of Architecture, Agriculture, and Engineering.

Students who are on probation will be suspended at the end of the spring semester when their semester Grade Point Average is lower than 2.0 and the cumulative Grade Point Average (GPA) falls below the following standards:

| Hours Attempted | Cumulative GPA |
|-----------------|----------------|
| 0-12            | No Suspension  |
| 13-45           | 1.75           |
| 46 or more      | 2.00           |

Suspensions under these conditions will be automatic. Academic suspension will be for a minimum period of one year.

Students will be notified by their primary academic college of their suspension and given instructions on how to appeal, should they choose to do so, and any appropriate deadlines associated with an appeal.

Appeals properly filed shall delay implementation of the suspension until the appropriate appeals committee has acted. However, if the appeal is denied the student shall be dis-enrolled and tuition shall be refunded.

## Undergraduate Reinstatement Following Academic Suspension

Students wishing to be reinstated following their one-year suspension from the University of Nebraska at Omaha shall schedule an advising/reinstatement meeting with the College from which the student was suspended. It is recommended the student schedule an advising/reinstatement meeting at least one month prior to the official beginning of the semester or term for which the student is applying (refer to academic calendar for specific dates) in order to have their reinstatement hold released and be eligible to register for classes. If academically suspended students have not taken classes within the last two years, they will need to reapply to UNO first and then schedule their advising/reinstatement meeting.

## Undergraduate Academic Honors

Full-Time Dean's List and Part-Time Dean's List

Students seeking their first bachelor's degree are eligible for this academic honor. Students must earn a minimum of 12 quality hours with a minimum Grade Point Average (GPA) of 3.50 in a given fall or spring semester for full-time students, and consecutive fall or spring semesters for part-time students. These academic honors are not offered during the summer term. Part-time students whose honors are considered on a continuous enrollment will have summer hours included in their calculations for Dean's List. Dean's Lists are posted to the academic record only during the fall and spring semesters. Contact UNO's Office of the University Registrar, 105 Eppley Administration Building, with any questions.

## Full-Time Chancellor's List and Part-Time Chancellor's List

Students seeking their first bachelor's degree are eligible for this academic honor. Students must earn a minimum of 12 quality hours with a minimum Grade Point Average (GPA) of 4.0 in a given fall or spring semester for full-time students, and consecutive fall or spring semesters for part-time students. These academic honors are not offered during the summer term. Students earning the Chancellor's List honor will also earn the corresponding full-time or part-time Dean's List honor. Contact UNO's Office of the University Registrar, 105 Eppley Administration Building, with any questions.

## How to View Official Grades

Students can view grades via MavLINK immediately after they are posted by the instructor. Official Grades are available in MavLINK under the Academics tab or on the Unofficial Transcript. Final grade reports are not mailed out to students nor can grades be provided over the phone.

## Repeating a Graduate Course (p. 980)

## Official Academic Transcripts

Transcripts contain academic information such as coursework, grades, credit hours, Grade Point Average, and UNO degrees earned.

Before an official transcript can be released, certain administrative obligations to the University of Nebraska System must be resolved. Holds can be viewed through MavLINK.

UNO transcript requests can only be completed online. Requests made via phone, email, or fax are not accepted. Transcripts can be ordered by students via MavLINK.

Learn more about ordering your transcripts online (<https://www.unomaha.edu/registrar/students/transcripts-and-records/order-a-transcript.php>).

## Graduate Quality of Work Standards (p. 981)

## Graduate Academic Appeals (p. 982)

## Undergraduate Graduation

## 120-Hour Requirement for Undergraduate Degree

The number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. See Degree Completion Guarantee below.

## Bachelor's

An undergraduate degree awarded by a college or university upon successful completion of a program of study. Common degree types include bachelor of arts (B.A. or A.B.), and bachelor of science (B.S.). A bachelor's is required before starting graduate studies.

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## Major

A program of courses that meets the requirements for a degree in a particular field of study.

- Majors consist of a minimum of 30 hours of undergraduate or graduate coursework;
  - Majors are discipline and content specific with a coherent plan of study;
  - (Ensure that the program of study follows the appropriate undergraduate or graduate academic guidelines)
  - Majors have limited overlap with other majors;
  - Majors provide both depth and breadth within a specific-content area; and
  - Majors are not printed on diplomas, but recognized on transcripts.
- 

## Concentrations

Are a subset of a major with a limited number of hours required in a focused area.

- Concentrations generally consist of 12-18 undergraduate credit hours or at least 9 graduate credit hours. The BMS concentrations have 30 hours of coursework;
  - Concentrations share a core set of requirements for the major;
  - Concentrations may overlap with other concentrations within a major;
  - Concentrations have some distinct or unique requirements that differentiate from other concentrations or within the major; and
  - Concentrations are recognized on transcripts.
- 

## Minors

A program of study requiring fewer courses than a major. Some majors require a minor and other majors do not require a minor.

- Minors generally consist of 15-18 hours of undergraduate coursework, must include 9 hours as 3000 level or higher, or 9 hours of graduate coursework;
  - Minors provide an opportunity for a secondary set of skills and knowledge in addition to a major;
  - Minors cover an area outside of the major; and
  - Minors are recognized on transcripts.
- 

## Certificates

- Certificates generally consist of 12-18 hours of coursework;
  - (Ensure that the program of study follows the appropriate undergraduate or graduate academic guidelines)
  - Certificates provide an opportunity for a recognized specific set of skills and knowledge;
  - With departmental approval, the certificate coursework may be applied to a graduate or undergraduate degree program; and
  - Certificates provide an independent or professional credential that is awarded in addition to, or independently from, a graduate or undergraduate degree.
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## Degree Completion Guarantee Board of Regents Resolution

The four-year guarantee for undergraduate graduation is the University of Nebraska's promise, to those students who so desire, to do our part to support your academic journey and completion of an undergraduate degree within four years. While every student's path is different, degree plans support students who are planning to complete their degree in four years, as well as support students who prefer their own flexible schedule.

For those students looking to complete a degree within four years, it is, of course, critical to have appropriate high school preparation, pursue a course of study that is intended for four-year completion and follow these prudent practices:

- Select a major early (by your third semester) in college and stay with that major.
- Fulfill the bachelor's degree requirements\* and general studies requirements as outlined in the academic catalog.
- Follow the four-year course of study plan published by your major and pass all required courses on the first attempt (no deficient grades as defined by your major).
- Meet with your advisor every semester and respond promptly to all communications from academic advisors, the registrar, and Advising and Career Services staff.
- Sign up for classes during each semester's priority period.
- Register for and complete at least 15 credit hours per semester for eight semesters with acceptable grades.
- When a required course is not available, notify the department chair in a timely fashion (one week).
- Not be subject to any disciplinary action per the Student Code of Conduct during your time as a student that restricts your academic progress.
- Apply for graduation by the deadline.

In turn, the university guarantees the student will be able to enroll in courses that permit graduation in four years. If that is not possible, the university will provide alternatives or substitutions. If a student fulfills the requirements detailed above and isn't able to graduate in four years, the University of Nebraska will cover 100% of tuition for any additional course(s) needed to graduate. Of course, not all students are in a position or desire to graduate in four years. Some may need or prefer to engage in experiential or service-learning opportunities, represent their school on a collegiate team, or work more hours and attend school part-time, or they may be enrolled in a program that requires more than four years. Others may choose a different pace or the opportunity to take a wider range of courses that are not directly related to their field of study. Additionally, those students seeking dual degrees or multiple majors may need more time to complete their work. This program is designed for those who want to complete their degree program as quickly as possible.

The Four-Year (<https://nebraska.edu/offices-policies/provosts-office/academic-affairs/graduation-guarantees/>) Graduation Guarantee (<https://nebraska.edu/offices-policies/provosts-office/academic-affairs/graduation-guarantees/>) was approved by the University of Nebraska Board of Regents in 2002. The program recognizes the importance of Nebraska undergraduate students being able to earn their bachelor's or first-professional degrees in timely fashion.

\* Unless specified by an accreditor and approved by the Provost, the Board of Regents requires that University of Nebraska undergraduate programs be completed in 120 credit hours.

## Process of Declaring Additional Majors

A student wanting to declare an additional major must first check with the department of the desired major to determine if it is allowed, then the student's advisor must complete a Change of Program eForm within

MavLINK, which will route to the necessary approvers before it is processed by the Office of the University Registrar. The student and submitting advisor will receive an email notification once the change is processed.

## Combined Major Degree

- **Structure:** A combined major integrates courses from two different disciplines into a single program. The curriculum is designed so students take key courses from both areas, but the total number of required credits is usually less than the sum of taking both majors separately.
- **Degree:** Students earn one degree with a title that reflects the combination of both fields (e.g., Bachelor of Arts in Philosophy and Political Science).
- **Focus:** The program focuses on interdisciplinary education, encouraging students to see the connections between the two fields.
- **Duration:** This degree is 120 credit hours with 27 credit hours from one discipline, 27 credit hours from the second discipline, and 3 hours of interdisciplinary credit. Accredited programs may require more credits.
- **Flexibility:** The student can study two disciplines that are intentionally connected.

## Double Major Degree

- **Structure:** A double major involves completing the requirements for two distinct majors within the same degree. Students take all required courses for both majors, but they graduate with one degree. The student designates the primary major follows all requirements for that degree and adds the secondary major from any college.
- **Degree:** Students earn one degree with two majors listed at the time of completion.
- **Focus:** Allows students to gain substantial knowledge and skills in two separate disciplines.
- **Duration:** Typically, this can be completed within the standard four-year timeframe for a bachelor's degree, although it may require careful planning and potentially a heavier course load.
- **Flexibility:** The student can select from a broader range of electives and specialized courses within each major.

## Undergraduate Dual Degrees

- **Structure:** For UNO to award a dual degree, a student needs to meet all the college requirements for both degrees.
- **Degrees:** The University awards dual degrees to students who are earning different degrees. For example, it is possible for a student to be awarded both a Bachelor of Science (BS) degree with a major in Biology and a Bachelor of Science in Education (BSED) degree with a major in Elementary Education since these are two separate degrees.
- **Focus:** Students may want to focus on two degree areas that complement each other but are not available as a one degree double major. This option allows for both degrees to be awarded at the time of degree completion.
- **Duration:** This structure allows students to complete more than one degree at the same level and therefore usually requires additional credits and possibly different college-level requirements.
- **Flexibility:** The student can combine any offered degrees for this option.

## Candidacy for a Second Baccalaureate Degree

A student who has met the requirements for a baccalaureate degree at the University of Nebraska at Omaha may earn additional, different baccalaureate degrees by completing a minimum of 30 additional semester hours at the University for each additional degree, and by also satisfying all degree requirements for each degree. At the undergraduate level, each degree earned must be unique.



A plan of study for the additional hours, approved by the department head primarily concerned, must be filed in the Office of the Dean of the College offering the degree by the completion of the fifteenth (15<sup>th</sup>) additional hour. Students must consult an academic advisor prior to starting this program. Two baccalaureate degrees may be awarded simultaneously when the student becomes eligible to receive them.

## Application for Degrees

Every student working toward a degree or certificate program at UNO, must apply for their degree in order to receive degree conferral and their diploma. All applications for degree must be filed via MavLINK. Deadlines can be found on the Academic Calendar (<https://www.unomaha.edu/registrar/academic-calendar.php>). Directions and guidelines on completing this process can be found on the Registrar website at <http://registrar.unomaha.edu/graduate.php>.

All requirements for graduation must be completed and certification by the appropriate College must be on file in the Office of the University Registrar no later than the close of business on the fifteenth (15<sup>th</sup>) working day, following the last day of finals for a particular semester. This includes the satisfaction of all grades of Incomplete.

### Outstanding Debts and Fees Owed to the University

Diplomas and official transcripts will not be released for students who have outstanding debts or fees owed to the University of Nebraska System. The student is responsible for contacting the Office of Cashiering and Student Accounts at the respective campus to make arrangements to clear his/her account.

## Degrees with Honors

The baccalaureate degrees with honors are awarded as follows:

- Cum laude: Have a scholastic average for their entire undergraduate career of 3.51 or above, but below 3.63
- Magna cum laude: Have a scholastic average for their entire undergraduate career of 3.63 or above, but below 3.87
- Summa cum laude: Have a scholastic average for their entire undergraduate career of 3.87 or above

To qualify for honors, a student must have earned at least 60 semester hours within the University of Nebraska system, 30 hours of which must be completed at the University of Nebraska at Omaha and in which letter grades of "A," "B," "C," or "D" are received.

Students who declare Academic Amnesty are not eligible to graduate with honors.

Grades awarded in all courses taken at all colleges and universities attended are included in computing the Grade Point Average (GPA) for determining eligibility for honors. It should be noted that the GPA included on the UNO transcript reflects only courses taken at UNO, UNL, UNMC, and UNK.

### Degrees with Honors Extra Muros

These degrees are awarded to transfer students who have not completed the required 60 semester hours of credit within the University of Nebraska system required for cum laude, magna cum laude, or summa cum laude honors.

To be eligible for Honors Extra Muros the transfer students must meet both the following standards and requirements:

- Have a minimum of 24 graded credit hours from UNO
- Have a minimum of 77 graded credit hours

If those requirements have been met, baccalaureate degrees with Honors Extra Muros are awarded as follows:

- Cum laude: Have a scholastic average for their entire undergraduate career of 3.51 or above, but below 3.63
- Magna cum laude: Have a scholastic average for their entire undergraduate career of 3.63 or above, but below 3.87
- Summa cum laude: Have a scholastic average for their entire undergraduate career of 3.87 or above

## Attendance at Commencement

Two commencement ceremonies are held at the University of Nebraska at Omaha during the academic year. The two ceremonies are held in May (Spring) and December (Fall). Academic regalia is required for degree candidates to participate in the ceremony. Students not wearing academic regalia will not be permitted to participate in the ceremony.

## Graduate Graduation

Learn more about Graduate Graduation here (p. 985).

# FINANCING YOUR EDUCATION

- **Office of Financial Support and Scholarships (p. 43)**
- **Federal Financial Aid Policies (p. 43)**

## Office of Financial Support and Scholarships

### Office of Financial Support and Scholarships

The Office of Financial Support and Scholarships is committed to making higher education accessible by minimizing financial barriers for students so they may realize their educational goals. We strive to provide services of the highest quality to support the academic mission and goals of the university and its students.

For information about the various forms of scholarships, grants, work-study and loans, and how to apply:

Office of Financial Support and Scholarships

103 Eppley Administration Building

Omaha, NE, 68182

402.554.2327

<https://www.unomaha.edu/admissions/financial-support-and-scholarships/types-of-aid/scholarships/index.php> (<https://www.unomaha.edu/admissions/financial-support-and-scholarships/types-of-aid/scholarships/>)

## Federal Financial Aid Policies

### Treatment of Title IV Aid When a Student Withdraws

#### Return of Funds Policy for Title IV Aid Recipients Who Withdraw

The Higher Education Amendments of 1998, as well as the program integrity regulations in 2010, established provisions which may require a certain percentage of federal financial aid (Title IV funds) to be returned to the Department of Education when a student completely withdraws from all classes. When a student is considered to have withdrawn, the University is required to determine the amount of earned and unearned Title IV aid.

Federal financial aid funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws from all courses for any reason – including medical withdrawals – the student may no longer be eligible for the full amount of Title IV funds that they were originally scheduled to receive. If a student has received Title IV financial aid, a refund must be calculated under the Federal Return of Title IV Funds policy. The refunds are based on the number of days attended for the semester, divided by the total number of days in the semester (minus any scheduled breaks of at least five days in length). Funds are deposited back to the financial aid accounts in accordance with federal regulations.

There are three types of withdrawals that fall under the return to Title IV (R2T4) federal calculation regulations:

1. **Official Withdrawals** – student withdraws from all courses through MavLINK or contacts the Office of the University Registrar to initiate an official withdrawal.
2. **Unofficial Withdrawal** – If a student began attendance and has not officially withdrawn fails to earn a grade in at least one course offered over an entire period, the institution must assume, for Title IV purposes, that the student has unofficially withdrawn. UNO grading policy requires faculty to differentiate between two different types of failing grades – either an F (earned failing grade awarded to students who complete the course but fail to achieve the course objectives; and an FW grade (awarded to students who did not officially withdraw from the course, but who failed to participate in course activities through the end of the term). For FW grades, faculty report the last date a student last participated in any academically related activity. This date then becomes the basis for the withdrawal calculation. Therefore, a student cannot avoid the federally required return of Title IV Financial Aid by stopping out of classes but remaining enrolled and taking failing marks.
3. **Modular Withdrawals** – A student does not complete all modules the student was scheduled to attend (modules are classes that do not span an entire semester).
4. If a student is enrolled in a standard, term-based program offered in modules and ceases attendance at any point prior to completing the payment period or period of enrollment, unless the school obtains written confirmation from the student at the time of the withdrawal that he or she will attend a module that begins later in the same payment period or period of enrollment, the student is considered a withdrawal for Title IV purposes.
5. If written confirmation of future attendance is received from the student but the student does not return as scheduled, the student is considered to have withdrawn from the payment period or period of enrollment and the student's withdrawal date and the total number of calendar days in the payment period or period of enrollment would be the withdrawal date and total number of calendar days that would have applied if the student had not provided written confirmation of future attendance.

#### How a Withdraw from Class or School Affects Financial Aid

Though your aid is posted to your account at the start of each period, you earn the funds as you complete the period. If you withdraw during your payment period or period of enrollment, the amount of Title IV program assistance that you have earned up to that point is determined by a specific formula. If you received (or your school or parent received on your behalf) less assistance than the amount that you earned, you may be able to receive those additional funds. If you received more assistance than you earned, the excess funds must be returned by the school and/or you.

#### How "Earned" Financial Aid is Calculated

The amount of assistance that you have earned is determined on a pro rata basis. This calculation must be completed within 30 days of the date the school determines that the student has withdrawn. The school is required to return any unearned funds within 45 days. The calculation is completed by the Office of Financial Support and Scholarships. For example, if you completed 25% of your payment period or period of enrollment, you earn 25% of the assistance you were originally scheduled to receive. That means that 75% of the disbursed aid is considered to be "unearned" and must be returned to the federal government. The total number of days used in the calculation will exclude any scheduled breaks of 5 or more days.

Once you have completed more than 60% of the payment period or period of enrollment, you earn all the assistance that you were scheduled to receive for that period.

**IMPORTANT:** You may receive a partial cancellation of your tuition and fees because of your withdraw. UNO's refund policy is separate from the federal regulations on repayment of unearned aid. It is possible that financial aid



will not cover a student's balance following the return of funds calculation – even after the tuition and fees cancellation policy has been applied.

#### What Happens When a Student Fails to Begin Attendance?

Federal regulations require that a procedure be in place to know whether a student has begun attendance in all classes for purposes of the Federal Pell Grant Program. Instructors will be contacted to verify attendance for all Pell Grant recipients if they withdraw from class. The Pell Grant will be recalculated based on the student's enrollment status to reflect only those classes for which the student actually began attendance. Instructors will also be contacted to verify attendance for Federal Direct Loan recipients if they withdraw from all classes. If a student does not begin attendance in any class in the loan period they will lose eligibility and the Federal Direct Loan will be canceled.

#### Student Notification of Results of Calculation

Upon completion of the Return of Title IV Funds calculation, students will receive notification indicating the amount of aid that will be returned. UNO will return the required funds on the student's behalf to the appropriate federal program(s) by charging the student's account. Students will be able to view the return and any resulting account balance on MavLINK after the return of funds has been processed. The student is responsible for all charges resulting from a Return of Title IV calculation.

#### Which Funds are Subject to the Return of Funds Calculation?

The Title IV funds that are covered by this law, in order of their required return are:

1. Unsubsidized Direct Loans
2. Subsidized Direct Loans
3. Direct PLUS Loan
4. Federal Pell Grant
5. Federal Supplemental Educational Opportunity Grant (FSEOG)
6. Federal TEACH Grant
7. Federal Iraq Afghanistan Service Grant

#### Post-Withdrawal Disbursements

If a student has accepted Title IV, HEA financial aid by the date of the withdrawal, but the financial aid has not disbursed, the student may be eligible for a post-withdrawal disbursement. If the amount disbursed to the student is less than the amount the student earned, and for which the student is otherwise eligible, he or she is eligible to receive a post-withdrawal disbursement for the earned aid that was not received.

Under these circumstances, a R2T4 calculation must be performed to determine whether the student is actually eligible for a post-withdrawal disbursement. If your post-withdrawal disbursement includes loan funds, the University must get your permission before it can disburse them. You may choose to decline some or all of the loan funds so that you don't incur additional debt. The University may automatically use all or a portion of your post-withdrawal disbursement of grant funds for tuition, fees, and room and board charges (as contracted with the school). The University needs your permission to use the post-withdrawal grant disbursement for all other school charges.

Students will be notified of post-withdrawal disbursement eligibility within 30 days of the date of withdrawal determination. The school must return the Title IV funds within 45 days of the date the school determines the student withdrew.

## **Return of Title IV Funds Procedure**

When a student officially, or unofficially withdraws (i.e. quits attending class), during the first 60 percent of the semester, and has received or was eligible to receive federal Title IV funds, the Office of Financial Support and Scholarships is required to perform a Return of Title IV funds calculation.

Each semester the Office of Financial Support and Scholarships will review those students who have received, or could have received Title IV assistance, and who have officially withdrawn from all classes.

Additional students who must also be considered are those who have not formally withdrawn, but have stopped attending classes (unofficial withdrawals). UNO grading policy requires faculty to report the last date a student who failed a class participated in any academic activity. Each semester an "All F" report will be run to determine students who have not officially withdrawn, but instead have unofficially withdrawn from all of their classes.

The calculation steps are as follows:

**Step One:** Establish the withdrawal date and determine how much Title IV aid was earned by the student. The percentage of enrollment period completed by the student is calculated by dividing the number of days a student attended by the total number of days in the semester (percent of aid earned), and then multiplying that percentage by the total amount of Title IV aid disbursed, or could have been disbursed.

**Step Two:** Determine the Title IV aid to be disbursed to student. If the student received less Title IV aid than earned from step one, a post-withdrawal disbursement may be made. This situation may occur in a case where federal aid was approved, or a loan certified, but not yet disbursed before the student withdrew.

**Step Three:** Determine the amount of unearned Title IV aid that must be returned by UNO. UNO must return the lesser of the amount of Title IV aid which the student does not earn, or the amount of institutional charges the student incurred for the semester multiplied by the percentage of Title IV aid not earned. Title IV funds that have to be returned by the school will result in a university obligation to the student. The student will receive a bill from the Cashiering and Student Accounts Office.

**Step Four:** Determine the amount of unearned Title IV aid to be returned by student. Any federal grant and federal loan funds that are calculated to be returned by the student will be returned by the school so a federal overpayment situation does not result and will be included in the amount billed in step three. The balance of any loan not paid by the school will go into repayment in accordance with the terms of the promissory note.

An aid recipient should contact the Office of Financial Support and Scholarships prior to withdrawal from the University. Upon request, the Office of Financial Support and Scholarships will provide written examples of various return of funds calculations.

Below is an example of the Return of Title IV Funds calculation.

| <b><u>Title IV Return of Funds</u></b> | <b><u>Amount</u></b> |
|--|----------------------|
| Institutional Charges                  | \$5,000              |
| Title IV Loans                         | \$2,000              |
| Title IV Grants                        | \$1,000              |
| <b>Total Title IV aid</b>              | <b>\$3,000</b>       |

Student withdrew on 29th day of a 116-day enrollment period.

Percent Earned  $29/116 = 25\%$

Percent Unearned  $100\% - 25\% = 75\%$

Amount of Title IV aid unearned  $\$3,000 \times 75\% = \$2,250$

UNO is responsible for returning the lesser of unearned Title IV aid (\$2,250 from above) or unearned institutional charges ( $\$5,000 \times 75\% = \$3,750$ ). UNO will return aid as follows:

- Title IV Loans \$2,000
- Title IV Grants \$250

Aid the student must personally return - student's aid is returned on his/her behalf by the school and therefore becomes part of the bill that must be repaid to the school. The balance of student's loan not paid by the school will go into repayment in accordance with the terms of the promissory note.

## Standards of Satisfactory Academic Progress

Federal regulations require a student to maintain satisfactory academic progress in the course of study he/she is pursuing in order to receive federal financial assistance. The Satisfactory Academic Progress Policy standards are applied consistently within all institutionally-defined categories of students (undergraduate, master's and doctoral level students) and enrollment levels (full-time and part-time), regardless of whether the student previously received financial aid.

In order to comply with these regulations, the University of Nebraska at Omaha has established the following Satisfactory Academic Progress (SAP) policy.

### Satisfactory Academic Progress Requirements

Satisfactory Academic Progress standards are reviewed annually after the final posting of Spring semester grades and apply to a student's entire academic record. Students returning to UNO following a withdrawal or dismissal will be evaluated upon receipt of the electronic FAFSA Submission Summary. To maintain eligibility, you must meet the following criteria:

1. **Grade Point Average (GPA) Standard** You must be in "good academic standing" at UNO. For undergraduates, this is defined as having an earned UNO cumulative GPA of at least 2.00. For graduate students, this is defined as having an earned UNO cumulative GPA of at least 3.00.
2. **Pace of Progression** You must have successfully completed ("D" grade or higher) at least 67% of the total credit hours which you have attempted at UNO, plus any transfer hours accepted from other schools, upon completion of the Spring semester.
  - Grades of Failing (**F**); No-Credit (**NC**); No Report (**NR**); Unsatisfactory (**U**); Incomplete (**I**); In Progress (**IP**); Audit (**AU**); and Withdraw (**W**); are considered **unsuccessful** completion of credit hours attempted. A grade of Failing (F) is used in calculating grade point averages.
3. **Maximum Time to Degree Completion** Undergraduate student must complete degree requirements within 180 attempted credit hours, master's degree students must complete degree requirements within 70 credit hours at the graduate level and doctoral students must complete degree requirements within 125 credit hours. For this requirement, students will be suspended from financial aid eligibility the semester following the semester their attempted hours exceed their limit.

Attempted hours include both hours attempted at UNO **and** any transfer hours accepted from other schools you have attended. All credit hours for repeated courses will be included in the attempted hours calculation. Also, if the number of credit hours you still need to graduate, in addition to the number of hours you have already attempted exceeds the maximum attempted hour total above, your aid eligibility will be cancelled.

A course retaken beyond the first retake of a previously **passed** course **cannot** be included in the credit hour total when determining the total number of hours for disbursement of aid. "W" grades are not considered in this retake calculation, even though they are considered in the completion rate calculation in #2 above.

### Please be aware of how each of the following affect your GPA and Pace of Progression

**Impact of earning an incomplete grade:** An incomplete course counts as credit hours attempted but will not count as credit hours completed/earned until a passing grade has been assigned. An incomplete grade such as a withdrawn course can negatively affect a student's Pace and financial aid eligibility.

**Impact of withdrawing from a course:** Withdrawing from a course counts as credit hours attempted but will not count as credit hours completed/earned. A withdrawn course can negatively affect a student's Pace and financial aid eligibility.

**Impact of repeating courses on GPA and Pace of Progression:** Repeating a course counts as attempted credit hours for each time the course is taken. If credit is earned (repeats as well), it will also count as completed/earned credit hours in Pace and Maximum Time to Degree Completion calculations. However, a course retaken beyond the first retake of a previously **passed** course **cannot** be included in the credit hour total when determining the total number of hours for disbursement of aid.

**Impact of transfer credits on GPA and Pace of Progression:** only transfer credits accepted by UNO will be counted as both attempted and completed hours.

## Reinstatement of Eligibility

Students who do not meet one or more of the SAP standards are no longer eligible to receive federal student aid and will be notified by email. Financial aid programs include, but are not limited to, all federal grants, loans and work-study, state grants, and most University of Nebraska at Omaha need-based grants and scholarships.

If you have incurred circumstances such as a death of a close family member, serious illness or injury to yourself, or other serious extenuating circumstances that you feel have significantly contributed to your academic situation, you may appeal the Grade Point Average Standard or Pace of Progression. **Appeals will not be allowed for maximum credit hour issues or multiple retake issues.**

#### Appeal Procedures:

1. All appeals are completed via your To-Do List in MavLINK.
2. The appeal must provide a **full explanation** of why the standards were not originally met, and what changes students have made to ensure all SAP standards will be met in future semesters. Supporting documentation is required and can be uploaded via MavLINK after you submit the appeal.
3. No more than **three** appeals will be allowed per student for his/her entire academic career at UNO.
4. Appeals and supporting documentation must be submitted by the following deadlines: Fall semester by October 1st, Spring semester by March 1st, and Summer semester by July 1st.

#### Possible Appeal Outcomes:

1. **Appeal Denied:** If your appeal is denied, you will receive an email notification as to what steps you can take, if any, to regain aid eligibility.
2. **SAP Probation:** Financial aid eligibility is reinstated for **one semester only**, with the expectation that all SAP standards will be met after that semester. Upon review, if all SAP standards are not met in this timeframe, students will then become ineligible for aid.
3. **SAP Academic Plan:** In cases where an appeal is approved, but it is not possible to meet all SAP standards in one semester, you will be prescribed an individualized academic plan. You will remain aid eligible as long as you continue to meet the plan requirements. If you cease to

meet the plan criteria before you meet the minimum SAP standards, you will become ineligible for aid.

ALL APPEAL DETERMINATIONS BY THE OFFICE OF FINANCIAL SUPPORT & SCHOLARSHIPS ARE FINAL.

## **Veteran Standards of Progress Policy**

A veteran and/or eligible person must make satisfactory progress toward an approved educational objective. Standard of Progress will be determined utilizing the Satisfactory Academic Progress policy as listed in the college catalog consisting of overall grade point average, pace, program length, maximum time for completion, attendance and/or conduct.

## **Veterans Benefits and Transition Act of 2018 Policy for Veteran Students Utilizing VA GI Bill® Education Benefits**

Consistent with the Veterans Benefits and Transition Act of 2018, Section 3679 of title 38, United States Code, Section 103, University of Nebraska at Omaha will not impose any penalties due to the delayed disbursement of a payment by the U.S. Department of Veteran Affairs on recipients of Chapter 31 and Chapter 33 VA Benefits. University of Nebraska at Omaha will permit any covered individual to attend or participate in the course of education during the period beginning on the date on which the individual provides University of Nebraska at Omaha a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33, and ending on the earlier of the following dates: 1) The date on which payment from the VA is made to the institution or 2) 90 days after the date the institution certified tuition and fees following the receipt of the COE (Certificate of Eligibility).

Additionally, University of Nebraska at Omaha will not require that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to University of Nebraska at Omaha due to the delayed disbursement of funding from the Department of Veterans Affairs under chapter 31 or 33. A Covered Individual is any individual who is entitled to educational assistance under chapter 31, Vocational Rehabilitation, or chapter 33, Post 9/11 GI Bill® benefits, and has been verified by the school certifying official as benefit eligible. This requirement is limited to the portion of funds paid by VA.

"GI Bill®" is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at [www.va.gov/education](http://www.va.gov/education). (<http://www.va.gov/education/>)

# TUITION AND FEES

- **Tuition and Fees (p. 47)**
- **Residency for Tuition Purposes (p. 48)**

## Tuition and Fees

### Tuition, Fees, Refunds, and Deposits Deadlines

Tuition and fees for the fall and spring semesters are payable in full on Sept. 23 (fall semester) and Feb. 23 (spring semester). Please see the schedule below for approximate billing dates and due dates. Each time a student fails to meet a payment due date, a Late Payment Fee (<https://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tuition-fees-and-refunds/late-payment-fees.php>) will be assessed to the tuition account. Note: Failure to receive the billing notice will not excuse the student from payment responsibility, nor the late payment penalties. Students may review their tuition and fees account using MavLINK or on Cashiering and Student Accounts website (<http://cashiering.unomaha.edu/>).

UNO accepts major credit cards for payment of tuition and fees online only. Credit card payments may be made via MavLINK and are subject to a 2.95% convenience fee on domestic credit cards and 4.25% on international credit cards. Payments by check, cashier's check, or money order may be mailed to the Cashiering and Student Accounts Office, 109 Eppley Administration Building, 6001 Dodge Street, Omaha, NE 68182. When mailing, please use the remittance form on the tuition and fees statement.

Payments of cash, check, money order, or cashier's check may also be brought to the Cashiering and Student Accounts Office during regular business hours or deposited in the after-hours drop box located outside of the office.

### Fall Semester

- For students who register March through the first week of the semester:

Bill Date: end of August

Tuition Due: Sept. 23

### Spring Semester

- For students who register November through the first week of the semester:

Bill Date: end of January

Tuition Due: Feb. 23

### Summer Sessions

Students will be billed at the end of each month through July for their summer registrations. Tuition and fees will be due and payable in full by the 23rd of each month.

Students who fail to pay tuition and fees by the due date will be assessed a Late Payment Fee.

Failure to make payment on an account will prohibit registration for future semesters. If an account remains unpaid, it may be forwarded to a collection agency.

Students waiting until after the initial due date for payment of tuition and fees to register or add courses will be required to pay the late registration fee and the late payment fees retroactively.

The university reserves the right to change the amount of tuition or fees at any time and to assess charges for laboratory/special instructional fees, breakage, lost property, fines, penalties, parking, books, supplies, food or special services not listed in this schedule

## Application Fee

The application fee is payable at the time the application for admission form is filed. This fee is non-refundable and does not apply toward tuition or any other fee. Residency for the purpose of assessing tuition is determined by the status of the applicant at the time the application for admission is filed. The undergraduate application fee is not applicable toward the graduate application fee and vice versa.

### Undergraduate Application Fee

| Fee             | Fee Amount |
|-----------------|------------|
| Application Fee | \$45.00    |

### Graduate Application Fee (Graduate College)

| Fee             | Fee Amount |
|-----------------|------------|
| Application Fee | \$50.00    |

## Tuition

Tuition rates are established by the Board of Regents. Tuition is subject to change. Tuition charges are assessed per credit hour.

### 2025-2026 On- or Off-Campus Tuition Rates

### 2025-2026 Online Tuition Rates

## Audit Fees

The audit fee is set at one-half of the resident undergraduate or graduate tuition rate. The audit tuition rate is effective only during the first week of the semester. In addition, students registering for audit must pay all student fees. Registration for audit requires the permission of the instructor and is subject to available class space after credit registration ends. Students who register to take a course for credit and who later change to audit registration will be required to pay the full resident or non-resident tuition rate. Audit fees are refundable in accordance with the Tuition Refund Schedule.

## University and Student Fees

Fees rates listed are for the 2025-2026 academic year and are subject to change.

**On- or Off-Campus Fees** (<https://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tuition-fees-and-refunds/student-fees.php#fees>)

**Online Fees** (<https://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tuition-fees-and-refunds/student-fees.php#online>)

**Laboratory/Special Instruction Fees (Non-refundable)** (<https://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tuition-fees-and-refunds/course-fees.php>)

## Refund Schedule

Students who drop one or more courses or who completely withdraw will be obligated to the university for that portion of tuition cost based on the refund schedule. Students who completely withdraw are obligated to pay the non-refundable portion of tuition and fees for the course(s) from which they are withdrawing. Refunds are computed from the date application is received by the Registrar, not from the date of withdrawal of classes.

See Withdrawal from Classes policy. Only tuition, technology and library per credit fees are refunded. The UPF flat fee is non-refundable. No other fees are refundable after the first week of classes. Trip fees may not be refundable after a certain point. Please check with the department sponsoring the trip for refundability timelines, otherwise for all other fees, please refer to the fee schedule.

Students are not relieved from the payment of tuition and fees if they withdraw before a tuition due date, or if payment of tuition and fees has been extended by the Office of Financial Support and Scholarships. Students who have received financial aid are subject to special refund rules as established by the U.S. Department of Education. A financial aid recipient should first contact the Office of Financial Support and Scholarships prior to any official withdrawal from the university to ensure he or she fully understands the financial implications of withdrawal.

### Regular Semester

Before the first official day of the semester, 100 percent refunded.

First week of classes, 100 percent refunded.

Second week of classes, 75 percent refunded.

Third week of classes, 50 percent refunded.

Fourth week of classes, 25 percent refunded.

Fifth week of classes, 0 percent refunded.

### Summer Sessions (5 and 6 weeks)

Before first official day of semester, 100 percent refunded.

First three days of classes, 100 percent refunded.

Remainder of first week, 50 percent refunded.

Second week of classes, 25 percent refunded.

Third week of classes, 0 percent refunded.

### Summer Evening and Special Contracts (7 and 8 weeks)

Before first official day of semester, 100 percent refunded.

First three days of classes, 100 percent refunded.

Remainder of first week, 75 percent refunded.

Second week of classes, 50 percent refunded.

Third week of classes, 25 percent refunded.

Fourth week of classes, 0 percent refunded.

Courses that run less than ten weeks have unique refund schedules. Students considering withdrawal from such a course should check with the Office of the University Registrar for the applicable refund schedule.

## Special Service Fees

| Fee                         | Fee Amount |
|-----------------------------|------------|
| Graduation Fee              | \$35.00    |
| Late Application for Degree | \$70.00    |

## Residency for Tuition Purposes

### Regulations for Determination of Residency for Tuition Purposes

Residency requirements are subject to change by the Board of Regents and/or the Nebraska State Legislature.

#### Preamble

Pursuant to Article VII, Section 10 of the Constitution of the State of Nebraska, and Neb. Rev. Stat., 85-501 and 85-502, the University has been authorized to develop regulations and make determinations regarding Nebraska residency for tuition purposes. These regulations provide the bases upon which university staff shall determine, on a uniform intercampus basis, whether an individual qualifies as a Nebraska resident for tuition purposes.

It should be emphasized that the statutes provide a set of minimum standards which will govern a determination of resident status for tuition purposes only. In some instances, it will be possible that an individual may qualify as a "resident" of Nebraska for one purpose (such as securing a Nebraska driver's license) and still not meet the standards established by the Board of Regents for resident tuition status. Individuals seeking a Nebraska residency determination for tuition purposes should, therefore, carefully study all aspects of the law and these regulations before seeking resident tuition status.

### Applying for Residence Classification for Tuition Purposes

The statutes of Nebraska provide that all state educational institutions shall charge nonresident tuition for each nonresident of Nebraska who matriculates at any state institution. Nonresident status is determined in accordance with these statutes and current institutional policies, and is based upon evidence provided in the application for admission and related documents. Additional written documents, affidavits, verification, or other evidence may be required as deemed necessary to establish the status of any applicant. The burden of establishing exemption from nonresident tuition is the responsibility of the student. Erroneous classification as a

resident or willful evasion of nonresident tuition may result in disciplinary action as well as payment of required tuition for each semester attended.

Individuals seeking to establish resident status for tuition purposes will be required to have established a home in Nebraska for at least 12 months unless it is not required by the specific category listed on the residency application form. However, any individual who has moved to Nebraska primarily to enroll in a post-secondary institution in Nebraska will be considered a nonresident for tuition purposes for the duration of their attendance. Enrolling more than half time for any term at a university, college, or community college in Nebraska during the 12 months immediately preceding the term or semester for which residence status is sought, will be considered as strong evidence that an individual moved to Nebraska primarily to enroll in a post-secondary institution in Nebraska. Students who have been classified as a nonresident and feel they qualify for resident status should review the "Application for Residence Classification for Tuition Purposes ([https://csprdn.unl.edu/psc/csprdn/NBX/HRMS/s/WEBLIB\\_ENTREDIR.ISCRIPT1.FieldFormula.IScript\\_Redirect/?nba-product=EF&cref=NBA\\_NVC\\_DS\\_EFORM\\_RESAPP](https://csprdn.unl.edu/psc/csprdn/NBX/HRMS/s/WEBLIB_ENTREDIR.ISCRIPT1.FieldFormula.IScript_Redirect/?nba-product=EF&cref=NBA_NVC_DS_EFORM_RESAPP)).\" A student should submit both the application and supporting documentation by the deadline noted within the application.

UNO Undergraduate Admissions  
6001 Dodge Street,  
111 Eppley Administration Building  
Omaha, NE 68182  
Phone: 402.554.2393

Graduate Students  
UNO Office of Graduate Studies  
6001 Dodge Street  
108 Eppley Administration Building  
Omaha, NE 68182  
Phone: 402.554.2341

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## Nebraska State Income Tax Credit

Individuals who do not qualify for resident tuition status and/or reside outside of Nebraska but pay Nebraska income tax, and the spouses or dependents of such individuals, are entitled to tuition credit upon documented evidence of such payment to the State. The tuition credit granted shall equal up to the amount of Nebraska income tax paid for the immediately preceding calendar year except that the remaining obligation cannot be less than the amount of the resident tuition.

Applications for the Non-Resident Nebraska Income Tax Tuition Credit are available at UNO's Cashiering and Student Accounts Office, 109 Eppley Administration Building, 402.554.2324. Additionally, the form can be downloaded from the Cashiering and Student Accounts website (<https://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tax-information/>). Specific qualifications and guidelines regarding the tax credit are provided on the applications.

## Midwest Student Exchange Program

Through the Omaha Urban Rate (OUR) Tuition program, the University of Nebraska at Omaha (UNO) participates in the Midwest Student Exchange Program (MSEP), an interstate initiative established by the Midwestern Higher Education Compact (<https://www.mhec.org/>) to increase educational opportunities for students in its member states.

## Omaha Urban Rate (OUR) Tuition

Effective Fall 2023, the University of Nebraska at Omaha (UNO) is offering high school graduates (undergraduate applicants) or current residents (graduate and undergraduate applicants) of 15 states the opportunity to attend UNO at significantly reduced tuition rates through an initiative called Omaha Urban Rate (OUR) Tuition. OUR Tuition states include: Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Montana, North Dakota, Ohio, South Dakota, Wisconsin, and Wyoming.

Please visit the [website \(https://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tuition-fees-and-refunds/omaha-urban-rate-our-tuition.php\)](https://www.unomaha.edu/accounting-services/cashiering-and-student-accounts/tuition-fees-and-refunds/omaha-urban-rate-our-tuition.php) for more information.

## Contact Information

If you have questions regarding residency or residence regulations, contact the offices listed below:

Undergraduate Students



# GENERAL EDUCATION CURRICULUM

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## University General Education Requirements

To ensure that each graduate of UNO possesses certain academic skills, experiences the breadth of a liberal education and develops an appreciation for the diversity that exists in the nation and world, the faculty have adopted University general education requirements. The requirements apply to all incoming first year and transfer students. Students enrolled in UNL-administered programs should contact their advisors to determine the applicable requirements.

Learn more (<https://www.unomaha.edu/registrar/students/before-you-enroll/transfer-credit/transfer-guide.php>) about Institution-Wide General Education Agreements, Community College General Education Guides, and Program-Specific Transfer Agreements by Institution.

## The University General Education Curriculum consists of:

### Fundamental Skills - 15 credit hours

- Writing - 6 credit hours
- Oral Communication - 3 credit hours
- Quantitative Literacy - 3 credit hours
- Data Literacy - 3 credit hours

### Breadth of Knowledge - 13 credit hours

- Social Science - 3 credit hours
- Humanities - 3 credit hours
- Natural and Physical Science (must complete a lab) - 4 credit hours
- Arts - 3 credit hours

### Individual and Social Responsibility - 6 credit hours

- Cultural Knowledge - 3 credit hours
- Civic Knowledge and Engagement - 3 credit hours

**\*\*Students must earn a grade of C- or better for the course to count toward general education completion.**

Learn more (<https://www.unomaha.edu/general-education/curriculum/>) about the approved general education courses.



# COMMUNITY ENGAGEMENT OPPORTUNITIES

## Community Engagement Opportunities

As a UNO student, community engagement activities provide you with diverse ways to achieve your education while building your resume and networking in the community. Here's some examples:

- Taking a class that brings you out into the community to complete your coursework (service learning or community-based learning)
- Volunteering and Civic Engagement
- Capstone projects/research involving a community organization

## Service Learning Academy

Service learning is an experiential, collaborative method of teaching that incorporates community projects that promote academic learning. These projects are directly linked to academic curriculum and meet community-identified needs while engaging students in their community and provide real-world context to coursework. As such, service learning course "classrooms" often exist in the community and engage community partners (such as nonprofit organizations, business, governmental agencies, and P-12 schools) as co-teachers. Throughout the course students reflect on their experiences, consider the relationship to their reading and research, relevance to community growth, and impact on their personal values, development, and professional skills.

Every semester, there are a variety of courses in all UNO colleges that use service learning as a method of instruction. By choosing a service learning course, students can:

- Apply textbook knowledge to the real world and engage with homework
- Use and develop strengths
- Discover new skills & talents
- Explore their leadership style
- Learn to communicate with others and work in teams
- Sharpen skills that employers want such as problem solving, critical thinking, innovation, and creativity
- Explore the assets in the community
- Build their résumé

To search for service learning courses, choose service learning under the Program tab in the class search function.

To explore service learning course options and project examples, please visit [sla.unomaha.edu](https://sla.unomaha.edu) (<https://www.unomaha.edu/service-learning-academy/students-and-educators/>).

## Volunteer and Civic Engagement Programs

### Volunteer Opportunities for Students

Each year, UNO organizes and sponsors annual Signature Service Days and volunteer events that students can participate in. As student volunteers, you engage in service projects that focus on some of the most important issue areas facing the community. These opportunities help you gain valuable skills and connections that you can utilize in different ways (i.e., interviewing, references, and more).

### Here's a list of annual Signature Service Days and events:

- MLK Jr. Day of Service
- Seven Days of Service
- Earth Day of Service
- International AIDS Day of Service
- 60 Minutes of Service

You can learn more about volunteer opportunities and events at [serve.unomaha.edu](https://www.unomaha.edu/office-of-engagement/volunteerism-civicengagement/) (<https://www.unomaha.edu/office-of-engagement/volunteerism-civicengagement/>).

## Civic Engagement Opportunities

Civic Engagement allows students to address the social and cultural issues within our society. There are many ways for students to be civically engaged and UNO has a long history of being a top university in the nation in getting students registered to vote and participating in the process. Beyond this, students have opportunities to have meaningful dialogue with their peers and public officials on what it means to advocate, how government operates, and opportunities to engage in civic learning such as the annual "I Love NU Day" at the Nebraska state capitol. Civic Engagement opportunities for students bring life to why we serve and help students to gain valuable experience and skills in communication, collaboration, and how to be change agents while at UNO and beyond. Some examples of form; ways to be civically engaged are:

Taking advantage of Americorps VISTA opportunities

Participating in domestic/international service and humanitarian efforts by serving in the Peace Corps (<https://www.unomaha.edu/office-of-engagement/about-us/peacecorps.php>)

Community Engaged Scholarship Transcript Designation (CESTD)

The CESTD is a transcript designation that documents and recognizes undergraduate students for their community engagement experiences. This designation offers incentive and competitive edge for students who choose to tailor their involvement and academic work in a way that capitalizes on UNO's comparative advantage.

- Completion of 1 community based-learning experience (3 credit hours)
- Completion of 6 hours of service-learning coursework
- Completion of 135 volunteer/community service hours (outside of the classroom)
- Completion of written reflection piece (one for each category along with a final reflection).
- Minimum 3.0 Cumulative GPA at graduation

**Enroll Online**

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## **Barbara Weitz Community Engagement Center (CEC)**

As a metropolitan university, UNO encourages its students to be active and civically engaged members and leaders in a diverse and evolving society. The CEC is a unique place where UNO students can access volunteer opportunities, service events, service learning inquiries, service learning projects and events, student jobs and internships, and community engagement-based events. The CEC is home to over 35 university and community building partner organizations that work side by side in flexible office spaces to improve the quality of life for those they serve.

Learn more at [cec.unomaha.edu/contact](http://cec.unomaha.edu/contact)

# ACADEMIC LEARNING COMMUNITIES

## Academic Learning Communities

An Academic Learning Community (ALC) is a group of students who learn together. Students take coursework together, participate in projects with one another, and work to build learning in a particular area.

## Goodrich Scholarship Program

The Goodrich Scholarship Program began in 1972 through Senator Glenn Goodrich's enabling budget amendment. The program offers a merit-and-need-based scholarship to students who will attend only the University of Nebraska Omaha.

The Goodrich Scholarship Program now boasts over 3,000 alumni who, for over 50 years, have continued to connect and contribute to their communities as lawyers, educators, doctors, social workers, engineers, artists, business professionals, elected officials, directors of non-profit organizations, technologists, writers, and law enforcement officers, among many others.

Learn more about the Goodrich Scholarship Program (<http://www.unomaha.edu/goodrich/>)

## Thompson Learning Community

Students receiving a college scholarship from the Susan T. Buffett Foundation and attending UNO, are William H. Thompson Scholars. William H. Thompson was the father of Susan T. Buffett and served as Professor of Psychology and Dean of the College of Arts and Sciences at Omaha University, which became UNO.

The Susan T. Buffett Foundation and the University of Nebraska are collaborating to provide Thompson Scholars a unique educational experience aimed at enhancing their academic success. TLC aims to make your transition to college and your entry into a major field of study as smooth and educationally rewarding as it can be. TLC will promote your academic success through common courses, academic workshops, and connections with faculty. Additionally, your transition will be supported through your relationship with other scholars, an upper-class UNO Mentor, social programming and other opportunities for you to connect with UNO.

Learn more about the Thompson Learning Community (<https://www.unomaha.edu/academic-affairs/thompson-learning-community/>)

## Entrepreneurial Living Learning Community

The Entrepreneurial Living Learning Community (ELLC) is open to incoming freshmen of any major who are interested in innovation and entrepreneurship.

ELLC Cohort students are guaranteed housing in UNO's Scott Village and receive a \$2,500 scholarship over two years. ELLC cohort members have many opportunities to be involved in Nebraska's entrepreneurship community including being a member of UNO's national award winning,

Collegiate Entrepreneurs' Organization, connecting with successful entrepreneurs, and taking trips to entrepreneurial hotspots such as Silicon Valley.

Learn more about the Entrepreneurial Living Learning Community (<https://www.unomaha.edu/college-of-business-administration/center-for-innovation-entrepreneurship-franchising/ellc/>)

## University Honors Program

The mission of the University of Nebraska Omaha Honors Program is to provide an enhanced and supportive learning environment responsive to the educational needs of highly able and/or exceptionally motivated undergraduate students.

This goal will be accomplished through participation of faculty noted for excellence in teaching by providing small Honors-only populated sections of regular courses, interdisciplinary Honors colloquia, special seminars, and increased opportunity for undergraduate research/creative activity. Whether you are a high school student, a transfer student, or currently a student at UNO, you are invited to consider participating in the University Honors Program.

Learn more about the UNO Honors Program (<http://honors.unomaha.edu/>)

## UNO Air Force ROTC

Air Force ROTC (AFROTC) is a college program offered at colleges and universities across the U.S. that prepares you to become an Air Force officer and helps you understand the career options available in the United States Air Force. ROTC stands for Reserve Officer Training Corps and helps develop leaders for the future.

AFROTC programs across the nation provide excellent opportunities to get involved in the United States Air Force and build a career out of it. Detachment 470 not only provides the skills to become an excellent leader, but it goes beyond and helps build loyal wingman. The Wolfpack allows cadets to truly understand the benefits and hardships of being an officer in the Air Force, while not overwhelming them and allowing them to still have an average "college" life. The Wolfpack is actively involved in the Omaha community, regularly meets together to create a sense of unity among cadets, and has a friendly rivalry between the Army ROTC Detachment at Creighton.

Learn more about UNO Air Force ROTC (<http://www.unomaha.edu/afrotc/>)

## UNO Army ROTC

Army Reserve Officers' Training Corps (AROTC) is one of the best leadership courses in the country and is part of your college curriculum. ROTC helps develop leaders for the future and builds a team unlike any other organization. Army ROTC prepares you to become an Army officer and helps you understand the career options available in the United States Army, Army National Guard, and Army Reserves. Full tuition scholarships and other monetary support are available when you join Army ROTC which allow you to focus on your education.

ARMY ROTC trains, develops, and commissions confident and competent leaders of character that are ready to train and lead Soldiers in the 21<sup>st</sup> Century US Army. The program offers unique opportunities to train with other countries as well as attend various military schools. Each year Cadets attend various advanced training opportunities. Training ranges from

Cadet Summer Training, internships, to even attending the prestigious Army Airborne School, Air Assaults School, or the Combat Diver School. Additionally, Cadets in the program participate in Color Guard, Nurses Training, and even conduct leadership training with active-duty units across the globe. The 'Black Wolves' Army ROTC Battalion is actively engaged with the Omaha Community and is based out of Creighton University.

Learn more about UNO Army ROTC (<https://www.unomaha.edu/army-rotc/>)

Military Science Minor Requirements (p. 54)

For more information, go to the Creighton Army ROTC website (<https://www.creighton.edu/groups/armyrotc/>) email: [armyrotc@creighton.edu](mailto:armyrotc@creighton.edu) or call us at 402.280.1176

## Scott Scholar Living Learning Community

The Scott Scholar Living Learning Community (SSLLC) is comprised of students receiving the Walter Scott, Jr. Scholarship. This scholarship is the most prestigious scholarship extended by the University of Nebraska's, Peter Kiewit Institute. Scholars are chosen from the best and brightest students who are committed to life-long learning and prepared to contribute to society and the future of technology. Students learn in new ways, not only from dedicated faculty in the two colleges, UNL's College of Engineering and UNO's College of Information Science & Technology, but from business leaders dealing with practical challenges.

To support student growth, the SSLLC features a four-year leadership development program to develop students into leaders of character with the leadership, communication and teamwork skills needed for successful careers in business and government.

The mission of the program is to develop leaders of character equipped with the leadership, communication and teamwork skills needed for successful careers in business, industry and government.

Learn more about the Scott Scholar Living Learning Community (<https://www.unomaha.edu/scott-scholars/living-learning-community/learning-community.php>)

## Engineering the Leader in You Living Learning Community (ENGR LLC)

All new first-year students pursuing a degree in the UNL College of Engineering are encouraged to apply for the ENGR LLC. Focused on leadership and career development, new first-year engineering students selected for this community will live together in Scott Village, share similar engineering interests, take common courses each semester, and participate in programs designed to enhance their professional skills. Common fall courses typically include Calculus I (MATH 1950), Chemistry (CHEM 1180), and ENGR 100 (freshman seminar). Common spring courses typically include Calculus II (MATH 1960), Physics (PHYS 2110), and ENGR 200 (career development seminar).

All interested new first-year engineering students are encouraged to select this community via the UNO Housing Application. The College of Engineering will notify all students selected for the community no later than May 1. The maximum capacity for the community is 24 students.

## CBA Scholars

Within a close-knit community of ambitious and high-achieving students, Scholars challenge themselves while pursuing a Bachelor of Science in Business Administration. Throughout the four years in the program, Scholars are mentored by professionals in the Omaha community, enroll in special business courses taught by award-winning faculty, and gain real-world experience through community engagement and international travel.

Learn more about CBA Scholars (<https://www.unomaha.edu/college-of-business-administration/scholars-academy/>)

## Teacher Scholars Academy

Teacher Scholars Academy is a select group of high-achieving teacher candidates who embody leadership qualities and commitment to their communities. As a Teacher Scholar, students will work closely with other high-performing Scholars by engaging in seminars, courses, and special projects specially designed for each cohort. Scholars will graduate with a strong network of professional peers.

Learn more about Teacher Scholars Academy (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/teacher-scholars-academy/about/>)

## Peter Kiewit Foundation Engineering Academy Scholar Learning Community

The Peter Kiewit Foundation has partnered with the College of Engineering to provide 40 incoming freshmen with the opportunity to be part of the PKF Engineering Academy, which seeks to recruit and retain students committed to supporting and advancing women in engineering in the state of Nebraska, providing students who have financial need with the resources and support to pursue careers in engineering and construction. We have students studying on campuses in both Lincoln and Omaha. All Omaha students will live together in Scott Crossing for the first two years of school, with the option of continuing to live in Scott Housing as part of their scholarship throughout their time in the program.

Through a cohort-based program of 40 incoming freshman each year, these students will be empowered to make a positive impact in their field through community building, exclusive seminar courses, dedicated success coaching, and social events. The scholarship covers tuition, university fees, required course books and materials, housing and food, a personal computer, a professional wardrobe stipend, and individual professional development funds.

Learn more about The Peter Kiewit Foundation Engineering Academy (<https://engineering.unl.edu/pkf-engineering-academy/>)

## Military Science

### Military Science Minor Requirements

| Code                         | Title | Credits |
|------------------------------|-------|---------|
| <b>18 Hours Required</b>     |       |         |
| <b>All of the following:</b> |       |         |

|           |                                      |
|-----------|--------------------------------------|
| MILS 2010 | INNOVATIVE TEAM LEADERSHIP           |
| MILS 2120 | FOUNDATIONS OF TACTICAL LEADERSHIP   |
| MILS 2020 | UNITED STATES MILITARY HISTORY       |
| MILS 3010 | ADAPTIVE TACTICAL LEADERSHIP         |
| MILS 3020 | LEADERSHIP IN A CHANGING ENVIRONMENT |
| MILS 4000 | LEADERSHIP LABORATORY                |
| MILS 4010 | DEVELOPING ADAPTIVE LEADERS          |
| MILS 4020 | LEADERSHIP IN A COMPLEX WORLD        |

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## Accessibility Services

## Accessibility Services

The Accessibility Services Center (ASC) collaborates with students, administrators, faculty, and staff to ensure access to reasonable and appropriate student disability accommodations. ASC strives to create a fully accessible, inclusive experience for student learning, campus engagement, and residential life.

### Student Accommodations

Through an interactive process and collaboration, ASC provides individualized services to students with disabilities to establish appropriate accommodations to create equal access. ASC encourages students to become responsible decision makers, problem-solvers, and self-advocates who request and access their accommodations.

### Requesting Accommodations

Once you are admitted to UNO, requesting accommodations steps is initiated through the ASC Online Portal. Students fill out an application and upload supporting disability documentation to begin the process. Following this, an interactive discussion with an ASC Specialist is scheduled to complete the accommodation process.

Learn more about requesting accommodations and accessing the online portal on the Accessibility Services Center website (<https://www.unomaha.edu/student-life/accessibility/>). If you are not sure if you

qualify for support services, do not hesitate to contact ASC at 402.554.2872 or stop by the ASC in HK 104.

## Request for Reasonable Accommodation in Field Placements

The University of Nebraska at Omaha (UNO) supports students with disabilities and encourages their full participation in all academic programs, including field placements of all kinds. "Field placements" for the purpose of this document include any practicum, field experience, clinical practice, internship, training, clinic, or work experiences (or similar) conducted for academic credit. In accordance with Section II of the Americans Disabilities Act and Section 504 of the Rehabilitation Act, UNO's Accessibility Services Center is the designated office to work with students with disabilities to provide reasonable accommodation so they may enjoy the same benefits, experiences, and opportunities as persons without disabilities.

## Alumni Engagement/NU Foundation

### Alumni Engagement/NU Foundation

The UNO Alumni Association (<https://unoomni.org/>) and the University of Nebraska Foundation have partnered to advance the overall mission and priorities of UNO, and to connect the dreams and passions of alumni and friends with the mission of the university. Click here (<https://nufoundation.org/>) for more information.

## Bookstore

### Bookstore

The UNO Bookstore, owned and operated by the University of Nebraska at Omaha, is located on the first level of MBSC. The Bookstore offers new and used textbooks, rental books, digital e-books, Omaha's largest selection of UNO apparel, gifts, and home décor. The UNO Bookstore website, [unobookstore.com](http://unobookstore.com/) (<http://unobookstore.com/>), offers free in-store pickup and free residence hall delivery for textbooks, apparel and more.

## Campus Recreation and Wellness

### Campus Recreation and Wellness

RecWell supports students on their journey to living a healthy and balanced lifestyle while at UNO. If you are enrolled in at least one credit hour on-campus, a RecWell membership is included as part of your University Program and Facilities (UPF) Fees. There is no need to purchase a membership separately while taking an on-campus class. A valid membership is determined on a semester basis. If you are enrolled in an online, remote, research, or thesis class, you must opt into the fee by purchasing a UNO Student Membership would need to be purchased. A purchase is necessary since these classes do not pay the University Program and Facilities (UPF) Fees. All students, whether you are taking in person or online classes, you are eligible to participate in Wellness Coaching (<https://www.unomaha.edu/student-life/wellness/health-coaching-and-wellness-resources.php>). Campus Recreation and Wellness is located in the H&K Building. Learn more on their website (<https://www.unomaha.edu/student-life/wellness/campus-recreation/>).

## Career Services

### Career Services

Career Services empowers students to explore, develop, and succeed at UNO and beyond. We prepare students for meaningful work by building bridges with campus, community, and employers. We offer career exploration advising, career readiness resources, job and internship preparation, career fair and hiring events, experiential education opportunities, and more. Students can explore internship and job opportunities using Handshake (<https://www.unomaha.edu/student-life/achievement/academic-and-career-development-center/career-development/handshake.php>), UNO's official career platform.

### The Student Service and Leadership Collaborative

The Student Service and Leadership Collaborative is dedicated to developing students into servant leaders who are self and culturally aware through paid nonprofit internships, experiential learning and local and national professional student leadership and development symposiums.

Interested students can search and apply for these opportunities on Handshake (<https://www.unomaha.edu/student-life/achievement/academic-and-career-development-center/career-development/handshake.php>).

### Maverick Student Employment

Maverick Student Employment (<https://www.unomaha.edu/maverick-student-employment/>) at the University of Nebraska at Omaha (UNO) represents all on-campus positions and is a great option for students interested in flexible scheduling, building campus connections, learning new professional skills, and more that will help with career readiness. Student employees make up a large percentage of our workforce in the UNO community. Our students are engaged in the critical work that helps keep our colleges, divisions, and departments operating. It is in acknowledgement of this, that Maverick Student Employment provides an enriching experience for students to keep our university strong and focused on student success. Using Handshake (<https://www.unomaha.edu/student-life/achievement/academic-and-career-development-center/career-development/handshake.php>), UNO's official career platform, students can review and apply for on-campus jobs.

## Computer Science Learning Center

### Computer Science Learning Center

The Computer Science Learning Center (CSLC) provides UNO students with the assistance they need to be successful in their Computer Science and related technology courses. University students serve as tutors that help their fellow students gain understanding of computer science topics. This knowledge helps in the academic success of students who use the space as well as helps prepare students for potential career opportunities. For regular help with homework, labs, exam preparation, and more, please visit (<https://www.unomaha.edu/college-of-information-science-and-technology/computer-science-learning-center/>) to look through our hours of operation and how to contact us. Students are welcome to stop by in person or over Zoom. The CSLC is located in PKI 391 and our Zoom information is shared on the previously listed website. There is no cost for tutoring assistance and no appointment is needed.



## Division of Innovative & Learning-Centric Initiatives (ILCI)

### Division of Innovative & Learning-Centric Initiatives (ILCI)

The Division of Innovative & Learning-Centric Initiatives (ILCI) serves the UNO community in the areas of online development of courses and programs, instructional design, academic technologies, workforce development, microcredential courses, and new market opportunities. As we help guide innovation at UNO, we focus on student-first strategies: supporting a comprehensive digital learning ecosystem; developing and celebrating the attainment of future-ready skills via digital badges; designing re-skilling and up-skilling microcredential courses; and offering flexible degree programs that fit within a student's busy life. Digital Learning is housed within ILCI, providing UNO faculty with workshops and training; assistance with instructional design and academic technology; and grant funding that support the delivery of high-quality courses in online and flexible formats. To learn more about ILCI, including the specific services we offer the campus, the current academic technology pilots we are coordinating, the current projects we are championing, and regular news and updates from our division, please visit [innovate.unomaha.edu](https://www.unomaha.edu/innovative-and-learning-centric-initiatives/). (<https://www.unomaha.edu/innovative-and-learning-centric-initiatives/>)

## Durango's Advancement & Support Hub (DASH)

### Durango's Advancement & Support Hub (DASH)

Durango's Advancement & Support Hub (DASH) exists to highlight and grow the four following areas:

- **Hardship & Resiliency Support:** Supporting and empowering students with lived experience in the foster care and justice systems, students with incarcerated parents, students who are pregnant/parenting, and students who are facing hardships. This area is focused on building and strengthening pipelines from child welfare and prison systems, as well as referral avenues from community partnerships.
- **The Scholarship Collective:** Creating a positive learning and mentoring experience for scholarship or special population cohorts. This area currently manages 15 donor funded scholarships and is slated to increase the scholarship capacity through new partnerships with existing nonprofits.
- **The Maverick R&R Toolkit:** Building and referring students to internal and external resources to create stability and support for students as they navigate life's challenges. The purpose of this toolkit is to increase self-advocacy, retention, and social mobility.
- **The Peer Mentor Alliance:** Designing opportunities for peer mentors to become more well-rounded humans by focusing on basic needs or system-impacted knowledge to better support students from a peer-to-peer lens. This new focus will offer skill-advancement in critical thinking and problem-solving, empathy and compassion, and workforce development.

Our tagline: "You have the ingredients; we just add a *dash* of support."

## Environmental Health and Safety

### Environmental Health and Safety

It is the goal of the university to provide a safe, healthy environment to work and study. In order to achieve this, Environmental Health and Safety (EHS) provides a number of training programs and consultation services for students, faculty and staff. Programs directed by EHS include: employee safety and passenger van training, hazardous waste management, emergency preparedness, fire protection, and accident investigations.

Safety Data Sheets and other information related to the safe handling and disposal of chemicals can be obtained from the EHS website. Students can help maintain a safe environment at UNO by reporting unsafe conditions on campus. Visit the EHS website (<https://www.unomaha.edu/business-and-finance/support-services/environmental-health-and-safety/>); call 402.554.3596, or visit EHS in 211 Eppley Administration Building.

## Facilities

### Facilities

Visit the UNO Buildings and Maps (<https://www.unomaha.edu/about-uno/buildings-and-maps/>) website for detailed information on buildings and locations.

## Fingerprints

### Fingerprints

The Police and Public Safety Department provides a fingerprinting service for individuals who require fingerprints for job applications and military needs. This service also applies for children of students, staff, faculty, and alumni. The department will fingerprint children upon the request of a parent. It is strictly for the benefit of the parents should a child ever be missing; no record will be maintained by the Department. Contact The Department for times of service or to schedule an appointment at 402.554.2648.

## Housing & Residence Life

### Housing & Residence Life

Housing and Residence life creates a positive residential experience and supports the evolving needs of students at UNO. Six different on-campus housing options are available to UNO students: Maverick Village (MV) and University Village (UV) on Dodge Campus; Scott Court (SC), Scott Crossing (SX), Scott Hall (SH), and Scott Village (SV) on Scott Campus. Housing and Residence life is proud to offer apartment, traditional, and graduate-style housing to UNO students. Learn more on the Housing and Residence Life website (<https://www.unomaha.edu/student-life/housing-and-residential-life/>).

## Gender-Inclusive Housing

Students and allies of all sexual orientations, gender identities, and gender expressions are eligible to live in designated Gender-Inclusive Housing. Apartment features are the same as other housing facilities.

## Information Technology Services

### Information Technology Services

Information Technology Services (ITS) offers a broad range of services designed to meet the computing, communications, and networking needs of the University of Nebraska faculty, staff and students. See <https://its.unomaha.edu>.

## Institutional Effectiveness & Student Success

### Institutional Effectiveness & Student Success

The University of Nebraska at Omaha's (UNO) Division of Institutional Effectiveness and Student Success builds and supports a culture of inquiry and data-informed decision-making. The Division works to (1) continuously enroll our students, (2) ensure their degree completion, and (3) support the achievement of their post-graduation career pursuits.

## International Programs (INPR)

### International Programs (INPR)

Current programs under INPR include:

International Student Advising (<https://www.unomaha.edu/international-studies-and-programs/student-support/advising.php>) for all international students and scholars.

The Education Abroad (<https://www.unomaha.edu/international-studies-and-programs/study-abroad/>) office assists students in exploring their many options for off campus academic programs, including domestic and global opportunities.

International Student and Scholar Support (<https://www.unomaha.edu/international-studies-and-programs/student-support/>) helps current and new students get oriented to campus, supports academic and immigration-related issues, and offers involvement opportunities on campus and in the community.

ILUNO Intensive English (<https://www.unomaha.edu/international-studies-and-programs/iluno/>) is one of the oldest and most highly regarded English as a Second Language programs in the region.

Global Partnerships (<https://www.unomaha.edu/international-studies-and-programs/global-partnerships/>) supports colleges in developing international partnerships and managing agreements related to global engagement.

International Recruitment (<https://www.unomaha.edu/international-studies-and-programs/>) at UNO focuses on attracting and supporting international students through global outreach, aiding students until their arrival on campus.

Global Partnerships and Recruiting (<https://www.unomaha.edu/international-studies-and-programs/>) supports the development, maintenance, and activities related international partnerships, and student mobility to UNO.

The Center for Afghanistan and Regional Studies ([https://www.unomaha.edu/international-studies-and-programs/center-for-](https://www.unomaha.edu/international-studies-and-programs/center-for-afghanistan-studies/)

[afghanistan-studies/](https://www.unomaha.edu/international-studies-and-programs/center-for-afghanistan-studies/)) continues to serve as America's primary cultural and scholarly link between the two countries.

Young Southeast Asian Leaders Initiative (<https://www.unomaha.edu/international-studies-and-programs/engagement/yseali-institute/>) is an educational and cultural exchange to build the leadership capabilities of young professionals in the region, strengthen ties between the United States and Southeast Asia, and promote collaboration in the ASEAN community.

For further information, contact the International Programs office at 402.554.2293 or [world@unomaha.edu](mailto:world@unomaha.edu)

## Lost and Found

### Lost and Found

The Police and Public Safety Department maintains the lost and found system. Lost and found items are held for 30 days.

## Math-Science Learning Center

### Math-Science Learning Center

The Math-Science Learning Center (<https://www.unomaha.edu/college-of-arts-and-sciences/math-science-learning-center/>) (MSLC) provides UNO students the assistance they need to be successful in their Math and Science courses. Undergraduate students serve as tutors, mentors and study group facilitators trained to assist their peers in achieving academic success. The MSLC has abundant study/tutoring space, computers, and reserve study materials suitable for individual and small-group study. Students seeking to increase their overall learning effectiveness and efficiency are encouraged to meet with the MSLC director to discuss strategies and make a success plan. For regular help with homework, lab, exam-prep, etc., please visit [www.unomaha.edu/MSLC/](http://www.unomaha.edu/MSLC/) for course-specific schedule information. Then just stop by or log onto Zoom, we offer tutoring in-person and online. There's no cost and (for most courses) no appointment needed.

The Math-Science Learning Center is located in 107 Durham Science Center.

## MatheMaverick Zone

### MatheMaverick Zone

The MatheMaverick Zone is a communal mathematics study space with free tutoring available for Math 1950 and below. Visit MatheMaverick Zone (<https://www.unomaha.edu/college-of-arts-and-sciences/mathematics/math-lab/>) website for additional information.

## Maverick Advising Center (the MAC)

### Maverick Advising Center (the MAC)

The Maverick Advising Center (MAC) supports students in Exploratory Studies for up to 45 credit hours. Additionally, the MAC provides tailored guidance to prospective transfer students who are exploring potential majors at UNO. Whether you're a current student exploring majors, thinking of transferring to UNO, or are a part of our MetroMavs scholarship community, our advisors are here to help you navigate your academic journey. The MAC prepares students to choose an academic major with confidence and guides them to stay on track for graduation. Students work with their advisors to strive for academic success by:

- Determining personal, career, and academic goals
- Exploring majors and courses of interest through Academic Focus Areas (<https://www.unomaha.edu/academics/academic-focus-areas/>)
- Working to find a balance between education, work, and family

## MavIGATION Station

### MavIGATION Station

The MavIGATION Stations, located on the first floor of the Eppley Administration Building and on the first floor of the Milo Bail Student Center, provide general information and referrals to appropriate offices and departments around campus. The general information number is 402.554.2800 (EAB) or 402.554.6281 (MBSC).

## Milo Bail Student Center

### Milo Bail Student Center

At the heart of Dodge Campus lies the Milo Bail Student Center (MBSC), a bustling student involvement hub. The MBSC is not just a place; it's a dynamic center where students engage in various activities and access essential services. Prospective students and their families start their UNO journey at the MBSC with [Campus Visits \(https://www.unomaha.edu/admissions/visit/\)](https://www.unomaha.edu/admissions/visit/) & [Orientation \(https://www.unomaha.edu/student-life/achievement/new-student-and-family-programs/orientation/\)](https://www.unomaha.edu/student-life/achievement/new-student-and-family-programs/orientation/) scheduling guided campus tours and information sessions to explore the campus and gain insights into the university's offerings. Orientation programs provide new students with the tools and information they need to transition smoothly into campus life. The student ID card office, [MavCARD Services \(https://www.unomaha.edu/milo-bail-student-center/mavcard/\)](https://www.unomaha.edu/milo-bail-student-center/mavcard/), and the university's bookstore, [The Maverick Store \(https://www.unobookstore.com/\)](https://www.unobookstore.com/), make handling academic and campus life logistics a breeze, providing easy access to everything a student needs to start their journey. The MBSC is also home to a range of student services, making it a one-stop-shop for student support. Whether seeking assistance from [Student Leadership, Involvement, & Inclusion \(https://www.unomaha.edu/office-of-student-leadership-involvement-and-inclusion/\)](https://www.unomaha.edu/office-of-student-leadership-involvement-and-inclusion/), [Military-Connected Resource Center \(https://www.unomaha.edu/military-and-veteran-services/\)](https://www.unomaha.edu/military-and-veteran-services/), or [Spirit, Tradition, and Signature Events \(https://www.unomaha.edu/student-life/spirit-tradition-signature-events/\)](https://www.unomaha.edu/student-life/spirit-tradition-signature-events/), students will find the support they need. For students looking to get involved in campus life, the MBSC offers a plethora of programs tailored to different interests. From [Fraternity and Sorority Life \(https://www.unomaha.edu/student-life/involvement/omaha-greeks/\)](https://www.unomaha.edu/student-life/involvement/omaha-greeks/) to [Maverick Productions \(https://www.unomaha.edu/student-life/involvement/maverick-productions/\)](https://www.unomaha.edu/student-life/involvement/maverick-productions/), [Dance Marathon \(https://www.unomaha.edu/student-life/involvement/uno-dance-marathon.php\)](https://www.unomaha.edu/student-life/involvement/uno-dance-marathon.php), and [Student Government \(https://www.unomaha.edu/student-life/involvement/student-government/\)](https://www.unomaha.edu/student-life/involvement/student-government/), there's a group or organization to suit every passion and aspiration. When hunger strikes, the MBSC has students covered by offering an array of delicious food options. The [MBSC Food Court \(https://www.unomaha.edu/milo-bail-student-center/food-services-and-catering/mbsc-food-court.php\)](https://www.unomaha.edu/milo-bail-student-center/food-services-and-catering/mbsc-food-court.php) offers a variety of culinary delights such as Chick-fil-A, Qdoba Mexican Eats, Erbert & Gerbert's Sandwich Shop, Culinary Corner, and Simply to Go options, while [Durango's Grill \(https://www.unomaha.edu/milo-bail-student-center/food-services-and-catering/durangos-grill.php\)](https://www.unomaha.edu/milo-bail-student-center/food-services-and-catering/durangos-grill.php) tantalizes taste buds with its grill offerings. The [Maverick Den \(https://www.unomaha.edu/milo-bail-student-center/food-services-and-catering/convenience-store.php\)](https://www.unomaha.edu/milo-bail-student-center/food-services-and-catering/convenience-store.php) is the perfect spot to grab a quick snack or beverage between classes, and it also features a rotating selection of Omaha area vendors at the Urban Eats counter, adding variety to campus lunch options. And if students are looking for a place to unwind, study, or simply hang out with friends, the MBSC lounge and study spaces provide a comfortable and inviting atmosphere. Don't forget to stop by the MavIGATION Station (<https://www.unomaha.edu/about-uno/contact-us.php>), where students ask questions, get help navigating campus, and

borrow equipment to play pool or ping pong, adding to the vibrant and engaging atmosphere of the Milo Bail Student Center.

## Multicultural Affairs

### Multicultural Affairs

The Office of Multicultural Affairs (MCA) is responsible for developing and maintaining programs and services to ensure the successful recruitment, retention, and graduation of underrepresented students on UNO's campus. Through scholarship aid, academic services, and personal support, students are empowered to attain their educational and professional goals. Cultural programming includes celebrating cultural months (including Black History Month, Latino Heritage Month, Native Heritage Month, and Diversity Month) as well as three annual Native American events. MCA is inclusive of all UNO students. Learn more on the Multicultural Affairs website (<https://www.unomaha.edu/student-life/inclusion/multicultural-affairs/>).

## New Student and Family Programs (NSFP)

### New Student and Family Programs (NSFP)

New Student and Family Programs helps you and your family transition to UNO. Learn more on the New Student and Family Programs website (<https://www.unomaha.edu/student-life/achievement/new-student-and-family-programs/>). NSFP is primarily responsible for Campus Visits, Recruitment Events, Admitted Student Events, New Student Onboarding and Orientation (<https://www.unomaha.edu/student-life/achievement/new-student-and-family-programs/orientation/>), and Family Orientation and Events.

## Ambassadors

Our Ambassadors serve as guides for your transition experience. They are university students committed to helping first-year and transfer students by sharing all of the need-to-know information about navigating campus, student services, academic support programs, and opportunities for involvement. The goal of our Ambassadors is to ensure that you know all about the university and inspire you to make the most of your college experience.

## Office of Civil Rights Compliance

### Office of Civil Rights Compliance

The University of Nebraska does not discriminate based on race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation in its education programs or activities, including admissions and employment. The University prohibits any form of retaliation taken against anyone for reporting discrimination, harassment, or retaliation for otherwise engaging in protected activity. Read the full statement (<https://www.unomaha.edu/notice-of-nondiscrimination-anti-harassment-and-non-retaliation.php>)

Learn more about the Office of Civil Rights Compliance (<https://www.unomaha.edu/university-compliance/civil-rights/>)

UNO's Office of Civil Rights Compliance is responsible for ensuring compliance with applicable laws, regulations, and policies governing discrimination and harassment.

- Title IX & Sexual Misconduct (<https://www.unomaha.edu/university-compliance/civil-rights/title-ix-information/>)
- Procedures for Discrimination Reports (<https://www.unomaha.edu/university-compliance/civil-rights/procedures-for-discrimination-reports.php>)
- Procedures for Requesting Accommodations (<https://www.unomaha.edu/university-compliance/civil-rights/americans-with-disabilities-act/procedures-for-requesting-accommodations.php>)

Resources for support (<https://www.unomaha.edu/university-compliance/civil-rights/title-ix-information/resources.php>)

Sex based misconduct or discrimination should be reported to:

UNO Director of Civil Rights Compliance

Title IX Coordinator/ADA/504 Coordinator

Phone: 402-554-2120

Email: [equity@unomaha.edu](mailto:equity@unomaha.edu)

## Ombuds Services

### Ombuds Services

Ombuds Services provides informal, confidential help when you have a conflict or problem with individuals, offices, or policies at the university. The Ombuds (Ombudspersons) help you analyze your situation, obtain information, identify your options, and develop a plan to address your concerns. The Ombuds do not take sides in a dispute; they are advocates for fairness and the equitable resolution of conflicts and problems. Communicating with an Ombuds is off-the-record. If you wish to make a record, or to make UNO aware of a problem, the Ombuds can provide information and help you do so. Exceptions to Ombuds confidentiality occur only when there is an imminent risk of serious harm and no other reasonable option to prevent it.

For more information or to make an appointment, please go to the Ombuds Services (<https://www.unomaha.edu/ombuds-services/>) web page. Services are free to all UNO students and employees.

## Operations I.D.

### Operations I.D.

Your personal belongings may be engraved to aid in finding lost or stolen property. Stop by the Department of Public Safety Office and check out an engraver and instructions to engrave your property.

## Parking

### Parking Services

For information on parking services, visit the parking services website (<https://www.unomaha.edu/business-and-finance/support-services/parking-services/>).

### Parking Traffic

All accidents should be reported to the Police and Public Safety Department.

## Personal Safety

### Personal Safety Escorts

Officers are available to escort individuals to/from campus buildings 24 hours a day for anyone who has a safety concern.

## Personal Safety Checks

Individuals who may be working alone, outside normal working hours are encouraged to contact the Police and Public Safety Department. Security officers will periodically check on your safety while you are here.

## Public Safety

### Public Safety

Police and Public Safety Department

6001 Dodge St.

Eppley Administration Building Room 100

402.554.2648

For ON-CAMPUS EMERGENCIES dial 402.554-2911.

UN Police and Public Safety Department is available to the University community 24-hours a day, protecting life and property, providing building and grounds patrol; enforcing traffic and parking rules and regulations, and encouraging everyone to follow University regulations; UNPPSD also maintains the University Access Control system, and provides crime prevention programs for all persons on campus.

## Services

The Police and Public Safety Department provides assistance to motorists 24 hours a day. Officers respond to vehicles located on campus to help get your vehicle started, open a locked vehicle, and will assist in inflating a tire where possible.

## Security

Buildings are patrolled 24 hours daily. Anyone found in a UNO building after established closing hours, without a UNO identification card, will be asked to leave. Report items stolen or damaged to UNPPSD.

## Research

### Research

At UNO, research is thriving because our students have access to resources they might not find at another university. Undergraduate and graduate students work with our faculty to understand and uncover new and innovative methods for solving problems. Learn more about the research at UNO (<https://www.unomaha.edu/research/>).

## Scholarships

### Scholarships

UNO has established a wide range of scholarship programs to recognize excellent high school achievement by first-year students and exceptional scholastic performance by upper-class students already in attendance at the university. For more information:

Office of Financial Support and Scholarships

103 Eppley Administration Building

Omaha, NE, 68182

402.554.2327

[financialaid.unomaha.edu](http://financialaid.unomaha.edu/) (<http://financialaid.unomaha.edu/>)

## Speech Center

### Speech Center

The UNO Speech Center assists all UNO students, faculty, and staff in preparing oral presentations and/or incorporating them into their courses.

The Speech Consulting Room provides consulting and coaching services for all UNO students, graduate students, faculty, and staff from all disciplines, assistance to faculty in support of Speaking Across the Curriculum effort at UNO and assessment documentation for the UNO oral communication general education requirement.

The Speech Center (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/speech-center/>) is located in 183 and 185 Arts & Science Hall, or can be reached at 402.554.3201.

## Student Conduct and Community Standards

### Student Conduct and Community Standards

The university has an obligation to maintain conditions under which the work of UNO can go forward freely, in accordance with the highest standards of quality, institutional integrity, and freedom of expression, with full recognition by all concerned of the right and privileges, as well as the responsibilities, of those who comprise the UNO community. UNO expects students to maintain standards of personal integrity that are in accordance with the goals of the institution. This means that students are expected to assume responsibility for their actions; observe national, state, and local laws and university policies; and respect the rights and property of other people. As members of the academic community, students are subject to the responsibilities laid out by the university and are urged to become familiar with all documents that pertain to their rights and responsibilities. View the full Student Code of Conduct (<https://www.unomaha.edu/student-life/student-conduct-and-community-standards/policies/code-of-conduct.php>). For more information, contact the Office of Student Conduct and Community Standards visit the Student Conduct and Community Standards website (<https://www.unomaha.edu/student-life/student-conduct-and-community-standards/>) or email [unoconduct@unomaha.edu](mailto:unoconduct@unomaha.edu).

## Student Involvement

### Student Involvement

The college experience at UNO is not just about what takes place in the classroom, lab, and library while students earn their degree. The Office of Student Leadership, Involvement, and Inclusion (SLII) will have countless opportunities for students to pursue their favorite activities, discover new interest, refine their skills, and build lifelong friendships. SLII is home of student government with a growing number of student-led organizations and a student-run newspaper.

## Omaha Greeks

The fraternity and sorority community at UNO, better known as Omaha Greeks, serves to enhance the growth and development of UNO students through their engagement within these historical organizations. SLII aims to provide an integrative learning environment that fosters a sense of belonging for the individual student rooted in a shared commitment to their fraternal oath.

## Student Government

The UNO Student Government Association represents all UNO students to administration, faculty, and staff, as well as the University of Nebraska Board of Regents and the community. They strive to lead, support, and advocate on behalf of the student body to make lasting and positive contributions to the student experience.

## Maverick Productions

Maverick Productions (MavPro) is a student led programming board that plans and executes events for students by students. These events include major concerts, fun giveaways, and other interactive events! MavPro strives to plan events that bring in students from all parts of campus to support the Maverick Community.

## Cultural Programs

SLII focuses on collaborative efforts within the university as well as community partners. These cultural celebrations provide students with unique opportunities to experience culturally rich identities that represent the greater Omaha area.

## Office Services and Amenities

SLII offers free services to printing, computer labs, private study pods, FAFSA workshops, research assistance from Criss Library, math tutoring, and Counseling and psychological service support. We hold a safe space and educational environment for UNO students to learn and model.

## Scholarships

SLII offers scholarship that are open to students enrolled at UNO. Each award is based on students' academic effort, campus and community activity, and financial need. These scholarships these amounts are disbursed evenly between fall and spring semester provided enrollment requirements are met.

## Campus And Community Outreach

SLII staff encourage and advocate for students to reach their full potential, such as supporting students in finding employment opportunities, internships, campus resources, and more develop both academically, personally and professionally.

## Student Legal Services

### Student Legal Services

The office of Student Legal Services offers free legal assistance to all currently enrolled UNO students. All communication is completely confidential and cannot be shared with anyone. The office can provide court representation, document preparation, legal advice and counsel, and legal information. All legal matters are welcome, however, the office is unable to assist with legal issues with other students as well as issues with the University or its affiliates. Visit the Student Legal Services website (<https://www.unomaha.edu/student-life/student-safety/student-legal-services/>).

## Student Life & Wellbeing

### Student Life & Wellbeing

The services provided by the Division of Student Life and Wellbeing (SLW) are designed to promote the growth and development of the whole student – intellectually, physically, emotionally, socially, financially, environmentally, occupationally and spiritually – to allow students to develop skills that lead to success both during school and throughout life. The SLW Division provides an integrated, holistic approach to both curricular and co-curricular learning by providing support, activities, and engagement that enriches the student experience on campus and better prepares them to be an active and engaged citizens in our global community.



## Mission

The Division of Student Life and Wellbeing cultivates an inclusive, caring, student centered community through meaningful connection and involvement.

## Vision

Student Life and Wellbeing strives to be a division that fosters comprehensive opportunities that inspire and empower students towards self-compassion, self-advocacy, and holistic wellness.

# Testing Center

## Testing Center

The University of Nebraska at Omaha (UNO) Testing Center provides a variety of services to UNO students, faculty and staff. These services extend into the metropolitan Omaha region and beyond to persons needing testing related assistance. The types of services include university placement exams, university make-up exams, certification/licensure exams, online distance education exams, admission exams, proficiency exams, national exams, credit by examination, proctored correspondence exams and testing accommodations for students with disabilities. The Testing Center will also consider special requests associated with individual needs. For more information regarding testing services, please contact:

The University of Nebraska at Omaha  
Testing Center  
522 Kayser Hall  
Omaha, NE 68182-0318  
402.554.4800  
[testingcenter.unomaha.edu \(http://testingcenter.unomaha.edu/\)](http://testingcenter.unomaha.edu/)

## Placement Exams

Placement exams may need to be taken prior to registering for an English, mathematics, chemistry, or foreign language course. Placement exams help ensure that a student enrolls in the correct courses based on their academic skill level. Additional information for placement exams can be found here (<https://www.unomaha.edu/enrollment-management/testing-center/information.php>).

## Accommodated Testing

UNO supports students with disabilities and encourages their full participation in all academic programs. The Testing Center is available to UNO students with a disability who require testing accommodations that are approved as part of their UNO Accessibility Services Center Accommodation Plan. The Testing Center works with the Accessibility Services Center to provide a secure, quiet, and controlled environment for accommodated testing exams.

Advanced scheduling is necessary for testing accommodations which are determined by referral from the Accessibility Services Center director. Available accommodations include, but are not limited to:

- A separate room
- Reduced distraction space
- Reader
- Scribe
- Word processor
- Large print
- Extended time

- Job Access With Speech (JAWS)

In accordance with Section II of the Americans Disabilities Act and Section 504 of the Rehabilitation Act, UNO's Accessibility Services Center is the designated office to work with students with disabilities to identify and set up a plan to provide reasonable accommodation so they may enjoy the same benefits, experiences, and opportunities as persons without disabilities. The Testing Center is the designated office on campus to provide any identified student accommodations that involve testing. For more information about accommodation plans, contact the Accessibility Services Center at 402.554.2872.

## Credit by Department at UNO

Credit by Department allows students the opportunity to gain academic credit for prior learning they have acquired by self-study or experience. Tests may be taken in many subject areas, and credit may be earned by achieving acceptable scores on these tests. Departments may also establish other ways than an exam for a student to show proficiency and earn academic credit. Contact the Department to see what opportunities exist. Benefits include saving tuition dollars and shortening the time it takes to earn a degree.

Students can earn credit at UNO through the College-Level Examination Program (CLEP) and UNO's Credit by Department.

Many postsecondary institutions now offer credit based on CLEP examinations annually. The CLEP exams include General Examinations and Subject Examinations. Both are designed to measure factual knowledge and understanding, problem-solving ability, and mastery of college-level, introductory course content in a wide range of disciplines.

UNO's Credit by Department procedure can involve taking a test or showing proficiency in some other way to earn academic credit. These opportunities for credit are constructed by the Department for the purpose of measuring knowledge in a particular course being offered at UNO. Credit is granted for the course upon demonstrating successful proficiency.

- Credit by Department may not be attempted more than once for a course.
- A student who has failed to earn credit in an attempted college course may not receive Credit by Department in the same course. Neither will credit be granted to raise a grade earned in any course.
- A maximum of 30 hours Credit by Department (the College of Business has a limit of 24 hours) may be applied toward graduation, e.g., CLEP, by Department, etc.
- Credits earned from CLEP or by Department may not be used as part of the terminal residency requirements, so you should check the requirements of your college.
- Students attempting Credit by Department must be registered at UNO at that time. (Registration is not required to take CLEP exams.) You must be a UNO student to have the credit applied to UNO.
- Students attempting CLEP Exams and other Credit by Department opportunities for courses in which they are currently enrolled must do so before they have completed one month of the course.
- Credit by Department will not be given for courses that are prerequisites for courses that the student has already earned credit. For exceptions, check with the Department.
- Credit earned on a General Examination or another opportunity created by the Department will be reduced by the amount of comparable credit already earned in the division.

The fee for each CLEP exam is \$95.00. **This is paid online directly to CLEP. A ticket containing the exam name and ticket number is printed after completing the online transaction and brought to the Testing Center (required) on exam day.** (You must pay separately for each exam you take). There is also a \$25.00 fee for administering the exam paid to the UNO Testing Center on exam day prior to taking the



exam. Visit [clep.collegeboard.org](https://clep.collegeboard.org/) (<https://clep.collegeboard.org/>) to see the CLEP informational bulletin for more details and Military Benefits. Prior to attempting to demonstrate successful proficiency in a course that is constructed by the Department, a \$40.00 fee is paid to the UNO Testing Center. (Fees are subject to change.)

Credit earned by Department will be recorded as "CR" on the transcript, and this credit will not be used in calculating grade point average.

If you need additional information or have any questions, feel free to stop by (522 KH) or call the Testing Center at 402.554.4800. Questions regarding Credit by Department other than those noted should be directed to the appropriate Department.

## DE (Online Distance Education) Exams

Online Distance Education (DE) Exams are proctored for faculty teaching Hybrid classes who have made arrangements for this service with the Testing Center. A student enrolled in a DE course that has an exam to be taken at the Testing Center will need to register (<https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/how-to-register.php>) for their testing appointments via MavLINK (<http://mavlink.unomaha.edu/>).

**Note:** A student should check-in on the day, prior to the exam time they scheduled, when they registered in MavLINK. You will not be able to take the Exam if you check-in outside the date/time window established by your professor

The UNO Testing Center administers Online Distance Education (DE) Exams Monday–Friday in the Testing Center, on the day and time scheduled by the student within the date/time window established by the professor.

## Correspondence (Proctored Exams)

The UNO Testing Center offers proctoring services to individuals that need to take proctored exams from institutions other than UNO.

These include, but are not limited to:

- College course exams
- College entrance exams
- Certification exams

The examinee is responsible for following the institution's procedures for completing the exam(s). This may include but not be limited to completing the institution's proctor agreement form.

Examinees must contact the UNO Testing Center in advance with testing dates and any other institution requirements needed to schedule an appointment.

For additional information and/or to schedule an appointment for a Correspondence Proctored Exam, contact the UNO Testing Center Office at **402.554.4800**.

## National Exams

The Testing Center administers many types of national exams including those for Admission, Proficiency, Certification, or Licensure purposes. Among exams offered are the Graduate Record Exam (GRE), GRE Subject Tests, PRAXIS series exams, ACT Assessment, Test of English as a Foreign Language (TOEFL), Test of English for International Communications (TOEIC), DSST exams formerly known as DANTES Subject Standardized Tests, Clinical Mental Health Counseling Exam (CMHC), International Fluid Power Society (IFPS) Exams, and Major Field Test (MFT). The Testing Center contracts with the following testing companies to administer many other certification/licensure exams: PSI, PAN, Measure Learning, Kryterion,

Iso-Quality, Prov and Educational Testing Service (ETS). Each testing company may have a suite of 400-4,000 different exams.

## Make-Up Exams

Make-Up Exams are proctored for all UNO faculty who have an arrangement with the Testing Center for this service.

Faculty approved students who have a Make-Up Exam to be taken at the Testing Center will need to schedule their testing appointment in MavLINK.

Students wanting to use their UNO Accessibility Services approved testing accommodations should select the accommodations during the registration process in Mavlink. Contact the Testing Center at 402.554.4800 or email at [unotestingcenter@unomaha.edu](mailto:unotestingcenter@unomaha.edu) with any questions.

## Title IX

### Title IX

Title IX is a comprehensive federal law that prohibits discrimination on the basis of sex (including gender identity) in any federally funded education program or activity.

To contact the Title IX Coordinator:

Phone: 402.554.2120

Email: [equity@unomaha.edu](mailto:equity@unomaha.edu)

Learn more about Title IX (<https://www.unomaha.edu/university-compliance/civil-rights/title-ix-information/>).

## TRIO Project Achieve

### TRIO Project Achieve

Project Achieve is open to University of Nebraska Omaha undergraduates who qualify as first-generation, limited income, and/or disabled college students. The program offers academic and life skills development; guidance related to financial aid; career and graduate study preparation; leadership development through community engagement; and personal counseling. Activities and services emphasize growth in becoming more efficient, engaged, and independent learners.

Project Achieve uses a flexible and personalized approach. Each student is encouraged to participate in activities which meet his, her, or their own learning needs. Students and staff work together in assessing students' skills in relation to education and career goals. Personal interviews, review of academic records, checklists and diagnostic tests may be used in this process

Learn more about Project Achieve (<https://www.unomaha.edu/project-achieve/>)

## University Building Access

### University Building Access

The Police and Public Safety Department is responsible for the control of the university electronic access and key system. Eligible University employees should make requests for access (electronic or keyed) through their department chairperson.

## UNO Care Team

### UNO Care Team

The Care Team (<https://www.unomaha.edu/student-life/student-safety/how-to-report/uno-care-team.php>) is a small group of staff and faculty who work to address concerns related to health and safety within our campus community. The Care Team supports all Mavericks struggling with academics, life circumstances, or any other situation; we also provide support to faculty and staff who are concerned about a student. Anyone, including all students, faculty, staff, and others, who are concerned about a student can submit a referral to the Care Team. Students can even submit a referral for themselves to get help. The Care Team referral form can be found here. ([https://cm.maxient.com/reportingform.php?UnivofNebraskaOmaha&layout\\_id=10](https://cm.maxient.com/reportingform.php?UnivofNebraskaOmaha&layout_id=10)) You can also contact us at [unocareteam@unomaha.edu](mailto:unocareteam@unomaha.edu) or 402.554.CARE (2273).

## UNO Graduate Studies

### UNO Graduate Studies

For over 100 years, the University of Nebraska at Omaha (UNO) has empowered professionals to advance their careers through affordable, innovative graduate programs. With more than 90 offerings at the doctoral, master's, specialist, and graduate certificate levels, UNO offers access to exceptional education.

As a Carnegie Doctoral Research University, UNO is home to award-winning faculty who lead in their fields and are dedicated to mentoring student success. Explore opportunities on the Graduate Studies website (<https://www.unomaha.edu/graduate-studies/>).

## UNO Libraries

### Criss Library

The Dr. C.C. and Mabel L. Criss Library (Criss Library) fulfills the UNO mission through dynamic services, highly qualified and adaptive personnel, unique and extensive collections, and accessible learning spaces and environments.

Criss Library is centrally located on UNO's Dodge campus, and is an inclusive and engaged space for teaching, learning, research, and service. Collaborative spaces include: flexible seating on our lower and main levels; group study rooms equipped with monitors, screen sharing technology, and whiteboards; and four instruction labs, including two with laptops and configurable seating. For focused learning, the library has individual study rooms, and maintains quiet study space throughout the third floor.

The Creative Production Lab offers one-on-one help for students, faculty, and staff to explore their creative interests and learn how to use cutting-edge hardware and software, including virtual reality, laser cutting, 3D printing and scanning, and multi-media production.

The Archives & Special Collections acquires and preserves unique, rare, and specialized materials, and provides expertise on incorporating these materials into creative projects. The department's diverse collections include the University Archives, U.S. Senator Chuck Hagel Archives, as well as other special collections including regional history, rare books, and the Arthur Paul Afghanistan Collection.

Additional spaces of note include: an outdoor garden patio, theater room, and the H. Don and Connie Osborne Family Art Gallery.

The library's collection supports the teaching, learning, research, and creative needs of students, faculty, and staff through a variety of formats including, print and e-books, physical and streaming media, digital image collections, journals, newspapers, electronic databases, and government

documents. Material not available in the Criss Library collection can be borrowed from other libraries via Interlibrary Loan.

Librarians are available both in person and online to answer questions, help students and faculty use library resources, and assist with research when and where it is needed. Librarians also offer instruction sessions tailored toward a particular course or assignment.

For additional information, visit [library.unomaha.edu](http://library.unomaha.edu) (<http://library.unomaha.edu/>).

## Wellness

### Counseling and Psychological Services (CAPS)

#### Caring Staff

Our office is staffed by licensed mental health practitioners and two graduate interns who are eager to create a vibrant and safe campus community in which psychological health and academic life flourish for our diverse student body. CAPS' staff is committed to providing support and encouraging your personal growth.

#### Personal Counseling

Concerns, struggles, and changes are all normal parts of life. Sometimes we can work through them on our own; other times, talking to a professional can help. CAPS offers a safe, confidential atmosphere in which personal concerns can be openly explored and discussed within a culturally inclusive environment. Topics often include anxiety, depression, alcohol and drug issues, goal setting, grief and loss, relationships, sexual identity, self-esteem, and stress. CAPS can also assist with referrals to campus resources and community providers for students needing longer-term support. Appointments may be made by stopping by the CAPS office at the Wellness Center, 101 Health and Kinesiology building, or by calling 402.554.2409. Learn more on the Counseling and Psychological Services website (<https://www.unomaha.edu/student-life/wellness/counseling-center/>).

## Health Services

### Nebraska Medicine UNO Health Center

The UNO Health Center is an on-campus medical clinic that helps UNO students stay healthy while they're in school. It is staffed by board-certified medical professionals who specialize in college health. Services include care for common illnesses and injuries, wellness exams, chronic illness management, sexually transmitted infections testing and treatment, gynecological care and birth control, a variety of immunizations, lab testing and more. In addition to medical services, the UNO Health Center offers health and wellness education through presentations, on-campus outreach booths and the Health Matters blog. The health center is in the Wellness Center, 102 H&K, and is open Monday through Friday from 8 a.m. to 4 p.m. year-round. In-person and telehealth visit options are available depending on the concern. Appointments are required for care and can be made by calling 402.554.2374 or online at [healthcenter.unomaha.edu](http://healthcenter.unomaha.edu).

#### Costs

The University Program and Facilities Fee covers the cost of certain services, but it does not cover all possible charges. Services not covered by student fees can be submitted to the student's health insurance plan. Nebraska Medicine accepts most insurance plans. If you do not have insurance, financial assistance may be available through Nebraska Medicine. Learn more at <https://www.unomaha.edu/nebraska-medicine-uno-health-center/index.php> (<https://www.unomaha.edu/nebraska-medicine-uno-health-center/>).

## Maverick Food Pantry

Located in the Barbara Weitz Community Engagement Center, the Maverick Food Pantry (MFP) contributes to UNO's culture of caring by providing students with food, toiletries, personal hygiene items, school supplies, menstrual products, sexual health products, diapers, and parenting supplies. The MFP also connects students with resources in the greater Omaha area for other basic needs support.

Other MFP Services:

- The *Oh SNAP!* program serves students with eligibility questions and application assistance for the Supplemental Nutrition Assistance Program.
- Once a month, the MFP partners with other on-campus groups to host "pop-up" closets to distribute free clothing.
- During the growing season, the MFP's Community Garden grows produce on campus to distribute in the pantry.

Overall, the Maverick Food Pantry team works to spread awareness and destigmatize basic needs insecurity on UNO's campus.

## Writing Center

### Writing Center

The Writing Center invites UNO students, faculty, and staff in all university divisions to work with writing consultants on writing projects. You may use this free service to work on writing assignments, application essays, business letters or other projects. Our goal is to help you become an effective, independent writer; we will not edit papers for you: we will help you develop the ability to edit your own work. The writing consultants are undergraduate students, graduate teaching assistants from the English Department, and graduate consultants funded by Graduate Studies and UNMC.

The Writing Center offers in-person and online services whenever classes are in session. To schedule a 30 or 60 minute appointment, visit the Writing Center website (<http://www.unomaha.edu/college-of-arts-and-sciences/writing-center/>) or call 402.554.2946.



# UNDERGRADUATE

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## College of Arts and Sciences

### Vision Statement

To be recognized and respected throughout the United States as one of the premier Colleges of Arts and Sciences at a metropolitan university, maximizing our resources to build exceptional programs related to teaching, scholarship, creative activity, outreach, and service.

### Mission Statement

The College of Arts and Sciences is a liberal arts college within a metropolitan university. The college serves as UNO's standard-bearer for the tradition of liberal education, which emphasizes the importance of breadth of knowing and ways of knowing as central to a student's education, and prepares students for the 21st century workforce.

Courses of instruction are offered in the humanities, social sciences, and natural sciences/mathematics to support a liberal education for the students of the college and to provide a significant portion of the general education requirements of the university. We offer disciplinary and interdisciplinary majors and minors at the bachelor's, master's, and doctoral levels. The college is committed to outstanding teaching and to significant scholarship and research activities of its faculty and students and encourages involvement with our metropolitan community and the world at large.

## General Information

The College of Arts and Sciences offers Bachelor of Arts and Bachelor of Science degrees, with a variety of majors from the humanities, social sciences and natural sciences. The College also offers advising for many pre-professional programs preparing students for graduate or professional schools in medicine, allied health and law.

Academic majors are available in the following fields: biology, molecular and biomedical biology, black studies, chemistry, economics, English, environmental science, general science, geography, geology, history, interdisciplinary studies, international studies, Latino/Latin American studies, mathematics, medical humanities, neuroscience, pharmaceutical sciences, philosophy, physics, political science, psychology, religion, sociology, women's and gender studies, and world languages and literature.

The pre-professional programs of study are determined largely by the requirements of the graduate or professional schools which students intend to enter. If planned carefully, the requirements for a pre-professional program can also meet many of the requirements for a B.A. or B.S. degree. These pre-professional programs are not academic majors and a student seeking a degree from UNO must complete the requirements of a major as well. Pre-professional information can be found on the Arts and Sciences website (<https://www.unomaha.edu/college-of-arts-and-sciences/>).

## Accreditation Information

| Major                | Degree   | Accreditation Body   |
|----------------------|----------|--|
| Chemistry            | BA/BS    | American Chemical Society (ACS)  |
| School of Psychology | MS Ed.S. | - Recognized by the National Association of School Psychologists (NASP) and the National Council for Accreditation of Teacher Education (NCATE) - Nebraska Department of Education |

## Contact Information:

Arts and Sciences Advising Center  
220 Arts and Sciences Hall  
402.554.2458

**College Website (<http://www.unomaha.edu/college-of-arts-and-sciences/>)**

## Admission Requirements

All students who have not yet earned any college credit and who are eligible to enter the university are accepted for admission to the college. However, admission of transfer students or students who have previously been enrolled at UNO is evaluated on an individual basis. A 2.0 grade point average in previous course work is required for non-exploratory students.

Application deadline for admission is the same as that for the university.

## Academic Requirements for the College Degrees

### Number of Hours to Graduate

College Rules

### Upper-Division Rule

Students must have at least 18 hours of upper-division course work in their major and a total of at least 27 credit hours of upper-division work (3000 or 4000-level courses).

### Forty-Five Hour Rule

No candidate may count more than 45 credits in any one discipline toward completion of a major.

### Four Hour Rule

No candidate may count more than four out of 120 credits in physical education activity classes.

## Overlapping Restrictions

Courses that are taken toward the completion of two or more programs are subject to restrictions, as determined by the individual programs. If differences in policies exist, the policy that allows the fewest number of course overlap will be enforced. When possible, known course overlap restrictions are explicitly stated in the individual program catalog pages and enforced in the degree audit system. Still, not all combinations can be accounted for and may not be accurately reflected in a degree audit, or stated in the program catalog pages. It is imperative for students to work closely with their advisor for guidance when thinking about declaring another program of study that shares some course requirements between

them. Taking distinct courses for each program is generally advised to avoid overlap issues.

Separate from course overlap restrictions between two or more academic programs such as majors and minors, the College of Arts and Sciences limits the amount of overlap that can exist between the different components of our BA and BS degrees. Specifically, the College of Arts and Sciences' Breadth Requirement asks students to select any one of the following to fulfill the requirement: Option I-Minor; Option II-Additional General Education; Option III-Double Major or Comprehensive major. Cognate coursework may not also be applied toward the minor or double major satisfying the College of Arts and Sciences Breadth Requirement unless explicitly approved by the Educational Policy Committee of the College. Additionally, the BS cognate coursework should complement the student's major, with courses selected from cognate fields outside the student's major department. Students can overlap one BS cognate course or one BA world language course with the university general education requirements or Option II additional general education coursework. Questions may be directed to the Arts and Sciences Advising Center.

## Minimum GPA/Additional Requirements

Students seeking a degree must maintain an average grade of at least "C" (2.0) in all college work, including work transferred from other institutions.

## Specific College of Arts & Sciences' Breadth Requirements

**Students must complete one of the three following options:**

### Option I: Minor

Students may complete any UNO minor. Courses counting toward the minor may not also be used toward the student's cognate requirements without approval by the Educational Policy Committee of the College. See the respective departmental requirements for details. Minors offered in the College of Arts and Sciences include: ancient Mediterranean studies, anthropology, biology, molecular and biomedical biology, black studies, chemistry, Chicano-Latino/a studies, economics, English, environmental science, ethics, film studies, geography, geology, history, holocaust & genocide studies, human rights studies, international studies, Islamic studies, leadership & public policy, LGBTQ-Sexuality studies, mathematics, medical humanities, Medieval/Renaissance studies, Native American studies, neuroscience, philosophy, physics, political science, psychology, religion, sociology, sustainability, women's and gender studies, and world language and literature (French, German, and Spanish). See the respective programs for details.

### Option II: Additional General Education

The University has established minimum General Education requirements. This option is designed to further the purposes of liberal education by encouraging students to explore coursework in other areas.

#### Humanities/Fine Arts (nine additional credit hours)

- Three additional credit hours from a second discipline
- HIST 1000 – World History to 1500 is required
- HIST 1010 – World History since 1500 is required

Transfer students who have taken two semesters of Western Civilization may count three hours toward the World History since 1500 requirement (HIST 1010) and then take three hours of HIST 1000 to complete their World History requirement, or they may take HIST 2190.

#### Social Sciences (three additional credit hours)

- Three additional credit hours from a second discipline.

**Natural and Physical Sciences** (three to five additional credit hours with or without a lab)

- Three to five additional credit hours with or without a corresponding lab.

#### Quantitative Literacy (three additional credit hours)

- Three additional credit hours from the university-approved list of quantitative literacy courses.

## Option III: Comprehensive/Double Major

Students may earn more than one major or complete a comprehensive major approved by the College curriculum committee for this option.

These comprehensive majors will require more than 50 credit hours total. Approved comprehensive majors are biology B.S. with education concentration, chemistry B.S. with a concentration in chemistry education, environmental science, interdisciplinary studies with individualized or integrative concentrations, mathematics B.A. or B.S. with mathematics education concentration, neuroscience, and physics B.S. with a concentration in physics education.

## Requirements for the Bachelor of Arts Degree

Students pursuing a Bachelor of Arts degree must complete a major, including at least 18 credit hours of upper-division work (3000 or 4000-level courses) designated as appropriate by the faculty in one of the following fields: biology, chemistry, economics, English, world language and literature, geography, geology, history, interdisciplinary studies, international studies, Latino/Latin American studies, mathematics, medical humanities, philosophy, physics, political science, psychology, religion, sociology, and women and gender studies. A student meeting the requirements in each of two fields may present a double major in these fields, provided that the disciplines do not overlap significantly in requirements and a total of at least 27 credit hours of upper-division work (3000 or 4000-level courses) is completed.

For Bachelor of Arts students, world language through the intermediate level is required, as described in the next paragraph.

## World Language

For Bachelor of Arts degree-seeking students only, students must complete 16 credit hours of college work in one world language, American Sign Language, or equivalent. This is generally accomplished by completing levels I, II, III, and IV of any one world language. One course may be used toward the BA and general education requirements.

## Special circumstances:

- Students with prior experience in a world language may satisfy the BA world language requirement in fewer than 16 credits with successful completion of level IV in a college world language.
- High school language coursework may satisfy the BA world language requirement if successfully completed through the equivalent of a level IV college world language.
- Speakers of native languages should consult their advisor to discuss options.
- For unusual circumstances, please contact the Arts and Sciences Advising Center.

To enroll in any French, German, Japanese, or Spanish course beyond 1110, a student who has not successfully completed the prerequisite courses at UNO must take the appropriate placement exam and qualify for the desired course. All students are subject to this requirement, including transfer students (including those from UNK/UNL). The Department of World Languages and Literature reserves the right to cancel the registration of any student who has not met the prerequisites for a course. Transfer courses at the 3000/4000 level are subject to the approval of a departmental adviser.

and the department chair. All world language courses must be completed with a grade of "C-" or better to continue to the next course.

The Department of World Languages and Literature will grant retroactive credit for French, German, Japanese, or Spanish 1110, 1120, 2110, or 2120 subject to the following conditions:

- a student who completes any French, German, Japanese, or Spanish course in the 1120-2120 sequence with a grade of "C-" (1.67) or better at UNO without having completed the previous courses may be granted retroactive credit for those previous courses;
- a student who completes a 3000-level course in French, German, or Spanish with a grade of "C-" (1.67) or better at UNO without having completed the 1110-2120 sequence may be granted retroactive credit for any of the courses 1110, 1120, 2110, and 2120 for which credit has not already been earned.
- Please refer to the Department of World Languages and Literature for questions and assistance with retroactive credits.

## Requirements for the Bachelor of Science Degree

The Bachelor of Science degree provides greater opportunity for concentrated and specialized study in a particular field, generally in the natural or social sciences. The requirements for the Bachelor of Science degree are the same as those for the Bachelor of Arts degree except as follows: Each degree candidate must complete a major including at least 18 credit hours of upper-division work (3000 or 4000-level) designated as appropriate by the faculty in one of the following fields: biology, black studies, chemistry, economics, environmental science, general science, geography, geology, history, interdisciplinary studies, mathematics, medical humanities, molecular and biomedical biology, neuroscience, pharmaceutical sciences, physics, political science, psychology, and sociology. A student meeting the requirements in each of two fields may present a double major in these fields, provided that the disciplines do not overlap significantly in requirements and a total of at least 27 credit hours of upper-division work (3000 or 4000-level courses) is completed.

World language is not required for students completing a B.S. degree. Instead, students must complete cognate courses as described in the next paragraph.

## Cognate Courses

Each Bachelor of Science degree requires a minimum of 15 credit hours from cognate fields outside the student's major department. One course may be used toward the general education requirements. These cognate courses should complement the student's work within the major. Cognate coursework may not also be applied toward the minor or double major satisfying the College of Arts and Sciences Breadth Requirement unless explicitly approved by the Educational Policy Committee of the College. Beyond these criteria, the major department will determine the approval of cognate coursework for each student. See the respective departmental requirements for details.

## Transfer Credit Policy

The University allows the transfer of a maximum of 64 credit hours from community colleges. STEM majors may transfer 67 credit hours from community colleges. The Arts and Sciences Advising Center should be contacted for information on the transferability of courses applying to College of Arts and Sciences requirements. Students may be referred to departmental advisors for transferability of courses toward major or minor requirements.

Courses taken at a community college that are upper-division level courses in the College of Arts and Sciences may not be counted as equivalent to upper-division Arts and Sciences courses. At the discretion of the advisor

and the department, these courses may be used toward required or elective coursework but may not be used to meet upper-division requirements.

## Unacceptable Credits

Remedial, developmental, or technical coursework may not be used toward the fulfillment of the 120 credit hour requirement.

## Retroactive Credit Policy

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Advanced Placement Credits

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Military Credit

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## IB Credit

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Placement Exams and Credit by Department Policies/Practices

<https://nextcatalog.unomaha.edu/aboutuno/student-services-a-z/testing-center/> (p. 63)

## Residency Requirement

At least 30 of the last 36 credits of a student's bachelor's degree must be taken at UNO. A maximum number of transfer credits may be applied to Arts and Sciences majors and minors. Please consult the Arts and Sciences Advising Center for further information.

## Quality of Work

Students seeking a degree must maintain an average grade of at least "C" (2.0) in all college work, including work transferred from other institutions. Students must earn a grade of at least "C-" (1.67) in all coursework intended to satisfy general education, major or minor requirements, however some majors may require a minimum of a "C" (2.0). (Courses passed with less than a C- can still count as elective credit used towards the 120 credits needed to graduate, but will not satisfy specific requirements.) To qualify for a grade of "CR" in any course in the College of Arts and Sciences, a student must earn a grade of at least "C-" (1.67) in that course. All grades reported by the faculty to the registrar become part of the students' permanent records and are included in the computation of their grade point averages, even though some of these grades may be for work done in excess of the 120 hours required for graduation. In order to graduate, students must attain a minimum cumulative GPA of 2.0 ("C"). The only exception to this rule is provided in the section of these requirements entitled "Amnesty Clause."

## Good Academic Standing Policy

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Credit/No Credit (CR/NC) Grades

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Completion of Incomplete Grade

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Repeatable Grades/Courses

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Appeal Process

### Summary

The College of Arts and Sciences establishes the following procedures for review of grade appeal cases for all Arts & Sciences courses. In keeping with *The University of Nebraska Board of Regents Bylaws and Policies*, the College provides an appeals procedure for students who believe that evaluation of their academic progress has been prejudiced or capricious.

If all attempts at informal resolution fail, a student may file a formal written grade appeal with the appropriate department chair or program administrator within the first four weeks of the next regular semester.<sup>[1]</sup> ([https://www.unomaha.edu/college-of-arts-and-sciences/information/grade-appeal.php#\\_ftn1](https://www.unomaha.edu/college-of-arts-and-sciences/information/grade-appeal.php#_ftn1)) If either a student or an instructor wishes to appeal a department or program grade appeal decision, the student or instructor may file a formal appeal with the College. The College appeal (<https://www.unomaha.edu/college-of-arts-and-sciences/information/grade-appeal.php#college>) is the final level of grade appeal.

### I. Department or Program-level Procedure

1. A student wishing to contest a grade should first consult the instructor for the course to make certain that the disputed grade is not the result of simple error or misunderstanding. It is recommended that the student contact the instructor immediately after the final course grade is posted. If the instructor is unavailable, the student should contact the department chair or program administrator.
2. If the student and instructor are unable to resolve the conflict informally, the student should contact the department chair or program administrator who may attempt informal mediation. It is recommended that all informal consultations be concluded within the first two to three weeks of the next regular semester. Timeline (<https://www.unomaha.edu/college-of-arts-and-sciences/information/grade-appeal.php#timeline>)
3. If attempts at informal resolution fail, a student may file a formal written appeal with the department chair or program administrator within the first four weeks of the next regular semester. The written appeal must include explanation and evidence of prejudice or caprice in grading and an explicit statement regarding the outcome the student seeks. Evidence should include pertinent course materials, such as the course outline or syllabus, written instructions for assignments, and graded student work. The chair or administrator will form a grade appeal committee and provide a copy of the written appeal to the instructor.
4. Following receipt of the written appeal, the instructor has up to one week to provide a written response to the appeal to the department or program committee.
5. The department or program appeal committee must conclude appeal deliberations and communicate a decision to the student and instructor within two weeks of receipt of the instructor's response. The appeal committee must be composed of at least three faculty and at least one student. If the committee finds that prejudice or caprice affected the final grade, the department chair or program administrator will change the student's grade.
6. The department or program committee must submit a report to the associate dean of undergraduate education for the College of Arts & Sciences. Submissions may be sent to the Dean's Office at [unocasdean@unomaha.edu](mailto:unocasdean@unomaha.edu) or Arts & Sciences Hall, Room #280 within one week of its final decision. The report must include the following:
  - the student appeal
  - the instructor response
  - a list of all grade appeal committee members
  - copies of any documents consulted in developing the final grade appeal decision
  - a statement from the chair, administrator, or grade appeal committee chair including an explanation of how the department's procedures were followed, a timeline of the appeals process, a rationale for the final decision, and an explanation of how the final course grade was calculated.

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[1] Regular semesters are fall and spring semesters. To appeal a grade from a fall course, the student must file a written appeal within the first four weeks of the next spring semester. To appeal a grade from a spring course, the student must file a written appeal within the first four weeks of the next fall semester. To appeal a grade from a summer course, the student must file a written appeal within the first four weeks of the next fall semester.

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### II. College-level Procedure

**A. UNO Graduate Studies (graduate courses)**  
**Students and faculty wishing to file an appeal of a department or program grade appeal decision for a graduate course should contact the Graduate Studies Office at UNO (<https://www.unomaha.edu/graduate-studies/>) for information on Graduate College procedure. The following College of Arts & Sciences procedure does not apply.**

**B. College of Arts & Sciences (undergraduate courses)**

1. Any student or instructor wishing to file an appeal of a department or program appeal committee decision must submit a written appeal to the associate dean of undergraduate education for the College of Arts & Sciences within one week after that decision. Such appeals may be sent to the Dean's Office at [unocasdean@unomaha.edu](mailto:unocasdean@unomaha.edu) or Arts & Sciences Hall, Room #280 and must include the following:
  - an account of the facts surrounding the awarding of the disputed grade;
  - a complete account of steps taken at the department or program level to resolve the dispute;
  - copies of documents relevant to the grade appeal, including a copy of the course syllabus;
  - an explanation of how the relevant grades were calculated/miscalculated.
2. Upon receiving the written appeal, the associate dean of undergraduate education will notify the chair of the College of Arts & Sciences Educational Policy Committee (EPC) of the need to convene an appeal committee and will forward the department's report as well as the written appeal to the EPC chair. The associate dean of undergraduate education will also notify the dean of the need to appoint two student committee members.
3. The College appeal committee will include all members of the EPC who are not members of the department in question and at least two student members who are appointed by the dean. A final decision on the appeal by this committee will be due two weeks after the EPC chair receives the written appeal and the department or program report.
4. In ruling on grade appeals, the College committee will not attempt to resolve disputes about a student's knowledge of a particular subject matter. The committee's responsibilities do extend, however, to matters



of both substance and process. Regarding substance, the committee will determine whether evaluation of a student has been prejudiced or capricious. Regarding process, the committee will determine whether or not grade appeal procedures have been followed.

5. In response to an appeal of department or program process, the committee will determine whether grade appeal procedures have been completed in a reasonable manner. If procedures are not complete, the committee may require the department or program appeal committee to reconvene.

6. In response to an appeal based on charges of caprice or prejudice in grading, the committee may determine that it concurs with the judgment of the department or program appeal committee and will adopt the original recommendation on the matter as its own.

OR

The committee may determine that an academic evaluation by an instructor has been improper, or that the instructor's evaluation was wrongly held to be improper as the result of the original grade appeal, and it will advise the dean that the student's grade should be changed accordingly.

## Grade Appeal Policy

1. The College of Arts & Sciences will set grade appeal policies and procedures that operate within the University of Nebraska Board of Regents Bylaws and Policies

### **Bylaws of the University of Nebraska Board of Regents Chapter V–(January 25, 2018) 5.3 Academic Evaluation.**

"Each College or school shall provide for a faculty-student appeals committee for students who believe that evaluation of their academic progress has been prejudiced or capricious. Such procedure shall provide for changing a student's evaluation upon the committee's finding that an academic evaluation by a member of a faculty has been improper."

### **University of Nebraska Board of Regents Policies Chapter 5.– (October 3, 2018) Instructional and Grading Procedures 2b.**

"....The faculty of each department, school, or equivalent unit shall provide a committee to consider the appeal of those cases in which a student feels the performance evaluation was unfair. Colleges shall provide standing committees to consider cases in which the student or faculty member chooses to appeal the initial decision. Any of these committees shall have the authority to direct changes in the grade based upon its findings."

2. The College of Arts & Sciences will maintain department and program grade appeal policies and procedures that operate within the University of Nebraska at Omaha Graduate Office grade appeal policies and procedures so that, at the department/program level, there is one procedure for both undergraduate and graduate appeals.
3. The College of Arts & Sciences will operate within the parameters set by the Board of Regents and the Graduate Office but will set additional requirements and deadlines.
4. The College of Arts & Sciences will set deadlines and procedures for grade appeals that will allow resolution of both the department/program appeal and the undergraduate college appeal within the first ten weeks of regular semesters, allowing students filing appeals to make informed decisions for early registration and to move forward with their academic careers.

5. Departments and programs within the College of Arts & Sciences will maintain grade appeal policies and procedures that operate within the *College of Arts & Sciences Grade Appeal Policies and Procedures for Departments and Programs*.

## Academic Amnesty

Academic Amnesty provides relief from a poor academic record acquired within the University of Nebraska system by excluding substandard coursework with a final grade of "D" or "F" from a student's cumulative grade point average (GPA) calculation. Academic Amnesty will not remove course(s) or grade(s) from the transcript but once granted, will not count as part of the overall GPA.

### **To be eligible for Academic Amnesty, students must:**

- Have been out of the Nebraska system for at least one calendar year (12-month period).
- Have substandard coursework ("F" or "D" grades) earned within the University of Nebraska system (UNO, UNL, UNK, UNMC) prior to the year out (substandard grades earned after the year out will not be included in the Academic Amnesty contract).
- Be admitted as a degree-seeking student at the University of Nebraska.

### **Amnesty Requirements:**

- Academic Amnesty will begin with the first course(s) taken upon return to UNO.
- Students may apply for Academic Amnesty at any time after taking the one-year break.
- After returning from the one-year break, demonstrate academic success in new UNO coursework.
- Academic success may be demonstrated by one of the following:
  - Completing at least 12 semester hours (simultaneous or sequential) with a minimum of 3.0 cumulative GPA,
  - Completing at least 24 semester hours (simultaneous or sequential) with a minimum of 2.5 cumulative GPA.
- Students must maintain continuous enrollment (at least six (6) semester hours completed within any 12-month period).
- Students will work with their academic advisor to select the coursework to be amnestied.
- Students must inform an academic advisor when the Academic Amnesty requirements are met.

### **Notes:**

- All amnestied coursework will remain on the student's academic record (transcript); however, the courses will not be included in calculation of the student's grade point average. Courses will be annotated "Academic Amnesty Excluded from GPA" on the transcript.
- Once Academic Amnesty is granted, students will not be eligible for honors at graduation. Students are still eligible for Dean's List and Chancellor's List honors.
- While demonstrating academic success, no changes are made to the student's academic record. If a student's cumulative GPA is still below standard, the students will continue to be reported as "continued on probation." Should the student revert to substandard academic performance while working on Academic Amnesty, the student can still be suspended. Academic Amnesty is intended to provide relief from the past without providing immunity from future substandard academic performance.
- Students must still meet all university and college requirements to graduate.



This policy will be in effect in the College of Arts and Sciences beginning with the 2022-2023 academic year.

## Academic Probation and Suspension

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Reinstatement Policy Following Academic Suspension

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Academic Advising

Advising in the College of Arts and Sciences is structured through a combination of professional and faculty advisors in advising centers and departments.

Current students will find academic advisor contact information on their MavLINK (<https://www.unomaha.edu/my/mavlink.php>) homepage within the "Contact My Advisor" section.

Incoming first-year students for the fall semesters generally enroll with professional advisors on an in-person Enrollment Day during the summer months. The First-Year Student Orientation (<https://www.unomaha.edu/student-life/achievement/new-student-and-family-programs/orientation/first-year-student-sign-up.php>) webpage is an excellent resource for further instructions.

Transfer students for all degree-granting majors in the College of Arts and Sciences are assisted by the A&S Advising Center (<https://www.unomaha.edu/college-of-arts-and-sciences/academic-advising-center/make-an-appointment/mavtrack.php>) for advising and enrollment coordination.

All students interested in pursuing a career in healthcare have access to professional advisors in the Health Careers Resource Center for career and enrollment advising. Pre-dental hygiene, pre-medical imaging, and pre-nursing students should contact the HCRC as their primary advising resource. Pre-health students earning a bachelor's degree (some examples include pre-dental, pre-medicine, pre-physician assistant, and pre-occupational therapy) can visit the HCRC (<https://www.unomaha.edu/college-of-arts-and-sciences/health-careers-resource-center/>) for pre-health-specific guidance at any time throughout their academic career at UNO.

## Advising Holds

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/> (p. 30)

## Student Holds

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/> (p. 30)

## Senior/Graduation Check

After completing 91 credit hours of coursework, students must request a Senior Check/Graduation Check from the Arts & Sciences Advising Center. Provided that the student follows the guidance on the form and assuming satisfactory completion of all approved courses, this process will ensure the student's graduation date. Should this procedure not be followed, responsibility for meeting graduation requirements falls on the student; if errors are made, they can prevent graduation at the anticipated date. Multiple options exist for Senior Checks to be conducted, and are outlined on the Arts and Sciences Advising Center website (<https://www.unomaha.edu/college-of-arts-and-sciences/academic-advising-center/>).

# Arts and Sciences Minors

## Arts and Science Minors

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- Molecular and Biomedical Biology, Minor (p. 253)
- Native American Studies Minor (p. 253)
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- Physics Minor (p. 285)
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- Religion Minor (p. 348)
- Sociology Minor (p. 362)
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- Sustainability Minor (p. 78)
- Women's and Gender Studies Minor (p. 366)

## Ancient Mediterranean Studies Minor

### Description

The interdisciplinary Ancient Mediterranean Studies (AMS) minor was designed to give students an in-depth understanding of the history of the Mediterranean and Ancient Near East from the beginning of the Bronze Age through the Roman Empire in the West, and the Byzantine Empire in the East.

## Other Information

All coursework taken for the Ancient Mediterranean Studies minor must be completed with a grade of C- or better.

## Contact

Jeanne Reames, PhD, Ancient Mediterranean Studies Director  
mreames@unomaha.edu

Website (<http://www.unomaha.edu/ams/>)

## Ancient Mediterranean Studies Minor Requirements

Undergraduate students will be expected to complete 15 credit hours of AMS courses with a grade of C- or higher from at least three departments, including art history, black studies, English, history, philosophy, political science, or religious studies. Twelve hours of these must be courses at the 3000-4000 level. A course in another department other than those listed may be permissible with review and approval by AMS faculty. See below for a list of approved courses.

While a language is not required for the minor, taking one is strongly recommended, especially for graduate students and any undergraduates who have plans to continue their studies in graduate school. See the director for suggestions of relevant languages.

| Code                                   | Title   | Credits   |
|--|---|-----------|
| ^Course requires pre-requisite(s)      |   |           |
| <b>Select Five from the following:</b> |   | <b>15</b> |
| <b>Art History</b>                     |   |           |
| ART 3700                               | INTRODUCTION TO ANCIENT ART (^)   |           |
| ART 4730                               | CLASSICAL ART HISTORY (^)   |           |
| ART 4750                               | LATE ROMAN AND BYZANTINE ART HISTORY (^)  |           |
| ART 4930                               | SPECIAL TOPICS IN ART HISTORY (^) <sup>1</sup>  |           |
| <b>Black Studies</b>                   |   |           |
| BLST 2540                              | INTRODUCTION TO EGYPTIAN HIEROGLYPHS  |           |
| <b>English</b>                         |   |           |
| ENGL 2500                              | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^)                                      |           |
| ENGL 3000<br>or WGST 3000              | SPECIAL TOPICS IN ENGLISH <sup>2</sup><br>SPECIAL TOPICS: GENDER AND SEXUALITY IN ENGLISH STUDIES |           |
| ENGL 4960                              | TOPICS IN LANGUAGE AND LITERATURE (^) <sup>3</sup>  |           |
| <b>History</b>                         |   |           |
| HIST 2510                              | ANCIENT GREECE: BRONZE AGE TO CLASSICAL ERAS (**)   |           |
| HIST 2520                              | ANCIENT HISTORY - ROME (** ^)   |           |
| HIST 2990                              | PEOPLE AND ISSUES IN HISTORY (^) <sup>4</sup>   |           |
| HIST 4820                              | MESOPOTAMIA AND PRE-ISLAMIC PERSIA (^)  |           |
| HIST 4830                              | ANCIENT GREEK MYTH, RELIGION & MAGIC  |           |
| HIST 4840                              | ALEXANDER THE GREAT AND THE MACEDONIAN ORIGIN (^)   |           |
| HIST 4850                              | ROME AND THE EARLY CHURCH (^)   |           |
| HIST 4910                              | TOPICS IN HISTORY (^) <sup>5</sup>  |           |
| <b>Latin</b>                           |   |           |
| LATN 2120                              | INTERMEDIATE LATIN II (^)   |           |

### Philosophy

|                          |  |
|--------------------------|--|
| PHIL 3110                | HISTORY OF ANCIENT PHILOSOPHY                        |
| PHIL 3500                | PROBLEMS IN PHILOSOPHY (^) <sup>3</sup>              |
| <b>Political Science</b> |  |
| PSCI 4310                | CLASSICAL POLITICAL THOUGHT (^)                      |
| <b>Religious Studies</b> |  |
| RELI 2150                | HEBREW SCRIPTURES (**)                               |
| RELI 2160                | NEW TESTAMENT: HISTORY, LITERATURE, AND SOCIETY (**) |
| RELI 3130/<br>WGST 3120  | WOMEN AND THE BIBLE                                  |
| RELI 4170                | HISTORY OF CHRISTIANITY I                            |
| RELI 3500                | TOPICS IN RELIGIOUS STUDIES <sup>6</sup>             |
| RELI 4830                | ANCIENT GREEK MYTH, RELIGION & MAGIC                 |
| RELI 4850                | ROME AND THE EARLY CHURCH (^)                        |

<sup>1</sup> Special Topics in Art History: The Hellenistic World, Pop Antiquity, Egyptian Art and Culture, Gender and Sexuality in Antiquity

<sup>2</sup> Ancient Greek and Roman Drama or other approved topic.

<sup>3</sup> Pre-approved special topics only

<sup>4</sup> When offered as Ancient Egypt

<sup>5</sup> Topics in History: Byzantium, others by permission

<sup>6</sup> Special Topics in Religion: Jerusalem, Egyptian and Babylonian Religion, Ancient Israel, Biblical Archaeology, Biblical Cities, Jesus and Archaeology, Quran and the Dead Sea Scrolls, Greco-Roman Religions, Bethsaida Excavations

## Film Studies Minor

## Film Studies Minor Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| ^Course requires pre-requisite(s)              |  |           |
| <b>Select one course from the following:</b>   |  | <b>3</b>  |
| ENGL 1020                                      | INTRODUCTION TO GENRE STUDIES: POETRY, DRAMA, FILM                           |           |
| SOC 2400                                       | SOCIOLOGY ON FILM (^)  |           |
| THEA 1050                                      | FILM HISTORY AND APPRECIATION  |           |
| THEA 1070                                      | SUPER HERO CINEMA  |           |
| THEA 2050                                      | THE FILMS OF ALFRED HITCHCOCK  |           |
| WRWS 2400                                      | FOUNDATIONS OF SCREENWRITING (^)   |           |
| <b>Select four courses from the following:</b> |  | <b>12</b> |
| BLST/CMST 3510                                 | CULTURAL COMMUNICATION IN AFRICAN-AMERICAN CINEMA (^)                        |           |
| ENGL 4950                                      | BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM (^) |           |
| ENGL 4960                                      | TOPICS IN LANGUAGE AND LITERATURE (approved per focus ^)                     |           |
| FREN 4950                                      | PRO-SEMINAR: LITERATURE AND/OR FILM (approved per focus ^)                   |           |
| GEOG 3050                                      | GEOGRAPHY IN FILM (^)  |           |
| GERM 3650                                      | INTRODUCTION TO GERMAN FILM (^)  |           |
| GERM 4950                                      | PRO-SEMINAR: LITERATURE AND/OR FILM (approved per focus ^)                   |           |
| PSCI 4820                                      | POLITICS AND FILM  |           |
| RELI 3400                                      | RELIGION AND FILM (^)  |           |
| RELI 4450                                      | HOLY TERROR: RELIGION AND HORROR   |           |
| RELI 4550                                      | JESUS IN FILM  |           |

|                      |  |
|----------------------|--|
| RELI 4700            | RELIGION, FILM, AND VIOLENCE                               |
| SPAN 4140            | INTRODUCTION TO LATIN AMERICAN FILM (^)                    |
| or LLS 4140          | INTRODUCTION TO LATIN AMERICAN FILM                        |
| SPAN 4950            | PRO-SEMINAR: LITERATURE AND/OR FILM (approved per focus ^) |
| THEA 4050            | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION             |
| WRWS 4000            | FORM AND THEORY (approved per focus ^)                     |
| <b>Total Credits</b> |  |
| <b>15</b>            |  |

Note: Courses in FREN, GERM, and SPAN may be taught in the original languages (French, German, and Spanish). Students will need to meet the prerequisites for these or any of the other upper-division courses.

## Sustainability Minor

Sustainability is an interdisciplinary field that explores the interconnectedness of every system on the planet from multiple perspectives, and the ways we can maintain and improve earth's resources for current and future generations. The natural sciences provide the basis for understanding Earth's systems and how humans impact them. The humanities value our physical and ethical connection to these systems.

Finally, the social sciences allow us to understand political, economic, and cultural sustainability, as well as formulate workable policies for a sustainable future.

Sustainability integrates a broad range of topics, including:

- green business practices
- ecology
- natural resources management
- city planning (including land development, housing, transportation, and urban infrastructure)
- international law, policy, and politics
- ethics, values, and environmental justice
- energy and international development
- food security
- human health and quality of life.

A minor in sustainability can be combined with any major in any college at UNO, offering students a flexible and interdisciplinary curriculum. Students who complete this minor will be able to:

- Understand sustainability, its various sub-disciplines, major themes, and analytical techniques as it relates to virtually any career field
- Recognize the political, economic, and cultural forces acting upon the global ecosystem
- Appreciate the significant value of the global ecosystem services provided by a healthy environment
- Identify ways to advance equity, improve quality of life, and lower our personal and collective environmental footprint, on campus and in the community.

## Other Information

All coursework taken for the sustainability minor must be completed with a grade of "C-" or better.

## Contacts

Dr. Dana Richter-Egger, Co-Director

drichter-egger@unomaha.edu

Ms. Farrah Grant, Co-Director

fgrant@unomaha.edu

Website (<https://www.unomaha.edu/college-of-arts-and-sciences/sustainability/>)

## Sustainability Minor Requirements

Undergraduate students will be expected to complete at least 15 credit hours of Sustainability courses, including an introductory course in Sustainability, one course in environmental science, and advanced sustainability coursework. Nine credit hours must be upper division (3000 or higher) courses. No more than six credit hours will be accepted as transfer credit.

| Code  | Title   | Credits    |
|---|---|------------|
| ^Course requires pre-requisite(s)   |   |            |
| <b>Required Course</b>  |   | <b>3</b>   |
| SUST 1000   | INTRODUCTION TO SUSTAINABILITY  |            |
| <b>Select one of the following approved courses in environmental science:</b>                                 |   | <b>3-4</b> |
| BIOL 1330   | ENVIRONMENTAL BIOLOGY   |            |
| CHEM 1010   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY  |            |
| GEOG 1030   | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY                                      |            |
| GEOG 1050   | HUMAN-ENVIRONMENT GEOGRAPHY   |            |
| GEOL 1010   | ENVIRONMENTAL GEOLOGY   |            |
| GEOL 1100   | EARTH SYSTEM SCIENCE  |            |
| <b>Plus a minimum of 9 credit hours selected from the following. Courses can only be applied to one area.</b> |   |            |
| <b>Select one of the following in the economic and public policy aspects of sustainability:</b>               |   | <b>3</b>   |
| ECON 4320   | NATURAL RESOURCE ECONOMICS  |            |
| ECON 4330   | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY   |            |
| ENVN 4820   | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS   |            |
| GEOG 4160   | URBAN SUSTAINABILITY  |            |
| PSCI/ENVN 4270  | GLOBAL ENVIRONMENTAL POLITICS   |            |
| PSCI 4290   | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY  |            |
| SPAN 3310   | SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD                            |            |
| <b>Select one of the following in social and ethics dimensions of sustainability:</b>                         |   | <b>3</b>   |
| ENGL 3000   | SPECIAL TOPICS IN ENGLISH (When topic is Science, Technology, and the Literary Imagination) |            |
| ENGL 4960   | TOPICS IN LANGUAGE AND LITERATURE (When topic is Ecological Literature & Sustainability)    |            |
| GEOG 4160   | URBAN SUSTAINABILITY  |            |
| HIST 4390   | THE NATURE OF THE PAST: AMERICAN ENVIRONMENTAL HISTORY, PRE-HISTORY TO THE PRESENT          |            |
| PHIL 3180   | ENVIRONMENTAL ETHICS  |            |
| PSCI/ENVN 4270  | GLOBAL ENVIRONMENTAL POLITICS   |            |
| PSCI 4290   | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY  |            |

|   |  |
|---|--|
| SOC 4760  | ENVIRONMENTAL SOCIOLOGY  |
| SPAN 3310   | SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD |
| <b>Select one of the following in sustainability and natural resource management:</b> |  |
| BIOL 4120   | CONSERVATION BIOLOGY   |
| ENVN 4310   | OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY   |
| ENVN 4320   | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH                       |
| GEOG 3020   | HEALTH & MEDICAL GEOGRAPHY                                       |
| GEOG 3440   | NEBRASKA NATURAL RESOURCES MANAGEMENT                            |
| GEOG 4010   | CONSERVATION OF NATURAL RESOURCES                                |
| GEOG 4230   | GREAT PLAINS & NEBRASKA  |
| GEOG 4320   | CLIMATOLOGY  |
| GEOG 4340   | WATER RESOURCES  |
| GEOG 4350   | GLOBAL CLIMATE CHANGE  |

3-4

| Code   | Title                            | Credits |
|--|----------------------------------|---------|
| <b>Students may also pursue the following options, as approved by the director of the minor:</b> |                                  |         |
| SUST 4090  | SPECIAL TOPICS IN SUSTAINABILITY |         |
| SUST 4800  | SUSTAINABILITY INTERNSHIP        |         |
| SUST 4900  | INDEPENDENT STUDY                |         |

Other courses can be substituted with the approval of the minor director.

Students minoring in Sustainability may count one lower-level course and one upper-level course for both the major and minor.

## Biology

The biology degree allows students to explore biological topics that span the breadth of biology. Diverse course offerings enable students to obtain broad expertise or to specialize within the discipline. The biology major prepares students for a wide range of career choices.

## Other Information

All coursework taken for the Biology major or minor must be completed with a grade of "C-" or better, and a grade of "C-" or better is required in prerequisites of Biology courses.

## Double Majors

For a double major in **Biology and Molecular and Biomedical Biology**, beyond BIOL 1450, BIOL 1750, BIOL 2140 and BIOL 3020, no other biology courses may count for both majors.

For a double major in **Biology and Bioinformatics**, beyond BIOL 1450, BIOL 1750, BIOL 2140, and BIOL 3020, no other biology courses may count for both majors.

For a double major in **Biology and Environmental Sciences with a Concentration in Life Science**, beyond BIOL 1450, BIOL 1750, BIOL 2140, and BIOL 3340, no other biology courses may count for both majors.

For a double major in **Biology and Psychology or Biology and Neuroscience**, beyond the required fundamentals courses, students cannot use a 3000/4000 level course to count toward both majors.

For a double major in **Biology and Chemistry**, 3000/4000 level courses may count toward both majors. In cases where students are earning **two distinct degrees** (a BA and BS) with one degree in Biology and the other in Chemistry, 3000/4000 level courses will **not** count toward both programs.

## Majors and Minors

For a major in **Biology and a minor in Psychology**, with the exception of PSYC 3130, students cannot use a 3000/4000 level course to count toward both programs.

For a major in **Neuroscience and a minor in Biology**, students cannot use a 3000/4000 level elective course to count toward both programs.

For a major in **Bioinformatics and a minor in Biology**, students cannot use a 3000/4000 level elective course to count towards both programs.

For a major in **Biology and a minor in Bioinformatics**, students cannot use a 3000/4000 level elective course to count towards both programs.

For a major in **Environmental Science with a Concentration in Life Science and a minor in Biology**, students cannot use a 3000/4000 level elective course to count toward both programs.

For a major in **Biology and a minor in Environmental Science**, students cannot use a 3000/4000 level elective course to count toward both programs.

For a major in **Biology and a minor in Chemistry**, 3000/4000 level courses may count toward both programs.

Students may not earn a **Molecular and Biomedical Biology major and a Biology minor, or a Biology major and a Molecular and Biomedical Biology minor**.

## Residency Requirement for Biology Majors

To fulfill degree requirements, 3000/4000 level laboratory courses must be taken at UNO.

## Contact

114 Allwine Hall  
402.554.2641

**Website (<http://www.unomaha.edu/college-of-arts-and-sciences/biology/>)**

## Degrees Offered

Students may choose to pursue a Bachelor of Arts in Biology or a Bachelor of Science in Biology. Each degree option requires at least 36 credits of biology courses of which 18 credits must be 3000-4000 level courses.

- Biology, Bachelor of Arts (p. 80)
- Biology, Bachelor of Science (p. 82)
- Biology, Bachelor of Science with a Concentration in Education (p. 86)

## Minors Offered

- Biology Minor (p. 89)

Biology is the science of life, both present and past, encompassing many areas of specialization. The curriculum provides a foundation across the discipline with opportunities for in-depth training in such specializations as molecular and cell biology, animal and plant biology, genetics, and ecology. The curriculum emphasizes hands-on laboratory and research experiences.

- Laboratory research technician
- Genetic counselor
- Health communications
- Wildlife biologist
- Research scientist
- Technical writer
- Environmental consultant
- Health professions
- Educator

Biology, Bachelor of Arts

To obtain a BA with a major in Biology, a student must fulfill university, college, and departmental requirements.

Biology, Bachelor of Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>Major Requirements - 61-71 Hours Required</b>  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Required Biology Coursework:</b>   |   | <b>18</b> |
| BIOL 1450   | BIOLOGY I (**)  |           |
| BIOL 1750   | BIOLOGY II (^)  |           |
| BIOL 2140   | GENETICS (^)  |           |

|   |  |
|---|--|
| BIOL 3340   | ECOLOGY (^)  |
| <b>Additional Biology Coursework - 18 Hours Required</b>  |  |
| The remaining 18 credits in biology should be chosen in consultation with a biology advisor and must include at least 14 credits from BIOL 3000-4000 level courses, including at least one lab course (in addition to BIOL 3340). Up to three credits of BIOL 4030, up to three credits of either BIOL 4050 or BIOL 4800 and one credit of BIOL 4040 can be included. BIOL 3150 may not be used to satisfy the requirement for 3000-4000 level biology credits. Courses at the 1000-2000 level are restricted to BIOL 2440, BIOL 2740, and BIOL 2840. |  |
| <b>Required Chemistry Coursework</b>  |  |
| <b>Select one of the following sequences in Chemistry</b>   |  |
| Sequence 1  |  |
| CHEM 1140 & CHEM 1144   | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (**^) |
| CHEM 2210 & CHEM 2214   | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)   |
| CHEM 3650 & CHEM 3654   | FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)             |
| Sequence 2  |  |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)                            |
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)                             |
| CHEM 2250   | ORGANIC CHEMISTRY I (^)  |
| CHEM 2260   | ORGANIC CHEMISTRY II (^)   |
| CHEM 2274   | ORGANIC CHEMISTRY LABORATORY (^)   |
| Sequence 3  |  |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)                            |
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)                             |
| CHEM 2210 & CHEM 2214   | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)   |
| CHEM 3650 & CHEM 3654   | FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)             |
| <b>Required Physics Coursework</b>  |  |
| <b>Select one of the following Sequences in Physics:</b>  |  |
| Sequence 1  |  |
| PHYS 1050 & PHYS 1054   | INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY (** ^)                    |
| Sequence 2  |  |
| PHYS 1110 & PHYS 1154   | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^)                       |
| PHYS 1120 & PHYS 1164   | PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II (^)                        |



|   |  |
|---|--|
| Sequence 3  |  |
| PHYS 2110<br>& PHYS 1154  | GENERAL PHYSICS I - CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY I<br>(** ^) |
| PHYS 2120<br>& PHYS 1164  | GENERAL PHYSICS II-CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY II<br>(^)    |
| <b>Select one of the following courses in Mathematics or Computer Science</b>     |  |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT (**)  |
| MATH 1320   | COLLEGE ALGEBRA (^)  |
| MATH 1330   | TRIGONOMETRY (^)   |
| MATH 1340   | ALGEBRA AND TRIGONOMETRY FOR<br>CALCULUS (^)                                     |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE,<br>AND SOCIAL SCIENCES (^)                    |
| MATH 1940   | CALCULUS FOR BIOMEDICINE (^)   |
| MATH 1950   | CALCULUS I (^)   |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES (** ^)   |
| CSCI 1620   | INTRODUCTION TO COMPUTER<br>SCIENCE II (^)                                       |
| CIST 1400   | INTRODUCTION TO COMPUTER<br>SCIENCE I (^)  |
| <b>Select one of the following courses in Statistics</b>                          |  |
| BIOL 2020   | STATISTICS FOR LIFE AND<br>ENVIRONMENTAL SCIENCE (^)                             |
| PSYC 3130   | STATISTICS FOR THE BEHAVIORAL<br>SCIENCES (^)                                    |
| SOC 2130  | SOCIAL STATISTICS (^)  |
| STAT 3000   | STATISTICAL METHODS I (^)  |
| <b>College Breadth (choose one option)</b>  |  |
| <b>Option 1: Complete any UNO minor or undergraduate certificate - 15+ Hours</b>  |  |
| <b>Option 2: Additional General Education Requirements - 18+ Hours</b>            |  |
| Additional quantitative literacy - 3 hours  |  |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |  |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |  |
| HIST 1000 and HIST 1010 - 6 hours   |  |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |  |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |  |
| <b>Bachelor Arts Language Requirements</b>  |  |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |  |
| <b>Electives</b>  |  |
| Elective hours as required to reach a total of 120 hours                          |  |

## Biology, Bachelor of Arts Four Year Plan

| Freshman                  |  | Credits |
|---------------------------|--|---------|
| Fall                      |  |         |
| ENGL 1150                 | ENGLISH COMPOSITION I                                | 3       |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3       |

|   |  |     |
|---|--|-----|
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICS<br>AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR<br>HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH<br>SUPPORT | 3-4 |
| BIOL 1450   | BIOLOGY I (***)  | 5   |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

| <b>Credits</b>                       |  | <b>14-15</b> |
|--------------------------------------|--|--------------|
| <b>Spring</b>                        |  |              |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                                | 3            |
| PHYS 1050<br>& PHYS 1054             | INTRODUCTION TO PHYSICS<br>and INTRODUCTION TO PHYSICS<br>LABORATORY (*) | 5            |
| BIOL 1750                            | BIOLOGY II   | 5            |
| General Education Course or Elective |  | 3            |

\*There are other options for this major requirement – make sure you talk with an advisor before planning to take this class. Alternatively, students may take PHYS 1110 & PHYS 1154 followed by PHYS 1120 & PHYS 1164. This class also satisfies the 2nd Natural and Physical Science General Education requirement.

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

| Credits                              |   | 16 |
|--------------------------------------|---|----|
| <b>Sophomore</b>                     |   |    |
| <b>Fall</b>                          |   |    |
| CHEM 1140<br>& CHEM 1144             | FUNDAMENTALS OF COLLEGE<br>CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE<br>CHEMISTRY LABORATORY (*) | 5  |
| World Language 1110                  |   | 5  |
| General Education Course or Elective |   | 3  |
| General Education Course or Elective |   | 3  |

\*CHEM 1140: Concurrent enrollment in CHEM 1144 required. There are other chemistry sequence options to complete this requirement—consult with an advisor before planning to take this class.

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

|                            | Credits   | 16 |
|----------------------------|---|----|
| <b>Spring</b>              |   |    |
| CHEM 2210<br>& CHEM 2214   | FUNDAMENTALS OF ORGANIC<br>CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC<br>CHEMISTRY LABORATORY (*) | 5  |
| BIOL 2140                  | GENETICS  | 4  |
| World Language course 1120 |   | 5  |



\*CHEM 2210: CHEM 2214 to be taken concurrently. Please refer to your advisor or the catalog for other Chemistry options.

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

| Credits                    |  | 14 |
|----------------------------|--|----|
| <b>Junior</b>              |  |    |
| <b>Fall</b>                |  |    |
| CHEM 3650 & CHEM 3654      | FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (*) | 4  |
| BIOL 3340                  | ECOLOGY  | 4  |
| World Language Course 2110 |  | 3  |
| Elective                   |  | 3  |

\*CHEM 3650: CHEM 3654 to be taken concurrently. Please refer to your advisor and the catalog for other Chemistry options.

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

| Credits                                  |  | 14  |
|--|--|-----|
| <b>Spring</b>                            |  |     |
| Lower or Upper-Level BIOL Course         |  | 3-4 |
| Upper-Level BIOL Course no Lab*          |  | 3   |
| Approved Statistics Course (see catalog) |  | 3   |
| World Language 2120                      |  | 3   |
| General Education Course or Elective     |  | 3   |

\*BIOL Courses- Lower-level options can include only one from: BIOL 2440, BIOL 2740, or BIOL 2840. Upper-level options cannot include BIOL 3150. For upper-level BIOL elective options and restrictions, please refer to the Catalog or curriculum guide from the Biology advisors.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| Credits                              |  | 15-16 |
|--------------------------------------|--|-------|
| <b>Senior</b>                        |  |       |
| <b>Fall</b>                          |  |       |
| Upper-Level BIOL Course with Lab*    |  | 4     |
| Upper-Level BIOL Course no Lab*      |  | 3     |
| General Education Course or Elective |  | 3     |
| Elective                             |  | 3     |
| Elective                             |  | 3     |

\*Upper-Level BIOL Courses cannot include BIOL 3150. See Catalog or curriculum guide from Biology advisors for upper-level biology course list and restrictions.

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

| Credits |  | 16 |
|---------|--|----|
|---------|--|----|

### Spring

|                                  |   |
|----------------------------------|---|
| Upper-Level BIOL Course no Lab * | 3 |
| Upper-Level BIOL Course no Lab * | 3 |
| Elective                         | 3 |
| Elective                         | 3 |
| Elective                         | 3 |

\*Upper-Level BIOL Courses cannot include BIOL 3150. See Catalog or curriculum guide from Biology advisors for upper-level biology course list and restrictions.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| Credits              |  | 15             |
|----------------------|--|----------------|
| <b>Total Credits</b> |  | <b>120-122</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Biology, Bachelor of Science

To obtain a BS with a major in Biology, a student must fulfill university, college, and departmental requirements.

## Biology, Bachelor of Science Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of "C-"required                                   |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |

|  |   |
|--|---|
| <b>Writing – 6 hrs.</b>  |   |
| ENGL 1150  | ENGLISH COMPOSITION I                                   |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY               |
| <b>Oral Communication – 3 hrs.</b>   |   |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                   |
| or CMST 2120   | ARGUMENTATION AND DEBATE                                |
| <b>Quantitative Literacy – 3 hrs.</b>  |   |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130   | QUANTITATIVE LITERACY                                   |
| or MATH 1140   | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                            |
| <b>Data Literacy – 3 hrs.</b>  |   |
| Select one from the following:   |   |
| STAT 1100  | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530  | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.  |   |
| <b>Breadth of Knowledge</b>  | <b>13</b>   |
| Social Science – 3 hrs.  |   |
| Humanities – 3 hrs.  |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |
| Arts – 3 hrs.  |   |
| <b>Individual and Social Responsibility</b>  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |
| Civic Knowledge and Engagement – 3 hrs.  |   |
| <b>Major Requirements - 61-68 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement  |   |
| ^Course requires pre-requisite(s)  |   |
| <b>Required Biology Coursework</b>   | <b>21</b>   |
| BIOL 1450  | BIOLOGY I (** ^)  |
| BIOL 1750  | BIOLOGY II (^)  |
| BIOL 2140  | GENETICS (^)  |
| BIOL 3020  | MOLECULAR BIOLOGY OF THE CELL (^)                       |
| BIOL 3340  | ECOLOGY (^)   |
| <b>Additional Biology Coursework</b>   | <b>12+</b>  |
| Select one course from Group I and at least three courses from Group II (see below) to obtain at least 12 credits of advanced study beyond the Biology Core. Two advanced courses must have approved laboratories. |   |
| <b>Group I: Structure and Function of Multicellular Systems</b>  |   |
| BIOL 3240  | INTRODUCTION TO IMMUNOLOGY (^)                          |
| BIOL 4260  | BEHAVIORAL ECOLOGY (^)                                  |
| BIOL/PSYC 4270   | ANIMAL BEHAVIOR (^)                                     |
| BIOL/NEUR 4290   | NEUROETHOLOGY (^)                                       |
| BIOL/PSYC 4320   | HORMONES & BEHAVIOR (^)                                 |
| BIOL 4440  | PLANT PHYSIOLOGY (^)                                    |
| BIOL 4710  | TOXICOLOGY (^)  |
| BIOL 4730  | VERTEBRATE ENDOCRINOLOGY (^)                            |
| BIOL 4740  | ANIMAL PHYSIOLOGY (^)                                   |
| BIOL 4830  | DEVELOPMENTAL GENETICS (^)                              |
| BIOL 4850  | DEVELOPMENTAL BIOLOGY (^)                               |
| BIOL/NEUR 4890   | GENES, BRAIN, AND BEHAVIOR (^)                          |
| BIOL 4970  | ADVANCED BOTANY (^)                                     |
| <b>Group II: Cellular and Molecular Biology</b>  |   |

|  |   |
|--|---|
| BIOL 3830  | BIOLOGY OF PATHOGENIC MICROORGANISMS                      |
| BIOL 4130  | MOLECULAR GENETICS (^)                                    |
| BIOL 4140  | CELLULAR BIOLOGY (^)                                      |
| BIOL 4150  | CANCER BIOLOGY (^)  |
| BIOL 4450 & BIOL 4454  | VIROLOGY and VIROLOGY LABORATORY (^)                      |
| BIOL 4640 & BIOL 4644  | MOLECULAR MICROBIOLOGY and MOLECULAR MICROBIOLOGY LAB (^) |
| BIOL/CHEM 4650   | BIOCHEMISTRY I (^ with following lab)                     |
| BIOL/CHEM 4654   | BIOCHEMISTRY I LABORATORY (^)                             |
| BIOL/CHEM 4660   | BIOCHEMISTRY II (^ with the following lab)                |
| BIOL/CHEM 4664   | BIOCHEMISTRY II LABORATORY (^)                            |
| BIOL/NEUR 4810   | BEHAVIORAL GENETICS (^)                                   |
| BIOL 4760  | GENOME TECHNOLOGY AND ANALYSIS (^)                        |
| BIOL 4860  | COMPARATIVE GENOMICS (^)                                  |
| BIOL/NEUR 4870   | MOLECULAR AND CELLULAR NEUROBIOLOGY (^)                   |
| BIOL 4960  | ADVANCED GENETICS (^)                                     |
| <b>Group II: Structure and Function of Multicellular Systems</b> |   |
| BIOL 3240  | INTRODUCTION TO IMMUNOLOGY (^)                            |
| BIOL/GERO/NEUR 3500  | BIOLOGICAL PRINCIPLES OF AGING (^)                        |
| BIOL 4260  | BEHAVIORAL ECOLOGY (^)                                    |
| BIOL/PSYC 4270   | ANIMAL BEHAVIOR (^ optional following lab)                |
| BIOL/PSYC 4280   | ANIMAL BEHAVIOR LABORATORY (^)                            |
| BIOL/NEUR 4290   | NEUROETHOLOGY (^)   |
| BIOL/PSYC 4320   | HORMONES & BEHAVIOR (^)                                   |
| BIOL 4440  | PLANT PHYSIOLOGY (^)                                      |
| BIOL 4460  | COMPARATIVE IMMUNOLOGY (^)                                |
| BIOL 4710  | TOXICOLOGY (^)  |
| BIOL 4730  | VERTEBRATE ENDOCRINOLOGY (^)                              |
| BIOL 4740  | ANIMAL PHYSIOLOGY (^)                                     |
| BIOL 4830  | DEVELOPMENTAL GENETICS (^)                                |
| BIOL 4850  | DEVELOPMENTAL BIOLOGY (^)                                 |
| BIOL/NEUR 4890   | GENES, BRAIN, AND BEHAVIOR (^)                            |
| BIOL 4970  | ADVANCED BOTANY (^)                                       |
| <b>Group II: Biodiversity</b>                                    |   |
| BIOL/ENVN 3030   | MICROBIAL ECOLOGY (^)                                     |
| BIOL/GEOL 3100   | PALEONTOLOGY (^)  |
| BIOL 3530  | FLORA OF THE GREAT PLAINS (^)                             |
| BIOL 3730  | FAUNA OF THE GREAT PLAINS (^)                             |
| BIOL 4490  | MEDICINAL USES OF PLANTS (^)                              |
| BIOL 4780  | VERTEBRATE ZOOLOGY (^)                                    |
| BIOL 4790  | MAMMALOLOGY (^)   |
| BIOL 4840  | HERPETOLOGY (^)   |
| BIOL 4940  | ENTOMOLOGY (^)  |
| BIOL 4980  | ORNITHOLOGY (^)   |
| <b>Group II: Ecology Evolution and Conservation Biology</b>      |   |
| BIOL 3680 & BIOL 3690  | BIOLOGY OF AFRICA and BIOLOGY OF AFRICA LAB (^)           |
| BIOL/GEOL/GEOG 4100  | BIOGEOGRAPHY (^)  |
| BIOL 4120  | CONSERVATION BIOLOGY (^)                                  |

|                          |  |
|--------------------------|--|
| BIOL 4180                | FRESHWATER ECOLOGY (^)                         |
| BIOL 4210                | FIRE ECOLOGY (^)                               |
| BIOL 4220                | POPULATION BIOLOGY (^)                         |
| BIOL 4230                | EVOLUTION (^)                                  |
| BIOL 4240<br>& BIOL 4250 | MARINE BIOLOGY<br>and FIELD MARINE BIOLOGY (^) |
| BIOL/ENVN 4410           | WETLAND ECOLOGY AND<br>MANAGEMENT (^)          |
| BIOL 4420                | RESTORATION ECOLOGY (^)                        |
| BIOL 4540                | PRINCIPLES OF SYSTEMATICS (^)                  |

**Required Chemistry Coursework 14-16****Select one of the following sequences in Chemistry**

## Sequence 1

|                          |  |
|--------------------------|--|
| CHEM 1140<br>& CHEM 1144 | FUNDAMENTALS OF COLLEGE<br>CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE<br>CHEMISTRY LABORATORY (** ^) |
| CHEM 2210<br>& CHEM 2214 | FUNDAMENTALS OF ORGANIC<br>CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC<br>CHEMISTRY LABORATORY (^)    |
| CHEM 3650<br>& CHEM 3654 | FUNDAMENTALS OF BIOCHEMISTRY<br>and FUNDAMENTALS OF<br>BIOCHEMISTRY LABORATORY (^)                 |

## Sequence 2

|                          |   |
|--------------------------|---|
| CHEM 1180<br>& CHEM 1184 | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY (** ^) |
| CHEM 1190<br>& CHEM 1194 | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY (^)  |
| CHEM 2250                | ORGANIC CHEMISTRY I (^)   |
| CHEM 2260                | ORGANIC CHEMISTRY II (^)  |
| CHEM 2274                | ORGANIC CHEMISTRY LABORATORY (^)                                    |

## Sequence 3

|                          |   |
|--------------------------|---|
| CHEM 1180<br>& CHEM 1184 | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY (** ^)                             |
| CHEM 1190<br>& CHEM 1194 | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY (^)                              |
| CHEM 2210<br>& CHEM 2214 | FUNDAMENTALS OF ORGANIC<br>CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC<br>CHEMISTRY LABORATORY (^) |
| CHEM 3650<br>& CHEM 3654 | FUNDAMENTALS OF BIOCHEMISTRY<br>and FUNDAMENTALS OF<br>BIOCHEMISTRY LABORATORY (^)              |

**Required Physics Coursework 5-10****Select one of the following sequences in Physics**

## Sequence 1

|                          |   |
|--------------------------|---|
| PHYS 1050<br>& PHYS 1054 | INTRODUCTION TO PHYSICS<br>and INTRODUCTION TO PHYSICS<br>LABORATORY (** ^) |
| ^                        |   |
| PHYS 1110<br>& PHYS 1154 | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I<br>(** ^)    |
| PHYS 1120<br>& PHYS 1164 | PHYSICS FOR LIFE SCIENCE II<br>and GENERAL PHYSICS LABORATORY II<br>(^)     |

## Sequence 3

|                          |  |
|--------------------------|--|
| PHYS 2110<br>& PHYS 1154 | GENERAL PHYSICS I - CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY I<br>(** ^) |
| PHYS 2120<br>& PHYS 1164 | GENERAL PHYSICS II-CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY II<br>(^)    |

**Select two of the following courses in Mathematics or Computer Science 6**

|           |   |
|-----------|---|
| MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT (** )                            |
| MATH 1320 | COLLEGE ALGEBRA   |
| MATH 1330 | TRIGONOMETRY (^)  |
| MATH 1340 | ALGEBRA AND TRIGONOMETRY FOR<br>CALCULUS (^)                  |
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE,<br>AND SOCIAL SCIENCES (^) |
| MATH 1940 | CALCULUS FOR BIOMEDICINE (^)                                  |
| MATH 1950 | CALCULUS I (^)  |
| CSCI 1200 | COMPUTER SCIENCE PRINCIPLES (** ^)                            |
| CSCI 1620 | INTRODUCTION TO COMPUTER<br>SCIENCE II (^)                    |
| CIST 1400 | INTRODUCTION TO COMPUTER<br>SCIENCE I (^)                     |

**Select one of the following courses in Statistics 3**

|           |  |
|-----------|--|
| BIOL 2020 | STATISTICS FOR LIFE AND<br>ENVIRONMENTAL SCIENCE (^) |
| PSYC 3130 | STATISTICS FOR THE BEHAVIORAL<br>SCIENCES (^)        |
| SOC 2130  | SOCIAL STATISTICS (^)                                |
| STAT 3000 | STATISTICAL METHODS I (^)                            |

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ Hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hour

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ Lab or without lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor Science Cognate Requirement 0-15**

See Advisor

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Biology, Bachelor of Science Four Year Plan

**Freshman**

| Fall      |  | Credits |
|-----------|--|---------|
| ENGL 1150 | ENGLISH COMPOSITION I                    | 3       |
| MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT (or higher) | 4       |
| BIOL 1450 | BIOLOGY I                                | 5       |

|  |  |              |
|--|--|--------------|
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.          |  |              |
| General Education Course or Elective   |  | 3            |
| <b>Credits</b>   |  | <b>15</b>    |
| <b>Spring</b>  |  |              |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3            |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3            |
| BIOL 1750  | BIOLOGY II   | 5            |
| Second Math course (3 credits—Consult your advisor for the best options)   |  | 3            |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.                 |  |              |
| <b>Credits</b>   |  | <b>14</b>    |
| <b>Sophomore</b>   |  |              |
| <b>Fall</b>  |  |              |
| Chemistry Supporting Course I (see catalog)  |  | 4-5          |
| Approved Statistics Course (see catalog)   |  | 3            |
| General Education Course or Elective   |  | 3            |
| General Education Course or Elective   |  | 3            |
| General Education Course or Elective   |  | 3            |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.   |  |              |
| <b>Credits</b>   |  | <b>16-17</b> |
| <b>Spring</b>  |  |              |
| Chemistry Supporting Course II (see catalog)   |  | 4-5          |
| BIOL 2140  | GENETICS   | 4            |
| General Education Course or Elective   |  | 3            |
| Elective   |  | 3            |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.                                     |  |              |
| <b>Credits</b>   |  | <b>14-15</b> |
| <b>Junior</b>  |  |              |
| <b>Fall</b>  |  |              |
| BIOL 3020  | MOLECULAR BIOLOGY OF THE CELL                        | 3            |
| BIOL 3340  | ECOLOGY (#)  | 4            |
| Chemistry Supporting Course III ( see catalog))  |  | 3-5          |
| General Education Course or Elective   |  | 3            |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |              |
| <b>Credits</b>   |  | <b>13-15</b> |

**Spring**

|  |     |
|--|-----|
| Chemistry Supporting Course IV (see catalog) or Elective | 3-5 |
| Group II Course with Lab (see catalog)                   | 4   |
| Elective   | 3   |
| Elective   | 3   |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **13-15**

**Senior****Fall**

|  |   |
|--|---|
| Group I Course (see catalog)           | 3 |
| Group II Course with Lab (see catalog) | 4 |
| Physics Course I + Lab (see catalog)   | 5 |
| Elective if needed to reach 120        | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|   |   |
|---|---|
| Group II Course (see catalog)                     | 3 |
| Physics Course II + Lab (see catalog) or Elective | 5 |
| Elective  | 3 |
| Elective if needed to reach 120                   | 3 |
| Elective if needed to reach 120                   | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **17**

**Total Credits** **117-123**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you’re meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

Biology, Bachelor of Science with a Concentration in Education

To obtain a BS with a major in Biology with a concentration in Education, a student must fulfill university, College of Arts & Sciences, College of Education, Health and Human Sciences, and departmental requirements.

Bachelor of Science in Biology with a Concentration in Education Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of “C-”required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |

|  |   |
|--|---|
| A Bachelor of Science in Biology with a Concentration in Education requires a minimum of 37 credits of coursework in Biology. At least 18 Biology credits must be at the 3000 or 4000 level.                 |   |
| A minimum of 42 credits in the College of Education, Health, and Human Sciences are required for the Concentration and state aligned certification requirements.   |   |
| ^Course requires pre-requisite(s)  |   |
| <b>Biology Major</b>   |   |
| <b>Required Biology Coursework - 37-38 Hours Required</b>  |   |
| <b>All of the following:</b>   | <b>34</b>   |
| BIOL 1450  | BIOLOGY I (** ^)  |
| BIOL 1750  | BIOLOGY II (^)  |
| BIOL 2140  | GENETICS (^)  |
| BIOL 2740  | HUMAN ANATOMY AND PHYSIOLOGY I (^)                        |
| BIOL 3020  | MOLECULAR BIOLOGY OF THE CELL (^)                         |
| BIOL 3240  | INTRODUCTION TO IMMUNOLOGY (^)                            |
| BIOL 3340  | ECOLOGY (^)   |
| BIOL 3830  | BIOLOGY OF PATHOGENIC MICROORGANISMS (^)                  |
| BIOL 4230  | EVOLUTION (^)   |
| <b>Additional Biology Coursework</b>   | <b>3-4</b>  |
| Students must take at least one course, together with the associated laboratory, from one of the following groups to obtain at least 3 credits of advanced study beyond the above Biology core requirements. |   |
| <b>Group I - Cellular and Molecular Biology</b>  |   |
| BIOL 4130  | MOLECULAR GENETICS (^)                                    |
| BIOL 4140  | CELLULAR BIOLOGY (^)                                      |
| BIOL 4450 & BIOL 4454  | VIROLOGY and VIROLOGY LABORATORY (^)                      |
| BIOL 4640 & BIOL 4644  | MOLECULAR MICROBIOLOGY and MOLECULAR MICROBIOLOGY LAB (^) |
| BIOL/CHEM 4650   | BIOCHEMISTRY I (^ with following lab)                     |
| BIOL/CHEM 4654   | BIOCHEMISTRY I LABORATORY (^)                             |
| BIOL/CHEM 4660   | BIOCHEMISTRY II (^ with following lab)                    |
| BIOL/CHEM 4664   | BIOCHEMISTRY II LABORATORY (^)                            |
| BIOL 4810  | BEHAVIORAL GENETICS (^)                                   |
| <b>Group II - Structure and Function of Multicellular Systems</b>  |   |
| BIOL 4440  | PLANT PHYSIOLOGY (^)                                      |
| BIOL 4460  | COMPARATIVE IMMUNOLOGY (^)                                |
| BIOL 4850 & BIOL 4830  | DEVELOPMENTAL BIOLOGY and DEVELOPMENTAL GENETICS (^)      |
| <b>Group III - Biodiversity</b>  |   |
| BIOL 3100 & BIOL 3104  | PALEONTOLOGY and INVERTEBRATE PALEONTOLOGY LABORATORY (^) |
| BIOL 3530  | FLORA OF THE GREAT PLAINS (^)                             |
| BIOL 3730  | FAUNA OF THE GREAT PLAINS (^)                             |
| BIOL 4780  | VERTEBRATE ZOOLOGY (^)                                    |
| BIOL 4790  | MAMMALOGY (^)   |
| BIOL 4840  | HERPETOLOGY (^)   |
| BIOL 4940  | ENTOMOLOGY  |
| BIOL 4980  | ORNITHOLOGY (^)   |
| <b>Group IV - Ecology, Evolution, and Conservation Biology</b>   |   |
| BIOL 4180  | FRESHWATER ECOLOGY (^)                                    |



|                          |  |
|--------------------------|--|
| BIOL 4220                | POPULATION BIOLOGY (^)                         |
| BIOL 4240<br>& BIOL 4250 | MARINE BIOLOGY<br>and FIELD MARINE BIOLOGY (^) |
| BIOL 4410                | WETLAND ECOLOGY AND<br>MANAGEMENT (^)          |

**Required Cognate Chemistry Coursework 14**

|                          |  |
|--------------------------|--|
| CHEM 1140<br>& CHEM 1144 | FUNDAMENTALS OF COLLEGE<br>CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE<br>CHEMISTRY LABORATORY (** ^) |
| CHEM 2210<br>& CHEM 2214 | FUNDAMENTALS OF ORGANIC<br>CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC<br>CHEMISTRY LABORATORY (^)    |
| CHEM 3650<br>& CHEM 3654 | FUNDAMENTALS OF BIOCHEMISTRY<br>and FUNDAMENTALS OF<br>BIOCHEMISTRY LABORATORY (^)                 |

**Required Cognate Physics Coursework 5**

|                          |  |
|--------------------------|--|
| PHYS 1110<br>& PHYS 1154 | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I<br>(** ^) |
|--------------------------|--|

**Other Required Cognate Coursework 10**

|           |  |
|-----------|--|
| MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT (**)        |
| STAT 1530 | ELEMENTARY STATISTICS (** ^)             |
| GEOL 1170 | INTRODUCTION TO PHYSICAL GEOLOGY<br>(**) |

**Select all of the following Educator Preparation Program Requirements 39**

|             |   |
|-------------|---|
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)   |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE<br>CLASSROOMS (**^)                   |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY                             |
| TED 2380    | DEVELOPMENT AND LEARNING IN<br>ADOLESCENCE (^)                      |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)                                 |
| TED 3550    | SECONDARY CLASSROOM<br>MANAGEMENT (^)                               |
| TED 3690    | LITERACY AND LEARNING (^)   |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE<br>PRACTICES (^)                      |
| TED 4000    | SPECIAL METHODS IN THE CONTENT<br>AREA (^)                          |
| TED 4600    | CLINICAL PRACTICE AND SEMINAR:<br>ELEMENTARY OR SECONDARY LEVEL (^) |

Must pass Praxis I Core Exam for formal acceptance to Educator Preparation Program; Praxis II Content test required (at completion of endorsement)

**College of Arts and Sciences' college breadth requirement satisfied by this major**

**Bachelor Science Cognate Requirement 0-15**

See advisor

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Bachelor of Science in Biology with a Concentration in Education Four-Year Plan

**Freshman**

| <b>Fall</b>   |   | <b>Credits</b> |
|---|---|----------------|
| ENGL 1150   | ENGLISH COMPOSITION I   | 3              |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR<br>HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH<br>SUPPORT | 3-4            |
| BIOL 1450   | BIOLOGY I   | 5              |
| General Education Course or Elective                      |   | 3              |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 14-15**
**Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| ENGL 1160                            | COLLEGE RESEARCH AND<br>INFORMATION LITERACY         | 3 |
| CMST 1110<br>or CMST 2120            | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3 |
| BIOL 1750                            | BIOLOGY II   | 5 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |

Recommended: Begin studying for Praxis CORE Academic Skills

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 17**
**Summer**

|                          |  |   |
|--------------------------|--|---|
| PHYS 1110<br>& PHYS 1154 | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I | 5 |
|--------------------------|--|---|

**Credits 5**
**Sophomore**

| <b>Fall</b>              |   |   |
|--------------------------|---|---|
| TED 2100                 | EDUCATIONAL FOUNDATIONS   | 3 |
| TED 2200<br>or TED 2060  | HUMAN RELATIONS FOR BIAS-FREE<br>CLASSROOMS<br>or EQUITY, LANGUAGE, AND<br>CULTURAL LITERACY    | 3 |
| CHEM 1140<br>& CHEM 1144 | FUNDAMENTALS OF COLLEGE<br>CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE<br>CHEMISTRY LABORATORY (^) | 5 |
| BIOL 2740                | HUMAN ANATOMY AND PHYSIOLOGY I  | 4 |

Required: Apply for Educator Preparation Program at this time.



Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

### Spring

|                          |   |   |
|--------------------------|---|---|
| BIOL 2140                | GENETICS  | 4 |
| CHEM 2210<br>& CHEM 2214 | FUNDAMENTALS OF ORGANIC<br>CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC<br>CHEMISTRY LABORATORY (*) | 5 |
| GEOL 1170                | INTRODUCTION TO PHYSICAL GEOLOGY  | 4 |

\*CHEM: Please refer to your advisor or the catalog for other Chemistry options.

Recommended but not required: Pass the Praxis CORE Academic Skills.

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 13**

### Summer

|           |                               |   |
|-----------|-------------------------------|---|
| STAT 1530 | ELEMENTARY STATISTICS (*)     | 3 |
| BIOL 3020 | MOLECULAR BIOLOGY OF THE CELL | 3 |

**Credits 6**

### Junior

#### Fall

|                                      |   |   |
|--------------------------------------|---|---|
| TED 2380                             | DEVELOPMENT AND LEARNING IN ADOLESCENCE (*) | 3 |
| TED 2400                             | PLANNING FOR EFFECTIVE TEACHING (*)         | 6 |
| BIOL 4230                            | EVOLUTION                                   | 3 |
| General Education Course or Elective |   | 3 |

\*TED 2400 and 2380 must be taken back-to-back, in either a Morning or Afternoon block.

Required: Pass Praxis CORE Academic Skills by the end of this semester.

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

Required: Acceptance into Educator Preparation Program. Must have 2.75 GPA.

**Credits 15**

### Spring

|                          |  |   |
|--------------------------|--|---|
| TED 3550                 | SECONDARY CLASSROOM MANAGEMENT (*)   | 3 |
| TED 3690                 | LITERACY AND LEARNING (*)  | 3 |
| BIOL 3830                | BIOLOGY OF PATHOGENIC MICROORGANISMS   | 3 |
| BIOL 3240                | INTRODUCTION TO IMMUNOLOGY   | 3 |
| CHEM 3650<br>& CHEM 3654 | FUNDAMENTALS OF BIOCHEMISTRY<br>and FUNDAMENTALS OF<br>BIOCHEMISTRY LABORATORY | 4 |

\*TED 3550 and TED 3690 must be taken back-to-back, in either a Morning or Afternoon block.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 16**

### Summer

|                                      |             |   |
|--------------------------------------|-------------|---|
| BIOL 3340                            | ECOLOGY (*) | 4 |
| General Education Course or Elective |             | 3 |

**Credits 7**

### Senior

#### Fall

|           |   |   |
|-----------|---|---|
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (*)     | 3 |
| SPED 3800 | DIFFERENTIATION AND INCLUSIVE PRACTICES (*) | 3 |

Advanced Themes Biology course w/lab 3-4

General Education Course or Elective 3

\*SPED 3800: Must be taken concurrently with TED 4000 or TED 3550

Recommended but not required: Pass Praxis II.

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 12-13**

### Spring

|          |  |    |
|----------|--|----|
| TED 4600 | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (*) | 12 |
|----------|--|----|

\*Candidates must complete all course work, have a minimum cumulative GPA of 2.75, passing Praxis Core scores (Math, Reading, and Writing), and be accepted into Clinical Practice.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 12**

**Total Credits 132-134**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

GPA Requirements: Cumulative 2.5 GPA for Educator Preparation Program initial acceptance, cumulative 2.75 GPA for formal admission and graduation.

Graduation Requirements: Students must have a cumulative GPA of at least 2.75, no grade lower than "C" in required courses, and no incomplete in required courses to be recommended for graduation.

### Additional Information About this Plan:

**University Degree Requirements:** An undergraduate degree from UNO requires a minimum 120 credit hours, and completion of 30 credit hours per year, on average, is needed to finish in four years. Please review the requirements specific to your program.

**Placement Exams:** For Math, English, and World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Biology Minor

### Biology Minor Requirements

A minor in biology requires a minimum of 21 semester credit hours. All courses counted toward a minor in biology must be applicable toward a major in biology. Students may not earn a Biology minor and a Molecular and Biomedical Biology major.

Students majoring in neuroscience, psychology, bioinformatics, or environmental science with a concentration in life science may not count any upper-division biology courses toward both disciplines.

| Code                    | Title      | Credits   |
|-------------------------|------------|-----------|
| <b>Required Courses</b> |            | <b>14</b> |
| BIOL 1450               | BIOLOGY I  |           |
| BIOL 1750               | BIOLOGY II |           |
| BIOL 2140               | GENETICS   |           |
| or BIOL 3340            | ECOLOGY    |           |

In addition, at least 7 credit hours of courses at the 3000- or 4000-level are required. At least one of the 3000- or 4000-level courses must have a laboratory; BIOL 3340 (Ecology) may not be used to fill this requirement. Students transferring biology credits are required to take a minimum of two 3000- or 4000-level biology courses at UNO.

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## Black Studies

The central mission of the Black Studies discipline is to prepare students to critically understand and interpret complex global histories, cultures, and societies of African people, which includes continental and diasporic Africans. We situate this knowledge within an interdisciplinary general discourse that teaches us about the totality of human experiences involving universal struggles for valued collective and individual identities. Students will employ research, methodology and theories drawn out of the collective Black experience to address relevant issues on behalf of global African communities and the whole of humanity.

## Other Program Related Information

### Fast Track

The Master of Science in Urban Studies program has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing any of the following who wish to pursue a MS in urban studies:
  - BS in Emergency Management
  - BS in Black Studies
  - Bachelor of Multidisciplinary Studies.

- Students must be within at least 30 undergraduate credits yet to complete their undergraduate degree. Exceptional students who do not meet this requirement may be considered.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses.
- Students must consult with the urban studies advisor prior to enrollment in one of the courses listed below.
- A minimum cumulative GPA of 3.5 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the MS in Urban Studies program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - For this program, if students maintain at least a grade of B+ in courses taken, they will be recommended for admission to the MS in urban studies.
  - The admit term must be after the completion term of the undergraduate degree.

The following courses may be taken under the Fast Track program

- UBNS 8000:Seminar in Urban Studies
- UBNS 8060:Introduction to Urban Planning
- UBNS 8020:Race, Ethnicity and American Urban Culture\*\*
- UBNS 8200:Community Organizing and Development\*\*
- PA 8010:The Public Economy (Must have completed or be concurrently enrolled in UBNS 8000)

## Other Information

All coursework taken for the Black Studies major or minor must be completed with a minimum grade of "C-" or better. Credits not considered applicable toward the completion of the Black Studies major or minor include those graded less than "C-", "I" (incomplete), "AU" (audit), "CR/NC" (credit/no-credit), or "S/U" (satisfactory/unsatisfactory).

## Contact Information

184 Arts and Sciences Hall  
 Phone 402.554.2412  
 Fax 402.554.3883  
 Email: [unoblackstudies@unomaha.edu](mailto:unoblackstudies@unomaha.edu)  
 Facebook: [facebook.com/unoblackstudies](https://www.facebook.com/unoblackstudies)

## Website (<http://www.unomaha.edu/blst/>)

### Degrees Offered

- Black Studies, Bachelor of Science (p. 90)

## Minors Offered

- Black Studies Minor (p. 92)

The central mission of the UNO Black Studies discipline is to prepare students to critically understand and interpret the complex histories,

societies, and cultures of African people across the globe, and to employ theoretical and methodological tools drawn out of the collective Black experience in addressing relevant natural and social global issues on behalf of humanity. We situate this knowledge within a general discourse concerning what it teaches us about the totality of the human experience.

- Business, Entrepreneurship, Marketing
- Cultural Resources Manager
- Education
- Government
- Law & Criminal Justice
- Literature
- Media & Journalism
- Medicine & Health
- Performing Arts & Entertainment
- Politics
- Professor
- Religion
- Social & Community Services
- Visual & Decorative Arts

## Black Studies, Bachelor of Science

The central mission of the Black Studies discipline is to prepare students to critically understand and interpret complex global histories, cultures, and societies of African people, which includes continental and diasporic populations. We situate this knowledge within an interdisciplinary general discourse that teaches us about the totality of human experiences involving universal struggles for valued collective and individual identities. Students will employ research, methodology and theories drawn out of the collective Black experience to address relevant issues on behalf of global African communities and the whole of humanity.

## Degree Student Learning Objectives

Students will be able to demonstrate global knowledge of Africana histories, civilizations, and social movements, and their impact on global cultures, civilizations, and societies. Through written research and oral communication skills, students will synthesize and employ research methods and theories that demonstrate comprehension of the Black Studies discipline.

## Contact Information

184 Arts and Sciences Hall  
Phone 402.554.2412  
Fax 402.554.3883  
Email: [unoblackstudies@unomaha.edu](mailto:unoblackstudies@unomaha.edu)  
Facebook: [facebook.com/unoblackstudies](https://www.facebook.com/unoblackstudies)

## Website (<http://www.unomaha.edu/blst/>)

To obtain a B.S. with a major in Black Studies, a student must fulfill university, college, and departmental requirements.

## Black Studies, Bachelor of Science Requirements

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |
| Minimum of "C-" required                                  |       |         |

### Fundamental Skills 15

#### Writing – 6 hrs.

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

#### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

#### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

#### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS - 33 Hours Required

^Course required pre-requisite(s)

### Required Coursework 15

|                         |   |
|-------------------------|---|
| BLST 1000               | INTRODUCTION TO BLACK STUDIES (**)            |
| BLST/HIST 1050          | CLASSICAL AFRICAN CIVILIZATIONS (**)          |
| BLST/WGST 1950          | BLACK WOMEN IN AMERICA (**)                   |
| BLST 2100               | EXPERIENCES IN BLACK STUDIES (**)             |
| BLST 2410/<br>HIST 2040 | AFRICAN AMERICAN HISTORY I:<br>1619-1865 (**) |
| or HIST 2050            | AFRICAN-AMERICAN HISTORY II: 1865-1954        |

### Select 6 of the Following: 18

Note: Other 3000 or 4000 level courses may count toward the 18 hour requirement with approval of program

|                         |   |
|-------------------------|---|
| BLST/GEOS 3030          | GEOGRAPHY OF AFRICA                                   |
| BLST/PSCI 3120          | THE AFRICAN AMERICAN EXPERIENCE IN POLITICS           |
| BLST/PSYC 3250          | RACE, PSYCHOLOGY & CULTURAL DIFFERENCE                |
| BLST/PSCI/CRCJ 3410     | LAW AND THE BLACK COMMUNITY                           |
| BLST/PSCI 3450          | AFRICAN ECONOMIC DEVELOPMENT                          |
| BLST/RELI 4030          | AFRICANA RELIGIONS                                    |
| BLST/PSYC 4150          | AFRICAN AMERICAN PSYCHOLOGY (** ^)                    |
| BLST/ENGL 4210          | THE HARLEM RENAISSANCE (^)                            |
| BLST 4350/<br>HIST 4080 | THE BLACK ATLANTIC (^)                                |
| BLST/PSCI/SOC 4470      | SOUTH AFRICA & THE SOCIO POLITICS OF APARTHEID (** ^) |

|                         |   |
|-------------------------|---|
| BLST 4650/<br>HIST 4070 | SLAVERY AND RACE RELATIONS IN THE AMERICAS (** ^) |
| BLST 4710/<br>PSCI 4130 | BROWN V. BOARD OF EDUCATION (** ^)                |

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: : CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Requirement 15**

Students in the B.S. degree program are required to complete 15 hours of cognate coursework, a field of specialization outside of their major based on their interests and/or career aspirations. Cognates are designed by the student in consultation with the undergraduate adviser.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Black Studies, Bachelor of Science Four-Year Plan

**Freshman**

|   |   | Credits |
|---|---|---------|
| <b>Fall</b>   |   |         |
| BLST 1000   | INTRODUCTION TO BLACK STUDIES   | 3       |
| BLST 1050<br>or HIST 1050   | CLASSICAL AFRICAN CIVILIZATIONS<br>or CLASSICAL AFRICAN CIVILIZATIONS | 3       |
| ENGL 1150   | ENGLISH COMPOSITION I   | 3       |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                  | 3       |
| General Education Course or Elective  |   | 3       |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellar. |   |         |

**Credits 15**

**Spring**

|   |  |     |
|---|--|-----|
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY  | 3   |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH SUPPORT | 3-4 |
| BLST/WGST 1950  | BLACK WOMEN IN AMERICA   | 3   |
| General Education Course or Elective                      |  | 3   |
| General Education Course or Elective                      |  | 3   |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 15-16**

**Sophomore**
**Fall**

|                     |   |   |
|---------------------|---|---|
| BLST 2410/HIST 2040 | AFRICAN AMERICAN HISTORY I: 1619-1865<br>or HIST 2050 or AFRICAN-AMERICAN HISTORY II: 1865-1954 | 3 |
|---------------------|---|---|

General Education Course or Elective 3

General Education Course or Elective 3

General Education Course or Elective 3

General Education Course or Elective 3

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|           |                              |   |
|-----------|------------------------------|---|
| BLST 2100 | EXPERIENCES IN BLACK STUDIES | 3 |
|-----------|------------------------------|---|

General Education Course or Elective 3

General Education Course or Elective 3

Elective 3

Elective 3

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Junior**
**Fall**

|                      |  |   |
|----------------------|--|---|
| BLST 3000/4000 Level |  | 3 |
| B.S. Cognate course  |  | 3 |
| B.S. Cognate course  |  | 3 |
| Elective             |  | 3 |
| Elective             |  | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15**

**Spring**

|                      |  |   |
|----------------------|--|---|
| BLST 3000/4000 Level |  | 3 |
| BLST 3000/4000 Level |  | 3 |
| B.S. Cognate course  |  | 3 |
| B.S. Cognate course  |  | 3 |
| Elective             |  | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| Credits  | 15             |
|--|----------------|
| <b>Senior</b>  |                |
| <b>Fall</b>  |                |
| BLST 3000/4000 Level   | 3              |
| B.S. Cognate course  | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |                |
| <b>Credits</b>   | <b>15</b>      |
| <b>Spring</b>  |                |
| BLST 3000/4000 Level   | 3              |
| BLST 3000/4000 Level   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.   |                |
| Make arrangements to take Black Studies' Exit Survey.  |                |
| <b>Credits</b>   | <b>15</b>      |
| <b>Total Credits</b>   | <b>120-121</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

Majors are encouraged to complete a community-based activity that includes at one or more of the following:

- a local community-based study project;
- a service-learning connected course;
- a study abroad experience;
- a local community-based internship experience.

#### Exit Survey Requirements:

For departmental assessment purposes, each major must complete an Exit Survey/questionnaire that will be available to all seniors prior to graduation.

Exit Survey must be completed or scheduled to be completed prior to graduation.

## Black Studies Minor

### Black Studies Minor Requirements

A Black Studies minor may be obtained by successful completion of fifteen (15) credits of course work, of which at least nine (9) hours must be composed of upper division (3000 - 4000 level) departmental courses.

## Chemistry

The Department of Chemistry, which is approved by the American Chemical Society (ACS), offers both Bachelor of Science (B.S.) and Bachelor of Arts (B.A.) degrees. Students can choose among three B.S. degree options. The B.S. degree in Chemistry is designed for majors planning to be industrial or government chemists, planning to pursue a graduate degree in chemistry or biochemistry, or considering professional degrees in fields such as medicine. The B.S. degree with Concentration in Medicinal Chemistry is designed for students interested in health fields, graduate programs in life sciences or professional study such as pharmacy or medicine. The B.S. degree with Concentration in Education is designed for students planning to teach high school chemistry or plan to teach at a more advanced level and want to develop their teaching skills as part of their undergraduate education. The B.A. degree is appropriate for chemical technologists and pre-professional students, particularly fields other than the health sciences.

## Other Information

Students working toward a degree in Chemistry or a Chemistry minor must earn a grade of "C-" or better in all courses used to fulfill Chemistry major or minor requirements. A GPA of 2.0 or higher in chemistry and cognate courses is required to graduate with a Chemistry major or minor.

The department highly encourages students to engage in undergraduate research with a faculty mentor. Students can start undergraduate research with CHEM 2950 or CHEM 4950 depending on their background and the needs of their faculty supervisor.

To make room for students making regular academic progress, those students who have been enrolled in a course three or more times: 1) will not be allowed to enroll prior to the first week of classes; and 2) will need permission of the instructor to enroll.

High school students who have successfully completed advanced high school chemistry courses (AP and/or IB) and are considering a modified course of study should consult with the department.

## Chemistry and double majors, minors

Pharmaceutical Sciences majors



- may not add a Chemistry minor
- may add a Chemistry major or dual degree (BA Chemistry; BS Pharmaceutical Sciences), without overlapping restrictions.

#### Molecular and Biomedical Biology and Chemistry

- MBB majors may add a Chemistry minor or double major (no concentration) without overlapping restrictions
- MBB and Chemistry-Medicinal Chemistry as double majors may not count CHEM 4660-4664 Biochemistry II Lecture and Lab toward both majors.
- Chemistry-Medicinal Chemistry majors may add a Molecular and Biomedical Biology minor without overlapping restrictions

#### Biology and Chemistry

- Dual degrees with Biology and Chemistry (one being the BA, the other a BS) may not use the same 3000-4000 level Chemistry course toward both programs.
- One degree (BA or BS) with two majors (double major) of Biology and Chemistry may count the same 3000-4000 level Chemistry courses toward both programs.
- A Chemistry major and Biology minor may overlap 3000-4000 level Chemistry courses.
- A Biology major and Chemistry minor may overlap 3000-4000 level Chemistry courses.

## Student Groups

The Department of Chemistry has an active student led Chemistry Club. Please visit our dedicated student organizations website (<https://www.unomaha.edu/college-of-arts-and-sciences/chemistry/student-opportunities/student-organizations.php>) for more information.

## Contact Information

337 Durham Science Center  
402.554.2651

**Website (<http://www.unomaha.edu/college-of-arts-and-sciences/chemistry/>)**

## Degrees Offered

- Chemistry, Bachelor of Arts (p. 93)
- Chemistry, Bachelor of Science (p. 96)
- Chemistry, Bachelor of Science with a Concentration in Medicinal Chemistry (p. 101)
- Chemistry, Bachelor of Science with a Concentration in Chemistry Education (p. 98)

## Minors Offered

- Chemistry Minor (p. 105)

Love chemistry? Take the challenge and become a chemistry major! A career in chemistry is exciting. Most of our graduate majors go to professional schools (medical, dental, pharmacy schools, and other health related careers), some pursue graduate schools, and the rest land a job in industry. Companies that hire chemists include pharmaceutical companies, bulk commodity chemical companies, food manufacturers, personal, and household care product companies, and some of our students enjoy teaching in the K-12 schools!

Career options include, but are not limited to

- Healthcare professional (medical doctor, nurse, pharmacist, and dentist)\*
- Professor after graduate schools\*
- Lab chemist
- Lab technician

- Quality assurance specialist
- Science teacher

\*Advanced Degree Required

## Chemistry, Bachelor of Arts

To obtain a B.A. with a major in Chemistry, a student must fulfill university, college, and departmental requirements.

## Chemistry, Bachelor of Arts Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |  |           |
| Minimum of "C-" required  |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I  |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                    |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS  |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                     |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING      |           |
| or MATH 1130  | QUANTITATIVE LITERACY  |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS          |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                 |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                              |           |
| STAT 1530   | ELEMENTARY STATISTICS  |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>Chemistry Major - 55 Hours Required</b>  |  |           |
| <b>Required Chemistry Coursework</b>  |  | <b>23</b> |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (^)   |           |
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^) |           |
| CHEM 2250   | ORGANIC CHEMISTRY I (^)                                      |           |



|  |  |               |
|--|--|---------------|
| CHEM 2260<br>& CHEM 2274   | ORGANIC CHEMISTRY II<br>and ORGANIC CHEMISTRY<br>LABORATORY (^)                  |               |
| CHEM 2400<br>& CHEM 2404   | QUANTITATIVE ANALYSIS<br>and QUANTITATIVE ANALYSIS LAB (^)                       |               |
| CHEM 2500  | INTRODUCTION TO INORGANIC<br>CHEMISTRY (^)                                       |               |
| CHEM 4900  | SENIOR ASSESSMENT IN CHEMISTRY   |               |
| <b>Select two of the following:</b>  |  | <b>8</b>      |
| CHEM 3350<br>& CHEM 3354   | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY (^)               |               |
| CHEM 3360<br>& CHEM 3364   | PHYSICAL CHEMISTRY II<br>and PHYSICAL CHEMISTRY II<br>LABORATORY (^)             |               |
| CHEM 4650<br>& CHEM 4654   | BIOCHEMISTRY I<br>and BIOCHEMISTRY I LABORATORY (^)                              |               |
| <b>Additional credit hours of chemistry must come from the<br/>chemistry courses approved for the B.S. in Chemistry<br/>degree</b> |  | <b>5</b>      |
| <b>Other Required Coursework*</b>  |  | <b>9</b>      |
| MATH 1950  | CALCULUS I (^)   |               |
| MATH 1960  | CALCULUS II (^)  |               |
| *MATH 1970, Calculus III, is recommended but not required  |  |               |
| To graduate with an ACS certified degree, see your chemistry<br>advisor for proper course selection.                               |  |               |
| <b>Select one of the following sequences</b>   |  | <b>10</b>     |
| Sequence A   |  |               |
| PHYS 2110<br>& PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY I<br>(** ^) |               |
| PHYS 2120<br>& PHYS 1164   | GENERAL PHYSICS II-CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY II<br>(^)    |               |
| Sequence B   |  |               |
| PHYS 1110<br>& PHYS 1154   | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I<br>(** ^)         |               |
| PHYS 1120<br>& PHYS 1164   | PHYSICS FOR LIFE SCIENCE II<br>and GENERAL PHYSICS LABORATORY II<br>(^)          |               |
| <b>College Breadth (choose one option)</b>   |  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate<br>certificate - 15+ hours   |  |               |
| Option 2: Additional General Education Requirements - 18+<br>hours   |  |               |
| Additional quantitative literacy - 3 hours   |  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3<br>hours  |  |               |
| Additional Humanities Gen. Ed. from another Discipline - 3<br>hours  |  |               |
| HIST 1000 and HIST 1010 - 6 hours  |  |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5<br>hours  |  |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second<br>UNO major (30+ hours)   |  |               |
| <b>BA Language Requirement</b>   |  | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110**, 1120, 2110, 2120  |  |               |
| <b>ELECTIVES</b>   |  |               |
| Elective hours as required to reach a total of 120 hours   |  |               |

## Chemistry, Bachelor of Arts Four-Year Plan

### Freshman

#### Fall

|  |  |                     |
|--|--|---------------------|
| CHEM 1180<br>& CHEM 1184   | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY | <b>Credits</b><br>4 |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE         | 3                   |
| ENGL 1150  | ENGLISH COMPOSITION I  | 3                   |
| MATH 1950  | CALCULUS I   | 5                   |
| Attend Durango Days; other campus events.  |  |                     |
| Set up a Handshake account and take the Pathway U career<br>assessment.              |  |                     |
| Attend the Student Involvement & Volunteer Fair to explore<br>student organizations. |  |                     |
| Make advising appointment for spring: Sept-Oct.                                      |  |                     |
| Work with your advisor to develop your Pathway in Stellic.                           |  |                     |

**Credits** **15**

#### Spring

|  |  |   |
|--|--|---|
| CHEM 1190<br>& CHEM 1194   | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY | 4 |
| ENGL 1160  | COLLEGE RESEARCH AND<br>INFORMATION LITERACY                   | 3 |
| MATH 1960  | CALCULUS II  | 4 |
| General Education Course or Elective   |  | 3 |
| Attend campus events such as major exploration week to get<br>an idea of interests and career paths. |  |   |
| Schedule a resume review with UNO Career Services.   |  |   |
| Visit faculty office hours and ask about undergraduate<br>research opportunities.                    |  |   |
| Make advising appointment for summer and fall: February -<br>March.                                  |  |   |

**Credits** **14**

### Summer

|                           |  |          |
|---------------------------|--|----------|
| PHYS 2110<br>or PHYS 1110 | GENERAL PHYSICS I - CALCULUS LEVEL<br>(*)<br>or PHYSICS FOR LIFE SCIENCE I | 4        |
| PHYS 1154                 | GENERAL PHYSICS LABORATORY I   | 1        |
| <b>Credits</b>            |  | <b>5</b> |

### Sophomore

#### Fall

|  |  |   |
|--|--|---|
| CHEM 2250  | ORGANIC CHEMISTRY I                                    | 3 |
| CHEM 2400<br>& CHEM 2404   | QUANTITATIVE ANALYSIS<br>and QUANTITATIVE ANALYSIS LAB | 4 |
| General Education Course or Elective                                       |  | 3 |
| General Education Course or Elective                                       |  | 3 |
| Attend the Career & Internship Fair to start networking with<br>employers. |  |   |
| Look for volunteer, research, or part-time work to gain<br>experience.     |  |   |
| Join a student organization or club related to your field or<br>interests. |  |   |
| Make advising appointment for spring: Sept. - Oct.                         |  |   |

**Credits** **13**

**Spring**

|   |   |   |
|---|---|---|
| CHEM 2260<br>& CHEM 2274  | ORGANIC CHEMISTRY II<br>and ORGANIC CHEMISTRY<br>LABORATORY | 5 |
| CHEM 2500   | INTRODUCTION TO INORGANIC<br>CHEMISTRY                      | 3 |
| General Education Course or Elective  |   | 3 |
| General Education Course or Elective  |   | 3 |
| Attend a career fair for informational and networking purposes.                   |   |   |
| Update your resume and LinkedIn profile with new experiences.                     |   |   |
| Investigate and apply for summer internships, research, or study abroad programs. |   |   |
| Make advising appointment for summer and fall: February – March.                  |   |   |

**Credits 14**

**Summer**

|                           |  |   |
|---------------------------|--|---|
| PHYS 2120<br>or PHYS 1120 | GENERAL PHYSICS II-CALCULUS LEVEL<br>(*)<br>or PHYSICS FOR LIFE SCIENCE II | 4 |
| PHYS 1164                 | GENERAL PHYSICS LABORATORY II  | 1 |

**Credits 5**

**Junior****Fall**

|  |  |     |
|--|--|-----|
| CHEM 3350<br>& CHEM 3354   | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY | 4   |
| OR   |  |     |
| CHEM 4650<br>& CHEM 4654   | BIOCHEMISTRY I<br>and BIOCHEMISTRY I LABORATORY                |     |
| Advanced Chemistry Course  |  | 1-3 |
| General Education Course or Elective   |  | 3   |
| World Language 1110  |  | 5   |
| Apply for a paid internship or research assistantship.                               |  |     |
| Attend a mock interview workshop or use online interview tools with Career Services. |  |     |
| Start researching and visiting graduate programs or professional schools.            |  |     |
| Visit Career Center, continue updating resume.                                       |  |     |
| Make advising appointment for spring: Sept-Oct.                                      |  |     |

**Credits 13-15**

**Spring**

|   |  |   |
|---|--|---|
| CHEM 3360<br>& CHEM 3364  | PHYSICAL CHEMISTRY II<br>and PHYSICAL CHEMISTRY II<br>LABORATORY | 4 |
| OR Advanced Chemistry Course  |  |   |
| World Language 1120   |  | 5 |
| General Education Course or Elective  |  | 3 |
| General Education Course or Elective  |  | 3 |
| Request letters of recommendation from faculty for jobs or grad school.                             |  |   |
| Attend the All-Majors Career Fair with a plan to network.   |  |   |
| Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. |  |   |
| Make advising appointment for summer and fall: February – March.                                    |  |   |

**Credits 15**

**Senior****Fall**

|  |  |   |
|--|--|---|
| CHEM 3350<br>& CHEM 3354   | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY | 4 |
| OR   |  |   |
| CHEM 4650<br>& CHEM 4654   | BIOCHEMISTRY I<br>and BIOCHEMISTRY I LABORATORY                |   |
| OR Advanced Chemistry Course (3-4 cr)                                |  |   |
| World Language 2110  |  | 3 |
| General Education Course or Elective                                 |  | 3 |
| General Education Course or Elective                                 |  | 3 |
| Check in with Career Center for networking tips.                     |  |   |
| Finalize graduate school applications or job search strategy.        |  |   |
| Attend a career fair and start applying for full-time jobs.          |  |   |
| Prepare for interviews and salary negotiations with Career Services. |  |   |
| Make advising appointment for spring: Sept. - Oct.                   |  |   |

**Credits 13**

**Spring**

|   |                                |   |
|---|--------------------------------|---|
| CHEM 4900   | SENIOR ASSESSMENT IN CHEMISTRY | 0 |
| Advanced Chemistry Course or Elective to reach 120 hours                  |                                |   |
| World Language 2120   |                                | 3 |
| General Education Course or Elective                                      |                                | 3 |
| General Education Course or Elective                                      |                                | 3 |
| Complete your final advising check before graduation.                     |                                |   |
| Polish your resume, cover letters, and LinkedIn profile.                  |                                |   |
| Stay connected by joining alumni networks and professional organizations. |                                |   |
| Apply for graduation via MavLink.   |                                |   |

**Credits 12**

**Total Credits 119-121**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>. Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation

plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

# Chemistry, Bachelor of Science

To obtain a B.S. with a major in Chemistry, a student must fulfill university, college, and departmental requirements.

## Chemistry, Bachelor of Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                     |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                      |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING       |           |
| or MATH 1130  | QUANTITATIVE LITERACY   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS           |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                  |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                               |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Chemistry Major - 61 Hours Required</b>  |   |           |
| <b>Required Chemistry Coursework</b>  |   | <b>35</b> |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^) |           |
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)  |           |
| CHEM 2250   | ORGANIC CHEMISTRY I (^)                                       |           |

|  |  |          |
|--|--|----------|
| CHEM 2260<br>& CHEM 2274   | ORGANIC CHEMISTRY II<br>and ORGANIC CHEMISTRY<br>LABORATORY (^)      |          |
| CHEM 2400<br>& CHEM 2404   | QUANTITATIVE ANALYSIS<br>and QUANTITATIVE ANALYSIS LAB (^)           |          |
| CHEM 2500  | INTRODUCTION TO INORGANIC<br>CHEMISTRY (^)                           |          |
| CHEM 3350<br>& CHEM 3354   | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY (^)   |          |
| CHEM 3360<br>& CHEM 3364   | PHYSICAL CHEMISTRY II<br>and PHYSICAL CHEMISTRY II<br>LABORATORY (^) |          |
| CHEM 4400<br>& CHEM 4404   | INSTRUMENTAL ANALYSIS<br>and INSTRUMENTAL ANALYSIS<br>LABORATORY (^) |          |
| CHEM 4900  | SENIOR ASSESSMENT IN CHEMISTRY                                       |          |
| <b>Additional credit hours of chemistry must come from the following</b> |  | <b>7</b> |
| Analytical   |  |          |
| CHEM 3030  | ENVIRONMENTAL CHEMISTRY (^)  |          |
| CHEM 3424  | SPECTROMETRIC CHARACTERIZATIONS<br>(^)                               |          |
| Biochemistry   |  |          |
| CHEM 4610  | BIOCHEMISTRY OF METABOLISM (^)                                       |          |
| CHEM/BIOL 4650   | BIOCHEMISTRY I ( ^ with the following<br>lab)                        |          |
| CHEM/BIOL 4654   | BIOCHEMISTRY I LABORATORY (^)  |          |
| CHEM/BIOL 4660   | BIOCHEMISTRY II ( ^with the following<br>lab)                        |          |
| CHEM/BIOL 4664   | BIOCHEMISTRY II LABORATORY (^)                                       |          |
| CHEM 4670  | PROTEIN PURIFICATION AND<br>CHARACTERIZATION                         |          |
| Chemistry Education  |  |          |
| CHEM 3720  | CHEMISTRY TEACHING STRATEGIES (^)                                    |          |
| Inorganic  |  |          |
| CHEM 3514  | INORGANIC PREPARATIONS (^)   |          |
| CHEM 4500  | ADVANCED INORGANIC CHEMISTRY (^)                                     |          |
| CHEM 4510  | SOLID STATE INORGANIC CHEMISTRY (^)                                  |          |
| CHEM 4540  | GEOCHEMISTRY (^)   |          |
| Medicinal  |  |          |
| CHEM 3710  | ESSENTIALS OF MEDICINAL CHEMISTRY<br>(^)                             |          |
| Nuclear  |  |          |
| CHEM 4320  | NUCLEAR CHEMISTRY (^)  |          |
| Organic  |  |          |
| CHEM 3210  | INTRODUCTION TO MOLECULAR<br>MODELING (^)                            |          |
| CHEM 4230  | ADVANCED ORGANIC CHEMISTRY -<br>SYNTHESIS (^)                        |          |
| CHEM 4240  | ADVANCED ORGANIC CHEMISTRY -<br>MECHANISM (^)                        |          |
| CHEM 4250  | ADVANCED ORGANIC CHEMISTRY:<br>MECHANISMS AND MODELING (^)           |          |
| Polymer  |  |          |
| CHEM 4310  | POLYMER CHEMISTRY (^)  |          |
| Research   |  |          |
| CHEM 4950  | CHEMISTRY PROJECTS (^)   |          |
| CHEM 4960  | CHEMISTRY PROBLEMS (^)   |          |
| Internship   |  |          |

|   |   |               |
|---|---|---------------|
| CHEM 4810   | CHEMISTRY INTERNSHIP (^)                  |               |
| Special Topics  |   |               |
| CHEM 4930   | SPECIAL TOPICS IN CHEMISTRY (^)           |               |
| <b>Required Cognate Coursework*</b>   |   | <b>19</b>     |
| MATH 1950   | CALCULUS I (^)                            |               |
| MATH 1960   | CALCULUS II (^)                           |               |
| PHYS 2110   | GENERAL PHYSICS I - CALCULUS LEVEL (** ^) |               |
| or PHYS 1110  | PHYSICS FOR LIFE SCIENCE I                |               |
| PHYS 1154   | GENERAL PHYSICS LABORATORY I (** ^)       |               |
| PHYS 2120   | GENERAL PHYSICS II-CALCULUS LEVEL (^)     |               |
| or PHYS 1120  | PHYSICS FOR LIFE SCIENCE II               |               |
| PHYS 1164   | GENERAL PHYSICS LABORATORY II (^)         |               |
| *MATH 1970, Calculus III, is recommended but not required   |   |               |
| To graduate with an ACS certified degree, see your chemistry advisor for proper course selection. |   |               |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours                         |   |               |
| Option 2: Additional General Education Requirements - 18+ hours                                   |   |               |
| Additional quantitative literacy - 3 hours  |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours                              |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                                  |   |               |
| HIST 1000 and HIST 1010 - 6 hours   |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                                |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)                 |   |               |
| <b>Bachelor of Science Cognate Requirement</b>  |   | <b>0</b>      |
| See major.  |   |               |
| ELECTIVES   |   |               |
| Elective hours as required to reach a total of 120 hours  |   |               |

## Chemistry, Bachelor of Science Four-year Plan

### Freshman

|   |  |                |
|---|--|----------------|
| <b>Fall</b>   |  | <b>Credits</b> |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY | 4              |
| CMST 1110 or CMST 2120  | PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE      | 3              |
| ENGL 1150   | ENGLISH COMPOSITION I                                  | 3              |
| MATH 1950   | CALCULUS I   | 5              |
| Attend Durango Days; other campus events.   |  |                |
| Set up a Handshake account and take the Pathway U career assessment.              |  |                |
| Attend the Student Involvement & Volunteer Fair to explore student organizations. |  |                |
| Make advising appointment for spring: Sept-Oct.                                   |  |                |
| Work with your advisor to develop your Pathway in Stellic.                        |  |                |
| <b>Credits</b>  |  | <b>15</b>      |

### Spring

|   |  |           |
|---|--|-----------|
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY | 4         |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                | 3         |
| MATH 1960   | CALCULUS II  | 4         |
| General Education Course or Elective  |  | 3         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. |  |           |
| Schedule a resume review with UNO Career Services.  |  |           |
| Visit faculty office hours and ask about undergraduate research opportunities.                    |  |           |
| Make advising appointment for summer and fall: February – March.                                  |  |           |
| <b>Credits</b>  |  | <b>14</b> |

### Summer

|                        |   |          |
|------------------------|---|----------|
| PHYS 2110 or PHYS 1120 | GENERAL PHYSICS I - CALCULUS LEVEL or PHYSICS FOR LIFE SCIENCE II | 4        |
| PHYS 1154              | GENERAL PHYSICS LABORATORY I                                      | 1        |
| <b>Credits</b>         |   | <b>5</b> |

### Sophomore

#### Fall

|   |   |           |
|---|---|-----------|
| CHEM 2250   | ORGANIC CHEMISTRY I                                 | 3         |
| CHEM 2400 & CHEM 2404   | QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB | 4         |
| General Education Course or Elective                                    |   | 3         |
| General Education Course or Elective                                    |   | 3         |
| General Education Course or Elective                                    |   | 2         |
| Attend the Career & Internship Fair to start networking with employers. |   |           |
| Look for volunteer, research, or part-time work to gain experience.     |   |           |
| Join a student organization or club related to your field or interests. |   |           |
| Make advising appointment for spring: Sept. - Oct.                      |   |           |
| <b>Credits</b>  |   | <b>15</b> |

### Spring

|   |   |           |
|---|---|-----------|
| CHEM 2260 & CHEM 2274   | ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY | 5         |
| CHEM 2500   | INTRODUCTION TO INORGANIC CHEMISTRY                   | 3         |
| General Education Course or Elective  |   | 3         |
| General Education Course or Elective  |   | 3         |
| Attend a career fair for informational and networking purposes.                   |   |           |
| Investigate and apply for summer internships, research, or study abroad programs. |   |           |
| Make advising appointment for summer and fall: February – March.                  |   |           |
| <b>Credits</b>  |   | <b>14</b> |

### Summer

|                        |  |          |
|------------------------|--|----------|
| PHYS 2120 or PHYS 1120 | GENERAL PHYSICS II-CALCULUS LEVEL or PHYSICS FOR LIFE SCIENCE II | 4        |
| PHYS 1164              | GENERAL PHYSICS LABORATORY II                                    | 1        |
| <b>Credits</b>         |  | <b>5</b> |

**Junior****Fall**

|  |  |   |
|--|--|---|
| CHEM 3350<br>& CHEM 3354   | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY | 4 |
| General Education Course or Elective   |  | 3 |
| General Education Course or Elective   |  | 3 |
| General Education Course or Elective   |  | 3 |
| Apply for a paid internship or research assistantship.                               |  |   |
| Attend a mock interview workshop or use online interview tools with Career Services. |  |   |
| Start researching and visiting graduate programs or professional schools.            |  |   |
| Visit Career Center, continue updating resume.                                       |  |   |
| Make advising appointment for spring: Sept-Oct.                                      |  |   |

**Credits** **13**

**Spring**

|   |  |   |
|---|--|---|
| CHEM 3360<br>& CHEM 3364  | PHYSICAL CHEMISTRY II<br>and PHYSICAL CHEMISTRY II<br>LABORATORY | 4 |
| Advanced Chemistry Elective   |  | 4 |
| General Education Course or Elective  |  | 3 |
| General Education Course or Elective  |  | 3 |
| Request letters of recommendation from faculty for jobs or grad school.                             |  |   |
| Attend the All-Majors Career Fair with a plan to network.   |  |   |
| Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. |  |   |
| Make advising appointment for summer and fall: February – March.                                    |  |   |

**Credits** **14**

**Senior****Fall**

|  |  |   |
|--|--|---|
| Advanced Chemistry Elective  |  | 3 |
| General Education Course or Elective                                 |  | 3 |
| General Education Course or Elective                                 |  | 3 |
| General Education Course or Elective                                 |  | 3 |
| Check in with Career Center for networking tips.                     |  |   |
| Finalize graduate school applications or job search strategy.        |  |   |
| Attend a career fair and start applying for full-time jobs.          |  |   |
| Prepare for interviews and salary negotiations with Career Services. |  |   |
| Make advising appointment for spring: Sept. - Oct.                   |  |   |

**Credits** **12**

**Spring**

|   |  |   |
|---|--|---|
| CHEM 4900   | SENIOR ASSESSMENT IN CHEMISTRY                                   | 0 |
| CHEM 4400<br>& CHEM 4404  | INSTRUMENTAL ANALYSIS<br>and INSTRUMENTAL ANALYSIS<br>LABORATORY | 4 |
| General Education Course or Elective                                      |  | 3 |
| General Education Course or Elective                                      |  | 3 |
| General Education Course or Elective                                      |  | 3 |
| Complete your final advising check before graduation.                     |  |   |
| Polish your resume, cover letters, and LinkedIn profile.                  |  |   |
| Stay connected by joining alumni networks and professional organizations. |  |   |

Apply for graduation via MavLink.

**Credits** **13**

**Total Credits** **120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper-level credits throughout the degree with at least 18 upper-level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Chemistry, Bachelor of Science with a Concentration in Chemistry Education

To obtain a B.S. with a major in Chemistry and a concentration in Chemistry Education, a student must fulfill university, college, and departmental requirements.

## Chemistry, Bachelor of Science with a Concentration in Chemistry Education Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                             |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY         |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE |           |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Chemistry Major with a Concentration in Education - 97 Hours Required**

A Bachelor of Science Degree in chemistry with a concentration in education requires a minimum of 39 credits of course work in chemistry and a minimum of 39 credits in the College of Education, Health, and Human Sciences.

**Required Chemistry Coursework 34**

|                       |   |
|-----------------------|---|
| CHEM 1180 & CHEM 1184 | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^) |
| CHEM 1190 & CHEM 1194 | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)  |
| CHEM 2250             | ORGANIC CHEMISTRY I (^)                                       |
| CHEM 2260 & CHEM 2274 | ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY (^)     |
| CHEM 2400 & CHEM 2404 | QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB (^)       |
| CHEM 2500             | INTRODUCTION TO INORGANIC CHEMISTRY (^)                       |
| CHEM 3350 & CHEM 3354 | PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LABORATORY (^)  |
| CHEM 3360             | PHYSICAL CHEMISTRY II (^)                                     |
| CHEM/BIO 4650         | BIOCHEMISTRY I (^)  |
| CHEM/BIO 4654         | BIOCHEMISTRY I LABORATORY (^)                                 |
| CHEM 4900             | SENIOR ASSESSMENT IN CHEMISTRY                                |

**Additional credit hours of chemistry must come from the following 5**

|            |                                     |
|------------|-------------------------------------|
| Analytical |                                     |
| CHEM 3030  | ENVIRONMENTAL CHEMISTRY (^)         |
| CHEM 3424  | SPECTROMETRIC CHARACTERIZATIONS (^) |
| CHEM 4400  | INSTRUMENTAL ANALYSIS (^)           |

|           |                                      |
|-----------|--------------------------------------|
| CHEM 4404 | INSTRUMENTAL ANALYSIS LABORATORY (^) |
|-----------|--------------------------------------|

**Biochemistry**

|               |   |
|---------------|---|
| CHEM/BIO 4660 | BIOCHEMISTRY II (^ with the following lab)    |
| CHEM/BIO 4664 | BIOCHEMISTRY II LABORATORY (^)                |
| CHEM 4670     | PROTEIN PURIFICATION AND CHARACTERIZATION (^) |

**Chemistry Education**

|           |                               |
|-----------|-------------------------------|
| CHEM 3720 | CHEMISTRY TEACHING STRATEGIES |
|-----------|-------------------------------|

**Inorganic**

|           |                                     |
|-----------|-------------------------------------|
| CHEM 3514 | INORGANIC PREPARATIONS (^)          |
| CHEM 4500 | ADVANCED INORGANIC CHEMISTRY (^)    |
| CHEM 4510 | SOLID STATE INORGANIC CHEMISTRY (^) |
| CHEM 4540 | GEOCHEMISTRY (^)                    |

**Medicinal**

|           |                                       |
|-----------|---------------------------------------|
| CHEM 3710 | ESSENTIALS OF MEDICINAL CHEMISTRY (^) |
|-----------|---------------------------------------|

**Nuclear**

|           |                       |
|-----------|-----------------------|
| CHEM 4320 | NUCLEAR CHEMISTRY (^) |
|-----------|-----------------------|

**Organic**

|           |   |
|-----------|---|
| CHEM 3210 | INTRODUCTION TO MOLECULAR MODELING (^)                  |
| CHEM 4230 | ADVANCED ORGANIC CHEMISTRY - SYNTHESIS (^)              |
| CHEM 4240 | ADVANCED ORGANIC CHEMISTRY - MECHANISM (^)              |
| CHEM 4250 | ADVANCED ORGANIC CHEMISTRY: MECHANISMS AND MODELING (^) |

**Physical**

|           |                                      |
|-----------|--------------------------------------|
| CHEM 3364 | PHYSICAL CHEMISTRY II LABORATORY (^) |
|-----------|--------------------------------------|

**Polymer**

|           |                       |
|-----------|-----------------------|
| CHEM 4310 | POLYMER CHEMISTRY (^) |
|-----------|-----------------------|

**Research**

|           |                        |
|-----------|------------------------|
| CHEM 4950 | CHEMISTRY PROJECTS (^) |
| CHEM 4960 | CHEMISTRY PROBLEMS (^) |

**Internship**

|           |                          |
|-----------|--------------------------|
| CHEM 4810 | CHEMISTRY INTERNSHIP (^) |
|-----------|--------------------------|

**Special Topics**

|           |                                 |
|-----------|---------------------------------|
| CHEM 4930 | SPECIAL TOPICS IN CHEMISTRY (^) |
|-----------|---------------------------------|

**Select all of the following Educator Preparation Program Requirements 39**

|             |  |
|-------------|--|
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 2380    | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| TED 3550    | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690    | LITERACY AND LEARNING (^)  |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600    | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |



To graduate certified to teach high school chemistry, a biology and geology course are required. BIOL 1450 is required and CHEM 4540/GEOL 1104 are recommended.

#### Other Required Coursework **9**

MATH 1950 CALCULUS I (^)

MATH 1960 CALCULUS II (^)

#### Select one of the following sequences **10**

##### Sequence I

PHYS 2110 & PHYS 1154 GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (\*\* ^)

PHYS 2120 & PHYS 1164 GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II (^)

##### Sequence II

PHYS 1110 & PHYS 1154 PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (\*\* ^)

PHYS 1120 & PHYS 1164 PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II (^)

To graduate with an ACS certified degree, see your chemistry advisor for proper course selection.

#### College Breadth

College of Arts and Sciences' college breadth requirement satisfied by this major

#### BS Cognate Requirement **0**

See major.

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Chemistry, Bachelor of Science with a Concentration in Chemistry Education Four-year Plan

#### Freshman

##### Fall **Credits 4**

CHEM 1180 & CHEM 1184 GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY

ENGL 1150 ENGLISH COMPOSITION I **3**

MATH 1950 CALCULUS I **5**

CMST 1110 PUBLIC SPEAKING FUNDS **3**  
or CMST 2120 or ARGUMENTATION AND DEBATE

Attend Durango Days; other campus events.

Set up a Handshake account and take the Pathway U career assessment.

Attend the Student Involvement & Volunteer Fair to explore student organizations.

Make advising appointment for spring: Sept-Oct.

Work with your advisor to develop your Pathway in Stellic.

**Credits 15**

##### Spring

CHEM 1190 & CHEM 1194 GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY **4**

MATH 1960 CALCULUS II **4**

TED 2100 EDUCATIONAL FOUNDATIONS **3**

TED 2200 or TED 2060 HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS or EQUITY, LANGUAGE, AND CULTURAL LITERACY **3**

Attend campus events such as major exploration week to get an idea of interests and career paths.

Schedule a resume review with UNO Career Services.

Visit faculty office hours and ask about undergraduate research opportunities.

Make advising appointment for summer and fall: February – March.

**Credits 14**

#### Summer

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY **3**

PHYS 2110 or PHYS 1110 GENERAL PHYSICS I - CALCULUS LEVEL or PHYSICS FOR LIFE SCIENCE I **4**

PHYS 1154 GENERAL PHYSICS LABORATORY I **1**

**Credits 8**

#### Sophomore

##### Fall

CHEM 2250 ORGANIC CHEMISTRY I **3**

CHEM 2400 & CHEM 2404 QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB **4**

General Education Course or Elective **3**

General Education Course or Elective **3**

Attend the Career & Internship Fair to start networking with employers.

Look for volunteer, research, or part-time work to gain experience.

Join a student organization or club related to your field or interests.

Make advising appointment for spring: Sept. - Oct.

**Credits 13**

##### Spring

CHEM 2260 & CHEM 2274 ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY **5**

TED 2380 DEVELOPMENT AND LEARNING IN ADOLESCENCE **3**

TED 2400 PLANNING FOR EFFECTIVE TEACHING **6**

General Education Course or Elective **3**

Attend a career fair for informational and networking purposes.

Update your resume and LinkedIn profile with new experiences.

Investigate and apply for summer internships, research, or study abroad programs.

Make advising appointment for summer and fall: February – March.

**Credits 17**

#### Summer

PHYS 2120 or PHYS 1120 GENERAL PHYSICS II-CALCULUS LEVEL (\*) or PHYSICS FOR LIFE SCIENCE II **4**

PHYS 1164 GENERAL PHYSICS LABORATORY II (\*) **1**

General Education Course or Elective **3**

**Credits 8**

**Junior****Fall**

|   |  |   |
|---|--|---|
| BIOL 1450   | BIOLOGY I  | 5 |
| CHEM 3350<br>& CHEM 3354  | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY | 4 |
| CHEM 4650<br>& CHEM 4654  | BIOCHEMISTRY I<br>and BIOCHEMISTRY I LABORATORY                | 4 |
| General Education Course or Elective  |  | 3 |
| Apply for a paid internship or research assistantship.<br>Attend a mock interview workshop or use online interview<br>tools with Career Services. |  |   |
| Start researching and visiting graduate programs or<br>professional schools.  |  |   |
| Visit Career Center, continue updating resume.  |  |   |
| Make advising appointment for spring: Sept-Oct.   |  |   |

**Credits** **16**

**Spring**

|  |  |     |
|--|--|-----|
| CHEM 2500  | INTRODUCTION TO INORGANIC<br>CHEMISTRY | 3   |
| CHEM 3360  | PHYSICAL CHEMISTRY II                  | 3   |
| TED 3550   | SECONDARY CLASSROOM<br>MANAGEMENT      | 3   |
| TED 3690   | LITERACY AND LEARNING                  | 3   |
| Advanced Chemistry Elective(s) towards the requisite additional<br>5 credit hours  |  | 1-4 |
| Request letters of recommendation from faculty for jobs or<br>grad school.   |  |     |
| Attend the All-Majors Career Fair with a plan to network.<br>Meet with your advisor or submit for a graduation check-in to<br>review remaining degree requirements |  |     |
| Make advising appointment for summer and fall: February –<br>March.  |  |     |

**Credits** **13-16**

**Senior****Fall**

|  |  |     |
|--|--|-----|
| GEOL 1170  | INTRODUCTION TO PHYSICAL GEOLOGY           | 4   |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE<br>PRACTICES | 3   |
| TED 4000   | SPECIAL METHODS IN THE CONTENT<br>AREA     | 3   |
| Advanced Chemistry Elective  |  | 1-3 |
| General Education Course or Elective   |  | 3   |
| Check in with Career Center for networking tips.   |  |     |
| Finalize graduate school applications or job search strategy.<br>Attend a career fair and start applying for full-time jobs. |  |     |
| Prepare for interviews and salary negotiations with Career<br>Services.  |  |     |
| Make advising appointment for spring: Sept. - Oct.   |  |     |

**Credits** **14-16**

**Spring**

|  |   |    |
|--|---|----|
| CHEM 4900  | SENIOR ASSESSMENT IN CHEMISTRY                                  | 0  |
| TED 4600   | CLINICAL PRACTICE AND SEMINAR:<br>ELEMENTARY OR SECONDARY LEVEL | 12 |
| Complete your final advising check before graduation.                        |   |    |
| Polish your resume, cover letters, and LinkedIn profile.                     |   |    |
| Stay connected by joining alumni networks and professional<br>organizations. |   |    |

Apply for graduation via MavLink.

**Credits** **12**

**Total Credits** **130-135**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Chemistry, Bachelor of Science with a Concentration in Medicinal Chemistry

To obtain a B.S. with a major in Chemistry and a concentration in Medicinal Chemistry, a student must fulfill university, college, and departmental requirements.

## Chemistry, Bachelor of Science with a Concentration in Medicinal Chemistry Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |  |           |
| Minimum of "C-" required                                  |  |           |
| <b>Fundamental Skills</b>                                 |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I  |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY  |           |
| <b>Oral Communication – 3 hrs.</b>                        |  |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |  |           |
| MATH 1120<br>or MATH 1130                                 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY |           |

|              |   |
|--------------|---|
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                        |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Chemistry Major with a Concentration in Medicinal Chemistry - 70-71 Hours Required****Required Chemistry Coursework 34**

|                          |   |
|--------------------------|---|
| CHEM 1180<br>& CHEM 1184 | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY (** ^) |
| CHEM 1190<br>& CHEM 1194 | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY (^)  |
| CHEM 2250                | ORGANIC CHEMISTRY I (^)   |
| CHEM 2260<br>& CHEM 2274 | ORGANIC CHEMISTRY II<br>and ORGANIC CHEMISTRY<br>LABORATORY (^)     |
| CHEM 2400<br>& CHEM 2404 | QUANTITATIVE ANALYSIS<br>and QUANTITATIVE ANALYSIS LAB (^)          |
| CHEM 2500                | INTRODUCTION TO INORGANIC<br>CHEMISTRY (^)                          |
| CHEM 3350<br>& CHEM 3354 | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY (^)  |
| CHEM 3710                | ESSENTIALS OF MEDICINAL CHEMISTRY<br>(^)                            |
| CHEM/BIOI 4650           | BIOCHEMISTRY I (^ with the following<br>lab)                        |
| CHEM/BIOI 4654           | BIOCHEMISTRY I LABORATORY (^)                                       |
| CHEM 4900                | SENIOR ASSESSMENT IN CHEMISTRY                                      |

**Additional Lecture**

Select one of the following: 3-4

|                |   |
|----------------|---|
| CHEM 3210      | INTRODUCTION TO MOLECULAR<br>MODELING (^)                                     |
| CHEM 4230      | ADVANCED ORGANIC CHEMISTRY -<br>SYNTHESIS (^)                                 |
| CHEM 4240      | ADVANCED ORGANIC CHEMISTRY -<br>MECHANISM (^)                                 |
| CHEM 4250      | ADVANCED ORGANIC CHEMISTRY:<br>MECHANISMS AND MODELING (^)                    |
| CHEM/BIOI 4660 | BIOCHEMISTRY II (^ Must take<br>CHEM 4664 as the required additional<br>lab.) |

**Additional Lab**

Select one of the following: 1

|                |  |
|----------------|--|
| CHEM 3424      | SPECTROMETRIC CHARACTERIZATIONS<br>(^)   |
| CHEM/BIOI 4664 | BIOCHEMISTRY II LABORATORY (Must<br>take CHEM 4660 for required additional<br>lecture) |
| CHEM 4950      | CHEMISTRY PROJECTS   |

**Required Biology Courses 9**

|           |                |
|-----------|----------------|
| BIOL 1450 | BIOLOGY I (**) |
| BIOL 2140 | GENETICS (^)   |

**ADVANCED COURSEWORK: Select 4 additional credits from the following options in chemistry and biology: 4**

|                   |   |
|-------------------|---|
| <b>Analytical</b> |   |
| CHEM 3030         | ENVIRONMENTAL CHEMISTRY (^)             |
| CHEM 3424         | SPECTROMETRIC CHARACTERIZATIONS<br>(^)  |
| CHEM 4400         | INSTRUMENTAL ANALYSIS (^)               |
| CHEM 4404         | INSTRUMENTAL ANALYSIS LABORATORY<br>(^) |

**Biochemistry**

|                |  |
|----------------|--|
| CHEM/BIOI 4660 | BIOCHEMISTRY II (^ with the following<br>lab)    |
| CHEM/BIOI 4664 | BIOCHEMISTRY II LABORATORY (^)                   |
| CHEM 4670      | PROTEIN PURIFICATION AND<br>CHARACTERIZATION (^) |

**Chemistry Education**

|           |                               |
|-----------|-------------------------------|
| CHEM 3720 | CHEMISTRY TEACHING STRATEGIES |
|-----------|-------------------------------|

**Inorganic**

|           |                                     |
|-----------|-------------------------------------|
| CHEM 3514 | INORGANIC PREPARATIONS (^)          |
| CHEM 4500 | ADVANCED INORGANIC CHEMISTRY (^)    |
| CHEM 4510 | SOLID STATE INORGANIC CHEMISTRY (^) |
| CHEM 4540 | GEOCHEMISTRY (^)                    |

**Nuclear**

|           |                       |
|-----------|-----------------------|
| CHEM 4320 | NUCLEAR CHEMISTRY (^) |
|-----------|-----------------------|

**Organic**

|           |  |
|-----------|--|
| CHEM 3210 | INTRODUCTION TO MOLECULAR<br>MODELING (^)                  |
| CHEM 4230 | ADVANCED ORGANIC CHEMISTRY -<br>SYNTHESIS (^)              |
| CHEM 4240 | ADVANCED ORGANIC CHEMISTRY -<br>MECHANISM (^)              |
| CHEM 4250 | ADVANCED ORGANIC CHEMISTRY:<br>MECHANISMS AND MODELING (^) |

**Physical Chemistry**

|           |   |
|-----------|---|
| CHEM 3360 | PHYSICAL CHEMISTRY II (^)               |
| CHEM 3364 | PHYSICAL CHEMISTRY II LABORATORY<br>(^) |

**Polymer**

|           |                       |
|-----------|-----------------------|
| CHEM 4310 | POLYMER CHEMISTRY (^) |
|-----------|-----------------------|

**Research**

|           |                        |
|-----------|------------------------|
| CHEM 4950 | CHEMISTRY PROJECTS (^) |
| CHEM 4960 | CHEMISTRY PROBLEMS (^) |

**Internship**

|           |                          |
|-----------|--------------------------|
| CHEM 4810 | CHEMISTRY INTERNSHIP (^) |
|-----------|--------------------------|

**Special Topics**

|           |                                 |
|-----------|---------------------------------|
| CHEM 4930 | SPECIAL TOPICS IN CHEMISTRY (^) |
|-----------|---------------------------------|

**Biology**

|           |                               |
|-----------|-------------------------------|
| BIOL 3020 | MOLECULAR BIOLOGY OF THE CELL |
|-----------|-------------------------------|

|           |  |
|-----------|--|
| BIOL 3240 | INTRODUCTION TO IMMUNOLOGY                   |
| BIOL 3830 | BIOLOGY OF PATHOGENIC MICROORGANISMS         |
| BIOL 4130 | MOLECULAR GENETICS                           |
| BIOL 4140 | CELLULAR BIOLOGY                             |
| BIOL 4450 | VIROLOGY (with or without the following lab) |
| BIOL 4454 | VIROLOGY LABORATORY                          |
| BIOL 4640 | MOLECULAR MICROBIOLOGY                       |
| BIOL 4730 | VERTEBRATE ENDOCRINOLOGY                     |
| BIOL 4850 | DEVELOPMENTAL BIOLOGY                        |
| BIOL 4860 | COMPARATIVE GENOMICS                         |

**Other Required Coursework\*** **9**

|           |                |
|-----------|----------------|
| MATH 1950 | CALCULUS I (^) |
| MATH 1960 | CALCULUS II    |

\*MATH 1970, Calculus III, is recommended but not required

**Select one of the following sequences** **10**

|                       |  |
|-----------------------|--|
| Sequence A            |  |
| PHYS 2110 & PHYS 1154 | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (** ^) |
| PHYS 2120 & PHYS 1164 | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II (^)    |

|                       |  |
|-----------------------|--|
| Sequence B            |  |
| PHYS 1110 & PHYS 1154 | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^) |
| PHYS 1120 & PHYS 1164 | PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II (^)  |

To graduate with an ACS certified degree, see your chemistry advisor for proper course selection.

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |
| HIST 1000 and HIST 1010 - 6 hours                                    |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Requirement** **0**

See major.

## ELECTIVES

Elective hours as required to reach a total of 120 hours

# Chemistry, Bachelor of Science with a Concentration in Medicinal Chemistry Four-year Plan

## Freshman

| Fall                   |  | Credits |
|------------------------|--|---------|
| CHEM 1180 & CHEM 1184  | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY ( ) | 4       |
| CMST 1110 or CMST 2120 | PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE          | 3       |
| ENGL 1150              | ENGLISH COMPOSITION I                                      | 3       |
| MATH 1950              | CALCULUS I   | 5       |

Attend Durango Days; other campus events.

Set up a Handshake account and take the Pathway U career assessment.

Attend the Student Involvement & Volunteer Fair to explore student organizations.

Make advising appointment for spring: Sept-Oct.

Work with your advisor to develop your Pathway in Stellic.

**Credits** **15**

## Spring

|                                      |  |   |
|--------------------------------------|--|---|
| CHEM 1190 & CHEM 1194                | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY | 4 |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                | 3 |
| MATH 1960                            | CALCULUS II  | 4 |
| General Education Course or Elective |  | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths.

Schedule a resume review with UNO Career Services.

Visit faculty office hours and ask about undergraduate research opportunities.

Make advising appointment for summer and fall: February – March.

**Credits** **14**

## Summer

|                        |  |   |
|------------------------|--|---|
| PHYS 2110 or PHYS 1110 | GENERAL PHYSICS I - CALCULUS LEVEL or PHYSICS FOR LIFE SCIENCE I | 4 |
| PHYS 1154              | GENERAL PHYSICS LABORATORY I                                     | 1 |

**Credits** **5**

## Sophomore

| Fall                                 |   | Credits |
|--------------------------------------|---|---------|
| CHEM 2250                            | ORGANIC CHEMISTRY I                                 | 3       |
| CHEM 2400 & CHEM 2404                | QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB | 4       |
| General Education Course or Elective |   | 3       |
| General Education Course or Elective |   | 3       |
| General Education Course or Elective |   | 2       |

Attend the Career & Internship Fair to start networking with employers.

Look for volunteer, research, or part-time work to gain experience.

Join a student organization or club related to your field or interests.

|   |   |              |
|---|---|--------------|
| Make advising appointment for spring: Sept. - Oct.  |   |              |
|   | <b>Credits</b>  | <b>15</b>    |
| <b>Spring</b>   |   |              |
| CHEM 2260<br>& CHEM 2274  | ORGANIC CHEMISTRY II<br>and ORGANIC CHEMISTRY<br>LABORATORY         | 5            |
| CHEM 2500   | INTRODUCTION TO INORGANIC<br>CHEMISTRY                              | 3            |
| General Education Course or Elective  |   | 3            |
| General Education Course or Elective  |   | 3            |
| Attend a career fair for informational and networking purposes.                                     |   |              |
| Update your resume and LinkedIn profile with new experiences.                                       |   |              |
| Investigate and apply for summer internships, research, or study abroad programs.                   |   |              |
| Make advising appointment for summer and fall: February – March.                                    |   |              |
|   | <b>Credits</b>  | <b>14</b>    |
| <b>Summer</b>   |   |              |
| PHYS 2120<br>or PHYS 1120   | GENERAL PHYSICS II-CALCULUS LEVEL<br>or PHYSICS FOR LIFE SCIENCE II | 4            |
| PHYS 1164   | GENERAL PHYSICS LABORATORY II                                       | 1            |
|   | <b>Credits</b>  | <b>5</b>     |
| <b>Junior</b>   |   |              |
| <b>Fall</b>   |   |              |
| CHEM 3350<br>& CHEM 3354  | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY      | 4            |
| OR  |   |              |
| CHEM 4650<br>& CHEM 4654  | BIOCHEMISTRY I<br>and BIOCHEMISTRY I LABORATORY                     |              |
| BIOL 1450   | BIOLOGY I   | 5            |
| General Education Course or Elective  |   | 3            |
| General Education Course or Elective  |   | 3            |
| Apply for a paid internship or research assistantship.  |   |              |
| Attend a mock interview workshop or use online interview tools with Career Services.                |   |              |
| Start researching and visiting graduate programs or professional schools.                           |   |              |
| Visit Career Center, continue updating resume.  |   |              |
| Make advising appointment for spring: Sept-Oct.   |   |              |
|   | <b>Credits</b>  | <b>15</b>    |
| <b>Spring</b>   |   |              |
| CHEM 3710   | ESSENTIALS OF MEDICINAL CHEMISTRY                                   | 3            |
| BIOL 2140   | GENETICS  | 4            |
| Additional Chemistry Lecture  |   | 3-4          |
| Additional Chemistry Lab  |   | 1            |
| General Education Course or Elective  |   | 2-3          |
| Request letters of recommendation from faculty for jobs or grad school.                             |   |              |
| Attend the All-Majors Career Fair with a plan to network.   |   |              |
| Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. |   |              |
| Make advising appointment for summer and fall: February – March.                                    |   |              |
|   | <b>Credits</b>  | <b>13-15</b> |

|   |  |                |
|---|--|----------------|
| <b>Senior</b>   |  |                |
| <b>Fall</b>   |  |                |
| CHEM 4650<br>& CHEM 4654  | BIOCHEMISTRY I<br>and BIOCHEMISTRY I LABORATORY                | 4              |
| OR  |  |                |
| CHEM 3350<br>& CHEM 3354  | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY |                |
| General Education Course or Elective                                      |  | 3              |
| General Education Course or Elective                                      |  | 3              |
| General Education Course or Elective                                      |  | 2              |
| Check in with Career Center for networking tips.                          |  |                |
| Finalize graduate school applications or job search strategy.             |  |                |
| Attend a career fair and start applying for full-time jobs.               |  |                |
| Prepare for interviews and salary negotiations with Career Services.      |  |                |
| Make advising appointment for spring: Sept. - Oct.                        |  |                |
|   | <b>Credits</b>   | <b>12</b>      |
| <b>Spring</b>   |  |                |
| CHEM 4900   | SENIOR ASSESSMENT IN CHEMISTRY                                 | 0              |
| Advanced Course in Biology or Chemistry (see list of approved options)    |  | 4              |
| General Education Course or Elective                                      |  | 3              |
| General Education Course or Elective                                      |  | 3              |
| General Education Course or Elective                                      |  | 2              |
| Complete your final advising check before graduation.                     |  |                |
| Polish your resume, cover letters, and LinkedIn profile.                  |  |                |
| Stay connected by joining alumni networks and professional organizations. |  |                |
| Apply for graduation via MavLink.   |  |                |
|   | <b>Credits</b>   | <b>12</b>      |
|   | <b>Total Credits</b>   | <b>120-122</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper-level credits throughout the degree with at least 18 upper-level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation

plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Chemistry Minor

### Chemistry Minor Requirements

A minor in chemistry requires 18 credit hours of approved chemistry courses.

All chemistry courses counted toward a minor must be taken from classes approved for chemistry majors. In addition to General Chemistry I and II, students must take 10 additional hours of chemistry courses from the list below, with at least 7 hours at the 2000 level or higher taken in residence at UNO.

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>REQUIRED COURSES:</b>  |  | <b>8</b>  |
| CHEM 1180   | GENERAL CHEMISTRY I (*)  |           |
| CHEM 1184   | GENERAL CHEMISTRY I LABORATORY (*)   |           |
| CHEM 1190   | GENERAL CHEMISTRY II (*)   |           |
| CHEM 1194   | GENERAL CHEMISTRY II LABORATORY (*)  |           |
| <b>Select 10 additional hours of chemistry courses from the below options, with at least 7 hours taken in residence at UNO:</b> |  | <b>10</b> |
| <b>ANALYTICAL</b>   |  |           |
| CHEM 2400   | QUANTITATIVE ANALYSIS (3 hrs)  |           |
| CHEM 2404   | QUANTITATIVE ANALYSIS LAB (1 hr)   |           |
| CHEM 3030   | ENVIRONMENTAL CHEMISTRY (3 hrs)  |           |
| CHEM 3424   | SPECTROMETRIC CHARACTERIZATIONS (1 hr)   |           |
| CHEM 4400 & CHEM 4404   | INSTRUMENTAL ANALYSIS and INSTRUMENTAL ANALYSIS LABORATORY (4 hrs including lab) |           |
| <b>BIOCHEMISTRY</b>   |  |           |
| CHEM 4610   | BIOCHEMISTRY OF METABOLISM (4 hrs)   |           |
| CHEM/BIOLOG 4650  | BIOCHEMISTRY I (3 hrs)   |           |
| CHEM/BIOLOG 4654  | BIOCHEMISTRY I LABORATORY (1 hr)   |           |
| CHEM/BIOLOG 4660  | BIOCHEMISTRY II (3 hrs)  |           |
| CHEM/BIOLOG 4664  | BIOCHEMISTRY II LABORATORY (1 hr)  |           |
| CHEM 4670   | PROTEIN PURIFICATION AND CHARACTERIZATION (2 hrs)                                |           |
| <b>CHEMISTRY EDUCATION</b>  |  |           |
| CHEM 3720   | CHEMISTRY TEACHING STRATEGIES (3 hrs)  |           |
| <b>INORGANIC</b>  |  |           |
| CHEM 2500   | INTRODUCTION TO INORGANIC CHEMISTRY (3 hrs)                                      |           |
| CHEM 3514   | INORGANIC PREPARATIONS (1 hr)  |           |
| CHEM 4500   | ADVANCED INORGANIC CHEMISTRY (3 hrs)   |           |
| CHEM 4510   | SOLID STATE INORGANIC CHEMISTRY (3 hrs)  |           |
| CHEM 4540   | GEOCHEMISTRY (3 hrs)   |           |
| <b>MEDICINAL</b>  |  |           |
| CHEM 3710   | ESSENTIALS OF MEDICINAL CHEMISTRY (3 hrs)  |           |
| <b>NUCLEAR</b>  |  |           |
| CHEM 4320   | NUCLEAR CHEMISTRY  |           |
| <b>ORGANIC</b>  |  |           |
| CHEM 2250   | ORGANIC CHEMISTRY I (3 hrs)  |           |

|                           |   |
|---------------------------|---|
| CHEM 2260                 | ORGANIC CHEMISTRY II (3 hrs)                                |
| CHEM 2274                 | ORGANIC CHEMISTRY LABORATORY (2 hrs)                        |
| CHEM 3210                 | INTRODUCTION TO MOLECULAR MODELING (3 hrs)                  |
| CHEM 4230                 | ADVANCED ORGANIC CHEMISTRY - SYNTHESIS (3 hrs)              |
| CHEM 4240                 | ADVANCED ORGANIC CHEMISTRY - MECHANISM (3 hrs)              |
| CHEM 4250                 | ADVANCED ORGANIC CHEMISTRY: MECHANISMS AND MODELING (4 hrs) |
| <b>PHYSICAL CHEMISTRY</b> |   |
| CHEM 3350                 | PHYSICAL CHEMISTRY I (3 hrs)                                |
| CHEM 3354                 | PHYSICAL CHEMISTRY I LABORATORY (1 hr)                      |
| CHEM 3360                 | PHYSICAL CHEMISTRY II (3 hrs)                               |
| CHEM 3364                 | PHYSICAL CHEMISTRY II LABORATORY (1 hr)                     |
| <b>POLYMER</b>            |   |
| CHEM 4310                 | POLYMER CHEMISTRY (3 hrs)                                   |
| <b>RESEARCH</b>           |   |
| CHEM 4950                 | CHEMISTRY PROJECTS (1 hr)                                   |
| CHEM 4960                 | CHEMISTRY PROBLEMS (1-3 hrs)                                |
| <b>INTERNSHIP</b>         |   |
| CHEM 4810                 | CHEMISTRY INTERNSHIP (1-6 hrs)                              |
| <b>SPECIAL TOPICS</b>     |   |
| CHEM 4930                 | SPECIAL TOPICS IN CHEMISTRY (1-3 hrs)                       |

## Economics

Economists are problem solvers. The profession has produced methods to better match organ recipients with donors (saving countless lives), improved the financial savings rate for U.S. veterans, and reduced crime through small incentives.

The field is a method of studying humans using models and data; it is not a series of facts about the economy you memorize. While economics includes the study of what people buy and how products are produced, the field is far more expansive. Economics can be applied to numerous fields including art, education, law, medicine, psychology, sociology, and urban studies. Further, economics is the foundational science on which all business fields are built.

*Economics is a systematic and scientific way of looking at human choices.*

Economics has been the steppingstone to a future career for many of the nation's most ambitious people. In addition to numerous CEOs and U.S. Presidents, economics is the most popular degree at six out of the eight Ivy League schools (Business Insider, "The three most popular majors at every Ivy League school").

Career opportunities are vast when you hold an economics degree. Warren Buffett (Berkshire Hathaway), Sheryl Sandberg (Meta/Facebook), Sandra Day O'Connor (former Associate Justice of the U.S. Supreme Court), and Nate Silver (FiveThirtyEight) all hold economics degrees. While their careers are very different, they all use the methods and data analysis tools taught in economics to further their success.

Economists are employed by private businesses, public sectors, and non-profit organizations and are among the highest paid disciplines. In businesses, economists' duties include various forms of analysis to help make business decisions. Common job titles include Data Analyst, Data Scientist, Market Research Analyst, Financial Analyst, Technical Analyst, and Research Associate.



Here at UNO, we offer three different undergraduate programs in economics: A STEM-designated Bachelor of Science in Economics (<https://catalog.unomaha.edu/undergraduate/college-arts-sciences/economics/economics-bs/>), a Bachelor of Arts in Economics (<https://catalog.unomaha.edu/undergraduate/college-arts-sciences/economics/economics-ba/>), and a Bachelor of Science in Business Administration - Economics Concentration (<https://catalog.unomaha.edu/undergraduate/college-business-administration/bs-business-administration/economics/>). These programs contain nearly the same economics courses: which degree makes the most sense for you depends on your other interests.

In addition, economics is superb preparation for graduate work in areas such as business, law, political science, international relations, gerontology, and public administration. Economics also is an excellent dual **major** or **minor** for other areas of study.

## Other Information

All coursework taken for the Economics major or minor must be completed with a grade of “C” or better.

## Option for Degree Completion

The Department of Economics has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- The program is available for undergraduate students pursuing the Bachelor of Science in Business Administration (with a concentration in Economics), Bachelor of Science in Economics, or Bachelor of Arts in Economics, desiring to pursue a Master of Science in Economics.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.50.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

Students in the Fast Track program must only enroll in dual-level ECON courses (ECON 8xx6) as their graduate coursework prior to admittance to the graduate program.

## Student Groups

### Economics Club

The main purpose of the UNO Economics Club (Econ Club, for short) is to increase awareness and knowledge of economic issues among Econ Club members and the overall UNO community. The organization also provides a

venue for student-members to examine issues related to academic success, career success, and related matters. The organization shall work towards increasing the membership's engagement with the Omaha community.

## Contact

Arts and Sciences Advising Center, 220 ASH  
402.554.2458

**Website** (<http://www.unomaha.edu/college-of-arts-and-sciences/economics/>)

## Degrees Offered

- Economics, Bachelor of Arts (p. 106)
- Economics, Bachelor of Science (p. 109)

## Minors Offered

- Economics Minor (p. 111)

By nature, Liberal Arts majors make great employees in any field because of their ability to communicate effectively, think critically and solve complex problems. These timeless skills make them attractive to employers in all walks of society. Specifically though, Economics majors often pursue careers as a:

- Commodities broker
- Credit analyst
- Data analyst
- Data scientist
- Economic forecaster
- Financial analyst
- Insurance underwriter
- Management consultant
- Market research analyst
- Public relations/media organizer
- Securities broker

## Economics, Bachelor of Arts

To obtain a BA with a major in Economics in the College of Arts & Sciences, a student must fulfill university, college, and departmental requirements.

## Economics, Bachelor of Arts Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>    |   |           |
| Minimum of “C-” required for general education requirements. |   |           |
| <b>Fundamental Skills</b>                                    |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                      |   |           |
| ENGL 1150  | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                           |   |           |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120   | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                        |   |           |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130   | QUANTITATIVE LITERACY                                   |           |

|              |   |
|--------------|---|
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                        |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 30 Hours Required**

Minimum "C" grade required for all major courses.

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Required Coursework 15**

|           |  |
|-----------|--|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO)<br>(** ^)  |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)<br>(** ^)  |
| ECON 3200 | ECONOMIC THEORY: MICRO (^)                 |
| ECON 3220 | ECONOMIC THEORY: MACRO                     |
| ECON 4990 | SENIOR ASSESSMENT (^)                      |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS (^)<br>1 |

1 Equivalent courses include: SOC 2130, PSYC 3130, STAT 3000, STAT 1530, CIST 2500, STAT 3800, CRCJ/PA/SOWK 3000, and PSCI 3000.

**Select 15 hours of Economics at the 3000-4000 Level (at least six hours must be at the 4000-Level) 15**

While not required, students are encouraged to take Econometrics and either Math 1930 or Math 1370.

|              |  |
|--------------|--|
| ECON 3300    | INTRODUCTION TO ECONOMETRICS (^)                           |
| MATH 1930    | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| or MATH 1370 | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS        |

**Optional Focus Areas:**

Focus Areas are a purposeful collection of economics courses designed to ready students for a particular career. Focus Areas are optional, and do not appear on the transcript, but the department highly recommends students consider them when selecting their additional Economics credits. A Focus Area is completed when students successfully finish nine (9) credits from a given Focus Area.

**Modern Business:**

|           |   |
|-----------|---|
| ECON 3320 | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^) |
| ECON 4210 | INDUSTRIAL ORGANIZATION (^)                       |
| ECON 4240 | LABOR ECONOMICS (^)                               |
| ECON 4320 | NATURAL RESOURCE ECONOMICS (^)                    |
| ECON 4350 | BUSINESS INTELLIGENCE AND REPORTING (^)           |

|           |   |
|-----------|---|
| ECON 4510 | ECONOMIC INTERNSHIP (^)                         |
| ECON 4570 | ECONOMIC CONDITIONS ANALYSIS (^)                |
| ECON 4610 | INTERNATIONAL TRADE (^)                         |
| ECON 4660 | INTERNATIONAL ECONOMIC DEVELOPMENT (^)          |
| ECON 4850 | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (^) |

**International and Regional Policy:**

|           |   |
|-----------|---|
| ECON 3320 | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^) |
| ECON 3600 | INTRODUCTION TO INTERNATIONAL ECONOMICS (^)       |
| ECON 4320 | NATURAL RESOURCE ECONOMICS (^)                    |
| ECON 4350 | BUSINESS INTELLIGENCE AND REPORTING (^)           |
| ECON 4610 | INTERNATIONAL TRADE (^)                           |
| ECON 4660 | INTERNATIONAL ECONOMIC DEVELOPMENT (^)            |
| ECON 4850 | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (^)   |

**Analysis and Applied Skills:**

|           |   |
|-----------|---|
| ECON 3310 | SQL, DATABASES, AND DATA CLEANING FOR DATA SCIENTISTS (^) |
| ECON 4210 | INDUSTRIAL ORGANIZATION (^)                               |
| ECON 4300 | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS (^)   |
| ECON 4350 | BUSINESS INTELLIGENCE AND REPORTING (^)                   |
| ECON 4510 | ECONOMIC INTERNSHIP (^)                                   |
| ECON 4570 | ECONOMIC CONDITIONS ANALYSIS (^)                          |

**Development, Climate, and Sustainability:**

|           |   |
|-----------|---|
| ECON 3320 | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^) |
| ECON 3600 | INTRODUCTION TO INTERNATIONAL ECONOMICS (^)       |
| ECON 4320 | NATURAL RESOURCE ECONOMICS (^)                    |
| ECON 4660 | INTERNATIONAL ECONOMIC DEVELOPMENT (^)            |
| ECON 4850 | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (^)   |

**College Requirements****BA Language Requirement 16**

FREN, GERM, or SPAN, 1110\*\*, 1120, 2110, 2120

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab- 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Economics, Bachelor of Arts Four Year Plan

**Freshman**

| <b>Fall</b>   |                              | <b>Credits</b> |
|---|------------------------------|----------------|
| ENGL 1150   | ENGLISH COMPOSITION I        | 3              |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT | 4              |
| World Language 1110   |                              | 5              |
| Natural/Physical Science  |                              | 4              |
| Attend Durango Days; other campus events.   |                              |                |
| Set up a Handshake account and take the Pathway U career assessment.              |                              |                |
| Attend the Student Involvement & Volunteer Fair to explore student organizations. |                              |                |
| Make advising appointment for spring: Sept-Oct.                                   |                              |                |
| Work with your advisor to develop your Pathway in Stellic.                        |                              |                |
| <b>Credits</b>  |                              | <b>16</b>      |

**Spring**

|   |   |           |
|---|---|-----------|
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO)                                   | 3         |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (recommended) | 3         |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                         | 3         |
| World Language 1120   |   | 5         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. |   |           |
| Schedule a resume review with UNO Career Services.  |   |           |
| Visit faculty office hours and ask about undergraduate research opportunities.                    |   |           |
| Make advising appointment for summer and fall: February – March.                                  |   |           |
| <b>Credits</b>  |   | <b>14</b> |

**Sophomore**

| <b>Fall</b>   |   |           |
|---|---|-----------|
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO)   | 3         |
| CMST 1110   | PUBLIC SPEAKING FUNDS   | 3         |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (or other approved statistics course) | 3         |
| General Education Course or Elective                                    |   | 3         |
| World Language 2110   |   | 3         |
| Attend the Career & Internship Fair to start networking with employers. |   |           |
| Look for volunteer, research, or part-time work to gain experience.     |   |           |
| Join a student organization or club related to your field or interests. |   |           |
| Make advising appointment for spring: Sept. - Oct.                      |   |           |
| <b>Credits</b>  |   | <b>15</b> |

**Spring**

|   |                        |   |
|---|------------------------|---|
| ECON 3220   | ECONOMIC THEORY: MACRO | 3 |
| Upper Level Economics course (3000+)                            |                        | 3 |
| World Language 2120   |                        | 3 |
| General Education Course or Elective                            |                        | 3 |
| General Education Course or Elective                            |                        | 3 |
| Attend a career fair for informational and networking purposes. |                        |   |

Update your resume and LinkedIn profile with new experiences.

Investigate and apply for summer internships, research, or study abroad programs.

Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Junior**

| <b>Fall</b>  |                        |           |
|--|------------------------|-----------|
| ECON 3200  | ECONOMIC THEORY: MICRO | 3         |
| General Education Course or Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| Apply for a paid internship or research assistantship.                               |                        |           |
| Attend a mock interview workshop or use online interview tools with Career Services. |                        |           |
| Start researching and visiting graduate programs or professional schools.            |                        |           |
| Visit Career Center, continue updating resume.                                       |                        |           |
| Make advising appointment for spring: Sept-Oct.                                      |                        |           |
| <b>Credits</b>   |                        | <b>15</b> |

**Spring**

|   |                              |   |
|---|------------------------------|---|
| ECON 3300   | INTRODUCTION TO ECONOMETRICS | 3 |
| Upper Level Economics Course (3000+)  |                              | 3 |
| General Education Course or Elective  |                              | 3 |
| Elective  |                              | 3 |
| Elective  |                              | 3 |
| Request letters of recommendation from faculty for jobs or grad school.                             |                              |   |
| Attend the All-Majors Career Fair with a plan to network.   |                              |   |
| Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. |                              |   |
| Make advising appointment for summer and fall: February – March.                                    |                              |   |

**Credits** **15**

**Senior**

| <b>Fall</b>  |  |   |
|--|--|---|
| Upper Level Economics Course (3000+)                                 |  | 3 |
| Upper Level Economics Course (4000+)                                 |  | 3 |
| General Education Course or Elective                                 |  | 3 |
| General Education Course or Elective                                 |  | 3 |
| Elective   |  | 3 |
| Check in with Career Center for networking tips.                     |  |   |
| Finalize graduate school applications or job search strategy.        |  |   |
| Attend a career fair and start applying for full-time jobs.          |  |   |
| Prepare for interviews and salary negotiations with Career Services. |  |   |
| Make advising appointment for spring: Sept. - Oct.                   |  |   |

**Credits** **15**

**Spring**

|   |                   |   |
|---|-------------------|---|
| ECON 4990   | SENIOR ASSESSMENT | 0 |
| Upper Level Economics Course (4000+)                  |                   | 3 |
| Upper Level Economics Course (3000+)                  |                   | 3 |
| General Education Course or Elective                  |                   | 3 |
| Elective  |                   | 3 |
| Elective  |                   | 3 |
| Complete your final advising check before graduation. |                   |   |

Polish your resume, cover letters, and LinkedIn profile.

Stay connected by joining alumni networks and professional organizations.

Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Economics, Bachelor of Science

To obtain a BS with a major in Economics in the College of Arts & Sciences, a student must fulfill university, college, and departmental requirements.

## Economics, Bachelor of Science Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>    |   |           |
| Minimum of "C-" required for general education requirements. |   |           |
| <b>Fundamental Skills</b>                                    |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                      |   |           |
| ENGL 1150  | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                           |   |           |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120   | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                        |   |           |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |

|              |   |
|--------------|---|
| or MATH 1130 | QUANTITATIVE LITERACY                               |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                        |

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS - 36 Hours Required

Minimum "C" grade required for all major courses and B.S. Cognate

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Required Coursework **18**

|           |  |
|-----------|--|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO) (* ^)      |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) (* ^)      |
| ECON 3200 | ECONOMIC THEORY: MICRO (^)                 |
| ECON 3220 | ECONOMIC THEORY: MACRO                     |
| ECON 3300 | INTRODUCTION TO ECONOMETRICS (^)           |
| ECON 4990 | SENIOR ASSESSMENT (^)                      |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS (^)<br>1 |

1 Equivalent courses include: SOC 2130, PSYC 3130, STAT 3000, STAT 1530, CIST 2500, STAT 3800, CRCJ/PA/SOWK 3000, and PSCI 3000

#### Select 18 hours of Economics at the 3000-4000 Level (at least six hours must be at the 4000-Level) **18**

#### Optional Focus Areas:

Focus Areas are a purposeful collection of economics courses designed to ready students for a particular career. Focus Areas are optional, and do not appear on the transcript, but the department highly recommends students consider them when selecting their additional Economics credits. A Focus Area is completed when students successfully finish nine (9) credits from a given Focus Area.

#### Modern Business:

|           |   |
|-----------|---|
| ECON 3320 | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^) |
| ECON 4210 | INDUSTRIAL ORGANIZATION (^)                       |
| ECON 4240 | LABOR ECONOMICS (^)                               |
| ECON 4320 | NATURAL RESOURCE ECONOMICS (^)                    |
| ECON 4350 | BUSINESS INTELLIGENCE AND REPORTING (^)           |
| ECON 4510 | ECONOMIC INTERNSHIP (^)                           |
| ECON 4570 | ECONOMIC CONDITIONS ANALYSIS (^)                  |
| ECON 4610 | INTERNATIONAL TRADE (^)                           |

|           |   |
|-----------|---|
| ECON 4660 | INTERNATIONAL ECONOMIC DEVELOPMENT (^)          |
| ECON 4850 | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (^) |

**International and Regional Policy:**

|           |   |
|-----------|---|
| ECON 3320 | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^) |
| ECON 3600 | INTRODUCTION TO INTERNATIONAL ECONOMICS (^)       |
| ECON 4320 | NATURAL RESOURCE ECONOMICS (^)                    |
| ECON 4350 | BUSINESS INTELLIGENCE AND REPORTING (^)           |
| ECON 4610 | INTERNATIONAL TRADE (^)                           |
| ECON 4660 | INTERNATIONAL ECONOMIC DEVELOPMENT (^)            |
| ECON 4850 | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (^)   |

**Analysis and Applied Skills:**

|           |   |
|-----------|---|
| ECON 3310 | SQL, DATABASES, AND DATA CLEANING FOR DATA SCIENTISTS (^) |
| ECON 4210 | INDUSTRIAL ORGANIZATION (^)                               |
| ECON 4300 | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS (^)   |
| ECON 4350 | BUSINESS INTELLIGENCE AND REPORTING (^)                   |
| ECON 4510 | ECONOMIC INTERNSHIP (^)                                   |
| ECON 4570 | ECONOMIC CONDITIONS ANALYSIS (^)                          |

**Development, Climate, and Sustainability:**

|           |   |
|-----------|---|
| ECON 3320 | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^) |
| ECON 3600 | INTRODUCTION TO INTERNATIONAL ECONOMICS (^)       |
| ECON 4320 | NATURAL RESOURCE ECONOMICS (^)                    |
| ECON 4660 | INTERNATIONAL ECONOMIC DEVELOPMENT (^)            |
| ECON 4850 | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (^)   |

**College Requirements****Bachelor of Science Cognate Requirement 15****Choose from one of the following cognate Mathematics courses:**

|           |  |
|-----------|--|
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1950 | CALCULUS I (^)   |
| MATH 1370 | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |

**Remaining cognate requirements**

Other cognate courses may be drawn from the following fields: business administration, computer science, geography, history, international studies, mathematics, political science, public administration, sociology, statistics and urban studies. No more than 6 credits of cognate coursework may double-count within the general education requirements. Cognate courses from other fields must be approved by the Economics advisor.

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Economics, Bachelor of Science Four Year Plan

**Freshman**

| Fall  |                              | Credits |
|---|------------------------------|---------|
| ENGL 1150   | ENGLISH COMPOSITION I        | 3       |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT | 4       |
| CMST 1110   | PUBLIC SPEAKING FUNDS        | 3       |
| General Education Course or Elective  |                              | 3       |
| Attend Durango Days; other campus events.   |                              |         |
| Set up a Handshake account and take the Pathway U career assessment.              |                              |         |
| Attend the Student Involvement & Volunteer Fair to explore student organizations. |                              |         |
| Make advising appointment for spring: Sept-Oct.                                   |                              |         |
| Work with your advisor to develop your Pathway in Stellic.                        |                              |         |

**Credits 13**

**Spring**

|   |   |     |
|---|---|-----|
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO)   | 3   |
| Cognate Required Math - Choose one:   |   | 3-5 |
| MATH 1370<br>or MATH 1930<br>or MATH 1950   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS<br>or CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES<br>or CALCULUS I |     |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   | 3   |
| General Education Course or Elective  |   | 3   |
| General Education Course or Elective  |   | 3   |
| Attend campus events such as major exploration week to get an idea of interests and career paths. |   |     |
| Schedule a resume review with UNO Career Services.  |   |     |
| Visit faculty office hours and ask about undergraduate research opportunities.                    |   |     |
| Make advising appointment for summer and fall: February – March.                                  |   |     |

**Credits 15-17**

**Sophomore**

| Fall                                 |   | Credits |
|--------------------------------------|---|---------|
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO)   | 3       |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS (or other approved statistics course) | 3       |
| General Education Course or Elective |   | 3       |
| General Education Course or Elective |   | 3       |
| Elective                             |   | 1       |
| Cognate Course #2                    |   | 3       |



|   |   |           |
|---|---|-----------|
| Attend the Career & Internship Fair to start networking with employers.                             |   |           |
| Look for volunteer, research, or part-time work to gain experience.                                 |   |           |
| Join a student organization or club related to your field or interests.                             |   |           |
| Make advising appointment for spring: Sept. - Oct.  |   |           |
| <b>Credits</b>  |   | <b>16</b> |
| <b>Spring</b>   |   |           |
| ECON 3220 ECONOMIC THEORY: MACRO  | 3 |           |
| Upper Level Economics course (3000+)  | 3 |           |
| Cognate Course #3   | 3 |           |
| General Education Course or Elective  | 3 |           |
| General Education Course or Elective  | 3 |           |
| Attend a career fair for informational and networking purposes.                                     |   |           |
| Update your resume and LinkedIn profile with new experiences.                                       |   |           |
| Investigate and apply for summer internships, research, or study abroad programs.                   |   |           |
| Make advising appointment for summer and fall: February – March.                                    |   |           |
| <b>Credits</b>  |   | <b>15</b> |
| <b>Junior</b>   |   |           |
| <b>Fall</b>   |   |           |
| ECON 3200 ECONOMIC THEORY: MICRO  | 3 |           |
| Cognate Course #4   | 3 |           |
| General Education Course or Elective  | 3 |           |
| General Education Course or Elective  | 3 |           |
| General Education Course or Elective  | 3 |           |
| Elective  | 1 |           |
| Apply for a paid internship or research assistantship.  |   |           |
| Attend a mock interview workshop or use online interview tools with Career Services.                |   |           |
| Start researching and visiting graduate programs or professional schools.                           |   |           |
| Visit Career Center, continue updating resume.  |   |           |
| Make advising appointment for spring: Sept-Oct.   |   |           |
| <b>Credits</b>  |   | <b>16</b> |
| <b>Spring</b>   |   |           |
| ECON 3300 INTRODUCTION TO ECONOMETRICS  | 3 |           |
| Upper Level Economics Course (3000+)  | 3 |           |
| Cognate Course #5   | 3 |           |
| General Education Course or Elective  | 3 |           |
| General Education Course or Elective  | 3 |           |
| Request letters of recommendation from faculty for jobs or grad school.                             |   |           |
| Attend the All-Majors Career Fair with a plan to network.   |   |           |
| Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. |   |           |
| Make advising appointment for summer and fall: February – March.                                    |   |           |
| <b>Credits</b>  |   | <b>15</b> |
| <b>Senior</b>   |   |           |
| <b>Fall</b>   |   |           |
| Upper Level Economics Course (3000+)  | 3 |           |
| Upper Level Economics Course (4000+)  | 3 |           |
| General Education Course or Elective  | 3 |           |

|   |                |
|---|----------------|
| General Education Course or Elective                                      | 3              |
| General Education Course or Elective                                      | 3              |
| Check in with Career Center for networking tips.                          |                |
| Finalize graduate school applications or job search strategy.             |                |
| Attend a career fair and start applying for full-time jobs.               |                |
| Prepare for interviews and salary negotiations with Career Services.      |                |
| Make advising appointment for spring: Sept. - Oct.                        |                |
| <b>Credits</b>  | <b>15</b>      |
| <b>Spring</b>   |                |
| ECON 4990 SENIOR ASSESSMENT   | 0              |
| Upper Level Economics Course (4000+)                                      | 3              |
| Upper Level Economics Course (3000+)                                      | 3              |
| General Education Course or Elective                                      | 3              |
| General Education Course or Elective                                      | 3              |
| General Education Course or Elective                                      | 3              |
| Complete your final advising check before graduation.                     |                |
| Polish your resume, cover letters, and LinkedIn profile.                  |                |
| Stay connected by joining alumni networks and professional organizations. |                |
| Apply for graduation via MavLink.   |                |
| <b>Credits</b>  | <b>15</b>      |
| <b>Total Credits</b>  | <b>120-122</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Economics Minor

### Economics Minor Requirements

A minor in Economics may be secured by completing the following:



| Code   | Title                           | Credits  |
|--|---------------------------------|----------|
| <b>All of the following:</b>                           |                                 | <b>6</b> |
| ECON 2200  | PRINCIPLES OF ECONOMICS (MICRO) |          |
| ECON 2220  | PRINCIPLES OF ECONOMICS (MACRO) |          |
| Select 12 hours of upper division courses in Economics |                                 | 12       |

Any course that may be used for the major may be used for the minor.

A grade of “C” (2.0) or better is required in each course counting toward the minor.

## English

The Department of English is a vibrant academic community where students are at the center of their learning experience. We strive to create an environment where every voice is valued, and connections among peers are forged through meaningful engagement. English majors are trained to write well, to think critically, to engage empathetically, and to develop arguments.

Our concentrations—Literatures in English, Language Studies, Creative Nonfiction, and Secondary English Teaching—offer diverse pathways for students to explore their interests and develop specialized expertise. Our commitment to excellence in education extends beyond the classroom, providing students with the tools they need to succeed in their chosen careers and make meaningful contributions to society.

## Other Information

All coursework taken for the English major or minor must be completed with a grade of “C-” or better.

## Student Groups

Sigma Tau Delta (English Honor Society)

## Option for Degree Completion—Fast Track Program

The Department of English has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor’s degree and a master’s degree in an accelerated time frame.

With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- This program is available for undergraduate students pursuing the BA degree in English desiring to pursue an MA in English
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.5
- Students must complete the Fast Track Approval form (Advisor, GPC Chair) and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses
- A minimum cumulative GPA of 3.0 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid

**How to apply:** Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code. Admission to Fast Track does NOT guarantee admission

to the graduate program. The admit term must be after the completion term of the undergraduate degree.

Note: Students may enroll in dual-level courses for Fast-Track graduate credit, but not seminars.

## Contact

192 Arts and Sciences Hall  
402.554.2635

**Website** (<http://www.unomaha.edu/college-of-arts-and-sciences/english/>)

## Degrees Offered

- English, Bachelor of Arts (p. 112)

## Minors Offered

- English Minor (p. 122)

## Certificates Offered

- Certificate in Course in Teaching English to Speakers of Other Languages (TESOL) (p. 121)

Our graduates emerge as versatile professionals sought after by a diverse range of industries, including publishing, non-profits, media networks, marketing firms, and government agencies. Employers, graduate schools, and professional programs recognize the value of English majors for their ability to adapt their expertise in writing, critical analysis, editing, and research to various fields, such as law, business, media, medicine, and public service.

Although the skills gained with an English major are applicable to many fields, English graduates most commonly pursue and succeed in fields such as:

- Marketing
- Editing and Publishing
- Teaching
- Technical Writing
- Research Analyst
- Insurance Underwriter
- Copywriting
- Grant Writing
- Medical Writing
- Public Relations

## English, Bachelor of Arts

Each concentration has its own core requirements including ENGL 2410 or ENGL 2420, foundational English courses. All concentrations also include a literature, language studies, or creative nonfiction course. All concentrations require a capstone experience, including an internship, the senior paper/project, or student teaching.

## English, Bachelor of Arts Requirements

The Bachelor of Arts degree with a major in English may be completed through one of three concentrations, each with some overlap in course requirements to allow students to migrate efficiently between concentrations.

- Literatures in English (p. 118)
- Creative Nonfiction (p. 113)
- Language Studies (p. 115)

Concentration in Secondary English Teaching (p. 121) (available exclusively as a double major with the BSED degree through CEHHS)

The English major with a concentration in Creative Nonfiction, Language Studies, or Literatures in English may be added as a double major for students with a primary program of study in or outside the College of Arts and Sciences. For students pursuing a BSED through the College of Education, Health and Human Sciences, the English major is commonly added as a double major. Students should work with an advisor to ensure requirements for both programs are met through a careful selection of courses.

Students wishing to complete the Nebraska State Certification requirements to teach English at the 7-12 level now have the option to also earn a second major in English without adding additional time to their program of study. This partnership between CEHHS and the College of Arts and Sciences creates an efficient path for students who would like to earn the English major and prepare for Nebraska State Certification to teach in this area. Students declare the Bachelor of Science in Education with a major in Secondary Education (Secondary English 7-12 Endorsement) as their primary degree and program of study. They may then add English as a double major (not a dual degree) with a concentration in Secondary English Teaching. For details, see the Concentration in Secondary English Teaching.

## Creative Nonfiction Concentration

### English, Bachelor of Arts with a Concentration in Creative Nonfiction

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |

|   |  |
|---|--|
| or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT   |  |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                              |
| STAT 1530   | ELEMENTARY STATISTICS  |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge</b>   |  |
| <b>13</b>   |  |
| Social Science – 3 hrs.   |  |
| Humanities – 3 hrs.   |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility</b>   |  |
| <b>6</b>  |  |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>Creative Nonfiction Concentration - 37-39 Hours Required</b>   |  |
| <b>Required courses</b>   |  |
| <b>9</b>  |  |
| ENGL 2410   | CRITICAL APPROACHES TO LITERATURE (^)                        |
| or ENGL 2420  | CRITICAL APPROACHES TO LANGUAGE STUDIES                      |
| ENGL 3130   | AMERICAN NONFICTION (**)                                     |
| ENGL 3150   | FORM AND STYLE IN CREATIVE NONFICTION (** ^)                 |
| <b>Select two from the following literature courses</b>   |  |
| <b>6</b>  |  |
| ENGL 2110   | INTRODUCTION TO CREATIVE NONFICTION WRITING (** ^)           |
| ENGL 2310   | INTRODUCTION TO BRITISH LITERATURE I (** ^)                  |
| ENGL 2320   | INTRODUCTION TO BRITISH LITERATURE II (**)                   |
| ENGL 2350   | AFRICAN AMERICAN LITERATURE 1746-1939 (^)                    |
| ENGL 2360   | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)                 |
| ENGL 2450   | AMERICAN LITERATURE I (** ^)                                 |
| ENGL 2460   | AMERICAN LITERATURE II (** ^)                                |
| ENGL 2470   | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                  |
| ENGL 2490   | LATINO/A LITERATURE (** ^)                                   |
| ENGL 2500   | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^) |
| ENGL 2510   | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)   |
| ENGL 2520   | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                    |
| <b>Select three from the following Nonfiction courses</b>   |  |
| <b>9</b>  |  |
| ENGL 3000   | SPECIAL TOPICS IN ENGLISH (Creative Nonfiction Topic)        |
| ENGL 4820   | AUTOBIOGRAPHY (^)  |
| ENGL 4840   | TRAVEL WRITING (^)   |
| ENGL 4860   | THE MODERN FAMILIAR ESSAY (^)                                |
| ENGL 4930   | NARRATIVE NONFICTION   |
| ENGL 4940   | PUBLISHING THE LINDEN REVIEW                                 |

|           |   |
|-----------|---|
| ENGL 4960 | TOPICS IN LANGUAGE AND LITERATURE<br>(Nonfiction Topic) |
| ENGL 4970 | WRITING ABOUT SICKNESS AND<br>HEALTH (*)                |

\*Up to 3 credits of this requirement may be satisfied with  
WRWS 2050 or WRWS 2060

**Select one of the following 1-3**

|           |                         |
|-----------|-------------------------|
| ENGL 4990 | SENIOR PAPER OR PROJECT |
| ENGL 4800 | ENGLISH INTERNSHIP (*)  |

**Any four 3-credit hour English (ENGL) courses at any level 12**

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate  
certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+  
hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3  
hours

Additional Humanities Gen. Ed. from another Discipline - 3  
hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5  
hours

Option 3: CAS comprehensive major (50+ hours) OR any second  
UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## English, Bachelor of Arts with a Concentration in Creative Nonfiction Four Year Plan

### Freshman

| Fall   |  | Credits   |
|--|--|-----------|
| ENGL 1150  | ENGLISH COMPOSITION I                                | 3         |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| World Language I   |  | 5         |
| General Education Course or Elective   |  | 3         |
| Elective   |  | 1         |
| Attend Durango Days; other campus events.  |  |           |
| Set up a Handshake account and take the Pathway U career<br>assessment.              |  |           |
| Attend the Student Involvement & Volunteer Fair to explore<br>student organizations. |  |           |
| Make advising appointment for spring: Sept-Oct.                                      |  |           |
| Work with your advisor to develop your Pathway in Stellic.                           |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Spring

|           |  |   |
|-----------|--|---|
| ENGL 1160 | COLLEGE RESEARCH AND<br>INFORMATION LITERACY | 3 |
|-----------|--|---|

|   |   |     |
|---|---|-----|
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR<br>HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH<br>SUPPORT | 3-4 |
|---|---|-----|

World Language II 5

General Education Course or Elective 3

Attend campus events such as major exploration week to get  
an idea of interests and career paths.

Schedule a resume review with UNO Career Services.

Visit faculty office hours and ask about undergraduate  
research opportunities.

Make advising appointment for summer and fall: February –  
March.

**Credits 14-15**

### Sophomore

#### Fall

World Language III 3

General Education Course or Elective 4

|                           |   |   |
|---------------------------|---|---|
| ENGL 2410<br>or ENGL 2420 | CRITICAL APPROACHES TO LITERATURE<br>(*)<br>or CRITICAL APPROACHES TO<br>LANGUAGE STUDIES | 3 |
|---------------------------|---|---|

ENGL Literature Survey course 3

General Education Course or Elective 3

Attend the Career & Internship Fair to start networking with  
employers.

Look for volunteer, research, or part-time work to gain  
experience.

Join a student organization or club related to your field or  
interests.

Make advising appointment for spring: Sept. - Oct.

**Credits 16**

### Spring

World Language IV 3

General Education Course or Elective 3

General Education Course or Elective 3

ENGL literature survey course 3

General Education Course or Elective 3

Attend a career fair for informational and networking  
purposes.

Update your resume and LinkedIn profile with new  
experiences.

Investigate and apply for summer internships, research, or  
study abroad programs.

Make advising appointment for summer and fall: February –  
March.

**Credits 15**

### Junior

#### Fall

|           |  |   |
|-----------|--|---|
| ENGL 3150 | FORM AND STYLE IN CREATIVE<br>NONFICTION | 3 |
|-----------|--|---|

ENGL 1000-level or higher course 3

General Education Course or Elective 3

General Education Course or Elective 3

General Education Course or Elective 3

Apply for a paid internship or research assistantship.

Attend a mock interview workshop or use online interview tools with Career Services.

Start researching and visiting graduate programs or professional schools.

Visit Career Center, continue updating resume.

Make advising appointment for spring: Sept-Oct.

**Credits** **15**

### Spring

ENGL 3130 AMERICAN NONFICTION 3

ENGL 1000-level or higher course 3

Elective 3

General Education Course or Elective 4

General Education Course or Elective 3

Request letters of recommendation from faculty for jobs or grad school.

Attend the All-Majors Career Fair with a plan to network.

Meet with your advisor or submit for a graduation check-in to review remaining degree requirements.

Make advising appointment for summer and fall: February – March.

**Credits** **16**

### Senior

#### Fall

ENGL 4990 SENIOR PAPER OR PROJECT 1-3  
or ENGL 4800 or ENGLISH INTERNSHIP

ENGL 4000-Level Creative Nonfiction course 3

ENGL 4000-Level Creative Nonfiction course 3

General Education Course or Elective 3

Elective 3

Elective 1

Check in with Career Center for networking tips.

Finalize graduate school applications or job search strategy.

Attend a career fair and start applying for full-time jobs.

Prepare for interviews and salary negotiations with Career Services.

Make advising appointment for spring: Sept. - Oct.

**Credits** **14-16**

### Spring

ENGL 4000-Level Brit Creative Nonfiction course 3

ENGL 1000-level or higher course 3

ENGL 1000-level or higher course 3

Elective 3

Elective 3

Complete your final advising check before graduation.

Polish your resume, cover letters, and LinkedIn profile.

Stay connected by joining alumni networks and professional organizations.

Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120-123**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Language Studies Concentration

### English, Bachelor of Arts with a Concentration in Language Studies

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

#### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

**Fundamental Skills** **15**

#### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

#### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

#### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

|  |  |
|--|--|
| Social Science – 3 hrs.  |  |
| Humanities – 3 hrs.  |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.                                |  |
| Arts – 3 hrs.  |  |
| <b>Individual and Social Responsibility</b>  | <b>6</b>   |
| Cultural Knowledge – 3 hrs.  |  |
| Civic Knowledge and Engagement – 3 hrs.  |  |
| <b>MAJOR REQUIREMENTS</b>  |  |
| **Course will satisfy UNO's General Education requirement                                |  |
| ^Course requires pre-requisite(s)  |  |
| <b>Language Studies Concentration - 37-39 Hours Required</b>                             |  |
| <b>Required coursework:</b>  | <b>6</b>   |
| ENGL 2420  | CRITICAL APPROACHES TO LANGUAGE STUDIES (^)                                  |
| ENGL 3610  | INTRODUCTION TO LINGUISTICS (** ^)   |
| <b>Select one from the following list of American Literature courses</b>                 | <b>3</b>   |
| ENGL 2350  | AFRICAN AMERICAN LITERATURE 1746-1939  |
| ENGL 2360  | AFRICAN AMERICAN LITERATURE 1940-PRESENT                                     |
| ENGL 2410  | CRITICAL APPROACHES TO LITERATURE  |
| ENGL 2450  | AMERICAN LITERATURE I (** ^)   |
| ENGL 2460  | AMERICAN LITERATURE II (** ^)  |
| ENGL 2470  | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                                  |
| ENGL 2490  | LATINO/A LITERATURE (**^)  |
| ENGL 3100  | NATIVE AMERICAN LITERATURE: MAJOR FIGURES (^)                                |
| ENGL 3300  | JUNIOR TOPICS IN AMERICAN LITERATURE (^)                                     |
| ENGL 4030  | AMERICAN POETRY SINCE 1900 (^)   |
| ENGL 4060  | THE AMERICAN NOVEL (^)   |
| ENGL 4140  | AMERICAN LITERARY REALISM AND NATURALISM (^)                                 |
| ENGL 4160  | TOPICS IN AMERICAN REGIONALISM (^)   |
| ENGL 4210  | THE HARLEM RENAISSANCE (^)   |
| ENGL 4230  | LATINO LITERATURE (^)  |
| ENGL 4240  | TEACHING LATINO LITERATURE (^)   |
| ENGL/WGST 4250   | WOMEN'S STUDIES IN LITERATURE (^)  |
| ENGL 4260  | GLOBAL WOMEN WRITERS (^)   |
| ENGL/WGST 4270   | WOMEN WRITERS OF THE NORTH AMERICAN WEST (^)                                 |
| ENGL 4280  | QUEER AMERICAN WESTS (^)   |
| ENGL/MEDH 4950   | BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM (^) |
| ENGL 4960  | TOPICS IN LANGUAGE AND LITERATURE (American Literature Topic)                |
| <b>Select one from the following list of British/Irish/Anglophone Literature courses</b> | <b>3</b>   |
| ENGL 2310  | INTRODUCTION TO BRITISH LITERATURE I (** ^)                                  |
| ENGL 2320  | INTRODUCTION TO BRITISH LITERATURE II (** ^)                                 |
| ENGL 2410  | CRITICAL APPROACHES TO LITERATURE (^)  |
| ENGL 2500  | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^)                 |

|  |  |
|--|--|
| ENGL 2510  | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)         |
| ENGL 2520  | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                          |
| ENGL 3280  | IRISH LITERATURE I (** ^)  |
| ENGL 3400  | JUNIOR TOPICS IN BRITISH/IRISH/ANGLOPHONE LITERATURE (^)           |
| ENGL 4300  | ANGLO-SAXON LITERATURE   |
| ENGL 4320  | CHAUCE (^)   |
| ENGL 4330  | RENAISSANCE SATIRE (^)   |
| ENGL 4340  | SHAKESPEARE (^)  |
| ENGL 4370  | RESTORATION AND EIGHTEENTH-CENTURY LITERATURE (^)                  |
| ENGL 4380  | THE EIGHTEENTH CENTURY ENGLISH NOVEL (^)                           |
| ENGL 4390  | MEDIEVAL CELTIC LITERATURE (^)                                     |
| ENGL 4400  | KING ARTHUR THROUGH THE AGES (^)                                   |
| ENGL 4410  | LITERATURE OF THE ROMANTIC PERIOD (^)                              |
| ENGL 4420  | NINETEENTH-CENTURY ENGLISH AND ANGLOPHONE LITERATURES (^)          |
| ENGL 4430  | THE BRITISH AND ANGLOPHONE NOVEL (19TH AND 20TH CENTURY) (^)       |
| ENGL 4440  | BRAM STOKER: BEYOND DRACULA (^)                                    |
| ENGL 4450  | MODERN IRISH DRAMA (^)   |
| ENGL 4460  | THE 20TH CENTURY ENGLISH NOVEL (^)                                 |
| ENGL 4490  | GREAT WORKS OF BRITISH LITERATURE (^)                              |
| ENGL 4960  | TOPICS IN LANGUAGE AND LITERATURE (British/Irish/Anglophone Topic) |
| <b>Select one from the following list of Creative Nonfiction courses</b> | <b>3</b>   |
| ENGL 3130  | AMERICAN NONFICTION (^)  |
| ENGL 3150  | FORM AND STYLE IN CREATIVE NONFICTION (^)                          |
| ENGL 3170  | SUCCESSFUL FREELANCE JOURNAL WRITING (^)                           |
| ENGL 3180  | GENDER IDENTITY IN PERSONAL WRITING (^)                            |
| ENGL 4820  | AUTOBIOGRAPHY (^)  |
| ENGL 4840  | TRAVEL WRITING (^)   |
| ENGL 4860  | THE MODERN FAMILIAR ESSAY (^)                                      |
| ENGL 4930  | NARRATIVE NONFICTION   |
| ENGL 4970  | WRITING ABOUT SICKNESS AND HEALTH (^)                              |
| ENGL 4960  | TOPICS IN LANGUAGE AND LITERATURE (Creative Nonfiction Topic)      |
| <b>Select five from the following list of Language Studies courses</b>   | <b>15</b>  |
| ENGL 3770  | WRITING CENTER THEORY, PEDAGOGY, AND RESEARCH                      |
| ENGL 3980  | TECHNICAL WRITING ACROSS THE DISCIPLINES (^)                       |
| ENGL 4620  | HISTORY OF ENGLISH   |
| ENGL 4640  | APPLIED LINGUISTICS (^)  |
| ENGL 4650  | STRUCTURE OF ENGLISH (^)   |
| ENGL 4670  | SOCIOLINGUISTICS (^)   |
| ENGL 4690  | TOPICS IN LINGUISTICS  |
| ENGL 4730  | CONTEMPORARY RHETORIC  |
| ENGL 4750  | COMPOSITION THEORY & PEDAGOGY                                      |

|   |  |               |
|---|--|---------------|
| ENGL/JMC 4810   | DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS (^)         |               |
| ENGL/JMC 4830   | TECHNICAL COMMUNICATION (^)                                |               |
| ENGL/JMC 4850   | INFORMATION DESIGN FOR TECHNICAL COMMUNICATORS (^)         |               |
| ENGL/JMC 4870   | TECHNICAL EDITING (^)                                      |               |
| ENGL/JMC 4890   | CAPSTONE COURSE IN TECHNICAL COMMUNICATION (^)             |               |
| ENGL 4960   | TOPICS IN LANGUAGE AND LITERATURE (Language Studies Topic) |               |
| <b>English Internship</b>   |  | <b>1-3</b>    |
| ENGL 4800   | ENGLISH INTERNSHIP (^)                                     |               |
| <b>Any two 3-credit hour English (ENGL) courses at any level</b>                  |  | <b>6</b>      |
| <b>College Breadth (choose one option)</b>  |  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours         |  |               |
| Option 2: Additional General Education Requirements - 18+ hours                   |  |               |
| Additional quantitative literacy - 3 hours  |  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |  |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |  |               |
| HIST 1000 and HIST 1010 - 6 hours   |  |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |  |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |  |               |
| <b>Bachelor of Arts Language Requirement</b>                                      |  | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |  |               |
| <b>ELECTIVES</b>  |  |               |
| Elective hours as required to reach a total of 120 hours                          |  |               |

## English, Bachelor of Arts with a Concentration in Language Studies Four Year Plan

### Freshman

| Fall  |  | Credits |
|---|--|---------|
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3       |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3       |
| World Language I  |  | 5       |
| General Education Course or Elective  |  | 3       |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |         |

**Credits 14**

### Spring

|           |   |   |
|-----------|---|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
|-----------|---|---|

|  |  |     |
|--|--|-----|
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH SUPPORT | 3-4 |
| World Language II  |  | 5   |
| General Education Course or Elective   |  | 3   |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |  |     |

**Credits 14-15**

### Sophomore

#### Fall

|  |   |   |
|--|---|---|
| ENGL 2420  | CRITICAL APPROACHES TO LANGUAGE STUDIES | 3 |
| ENGL Literatures in English course   |   | 3 |
| World Language III   |   | 3 |
| General Education Course or Elective   |   | 3 |
| General Education Course or Elective   |   | 4 |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |   |   |

**Credits 16**

#### Spring

|                                      |                             |   |
|--------------------------------------|-----------------------------|---|
| ENGL 3610                            | INTRODUCTION TO LINGUISTICS | 3 |
| World Language IV                    |                             | 3 |
| General Education Course or Elective |                             | 3 |
| General Education Course or Elective |                             | 3 |
| General Education Course or Elective |                             | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

### Junior

#### Fall

|  |  |   |
|--|--|---|
| ENGL Language Studies course (3000/4000 level) |  | 3 |
| ENGL Literatures in English course             |  | 3 |
| General Education Course or Elective           |  | 3 |
| General Education Course or Elective           |  | 3 |
| Elective                                       |  | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15**

#### Spring

|  |  |   |
|--|--|---|
| ENGL Language Studies course (3000/4000 level) |  | 3 |
| ENGL 1000-level or higher course               |  | 3 |
| General Education Course or Elective           |  | 4 |
| General Education Course or Elective           |  | 3 |



|  |                |
|--|----------------|
| Elective   | 3              |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |                |
| <b>Credits</b>   | <b>16</b>      |
| <b>Senior</b>  |                |
| <b>Fall</b>  |                |
| ENGL Language Studies course (3000/4000 level)   | 3              |
| ENGL Language Studies course (3000/4000 level)   | 3              |
| ENGL 1000-level or higher course   | 3              |
| General Education Course or Elective   | 3              |
| Elective   | 3              |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.     |                |
| <b>Credits</b>   | <b>15</b>      |
| <b>Spring</b>  |                |
| ENGL Creative Nonfiction course (3000/4000 level)  | 3              |
| ENGL Language Studies course (3000/4000 level)   | 3              |
| ENGL 4800 ENGLISH INTERNSHIP   | 1-3            |
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 2              |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink .  |                |
| <b>Credits</b>   | <b>15-17</b>   |
| <b>Total Credits</b>   | <b>120-123</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career

advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Literatures in English Concentration

### English, Bachelor of Arts with a Concentration in Literatures in English

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing - 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication - 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy - 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy - 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs.   |   |           |
| Humanities - 3 hrs.   |   |           |
| Natural and Physical Science (must complete a lab) - 4 hrs.   |   |           |
| Arts - 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs.   |   |           |
| Civic Knowledge and Engagement - 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Literatures in English Concentration - 37-39 Hours Required</b>  |   |           |
| <b>Select the following</b>   |   | <b>3</b>  |
| ENGL 2410   | CRITICAL APPROACHES TO LITERATURE (^)                   |           |
| <b>Select one from the following 2000 Level Literature Survey Courses</b>   |   | <b>3</b>  |
| ENGL 2310   | INTRODUCTION TO BRITISH LITERATURE I (**)               |           |

|  |  |
|--|--|
| ENGL 2320  | INTRODUCTION TO BRITISH LITERATURE II (**)                     |
| ENGL 2350  | AFRICAN AMERICAN LITERATURE 1746-1939                          |
| ENGL 2450  | AMERICAN LITERATURE I (**)                                     |
| ENGL 2460  | AMERICAN LITERATURE II (**)                                    |
| ENGL 2470  | SURVEY OF NATIVE AMERICAN LITERATURE (**)                      |
| ENGL 2490  | LATINO/A LITERATURE (**)                                       |
| ENGL 2510  | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (**)       |
| ENGL 2520  | GLOBAL EXPLORATIONS: THE MODERN WORLD                          |
| <b>Select two Literatures in English Courses at the 3000 Level or Above (see table below for 4000 Level Courses)</b> |  |
| ENGL 3000  | SPECIAL TOPICS IN ENGLISH (When topic is literature)           |
| ENGL 3100  | NATIVE AMERICAN LITERATURE: MAJOR FIGURES                      |
| ENGL 3130  | AMERICAN NONFICTION (**)                                       |
| ENGL 3280  | IRISH LITERATURE I (**)  |
| ENGL 3290  | IRISH LITERATURE II (**)                                       |
| ENGL 3300  | JUNIOR TOPICS IN AMERICAN LITERATURE                           |
| ENGL 3400  | JUNIOR TOPICS IN BRITISH/IRISH/ANGLOPHONE LITERATURE           |
| ENGL 3500  | JUNIOR TOPICS IN GLOBAL LITERATURE                             |
| <b>Select three from the following 4000 Level Literatures in English Courses</b>                                     |  |
| ENGL 4020  | AMERICAN POETRY TO 1900  |
| ENGL 4030  | AMERICAN POETRY SINCE 1900                                     |
| ENGL 4060  | THE AMERICAN NOVEL   |
| ENGL 4140  | AMERICAN LITERARY REALISM AND NATURALISM                       |
| ENGL 4160  | TOPICS IN AMERICAN REGIONALISM                                 |
| ENGL 4190  | THE AMERICAN NIGHTMARE   |
| ENGL 4210  | THE HARLEM RENAISSANCE   |
| ENGL 4230  | LATINO LITERATURE  |
| ENGL 4240  | TEACHING LATINO LITERATURE (**)                                |
| ENGL 4250  | WOMEN'S STUDIES IN LITERATURE                                  |
| ENGL 4260  | GLOBAL WOMEN WRITERS   |
| ENGL 4270  | WOMEN WRITERS OF THE NORTH AMERICAN WEST                       |
| ENGL 4280  | QUEER AMERICAN WESTS   |
| ENGL 4300  | ANGLO-SAXON LITERATURE   |
| ENGL 4320  | CHAUCE ( ^ )   |
| ENGL 4330  | RENAISSANCE SATIRE   |
| ENGL 4340  | SHAKESPEARE  |
| ENGL 4370  | RESTORATION AND EIGHTEENTH-CENTURY LITERATURE ( ^ )            |
| ENGL 4380  | THE EIGHTEENTH CENTURY ENGLISH NOVEL ( ^ )                     |
| ENGL 4390  | MEDIEVAL CELTIC LITERATURE ( ^ )                               |
| ENGL 4400  | KING ARTHUR THROUGH THE AGES                                   |
| ENGL 4410  | LITERATURE OF THE ROMANTIC PERIOD                              |
| ENGL 4420  | NINETEENTH-CENTURY ENGLISH AND ANGLOPHONE LITERATURES ( ^ )    |
| ENGL 4430  | THE BRITISH AND ANGLOPHONE NOVEL (19TH AND 20TH CENTURY) ( ^ ) |

|           |  |
|-----------|--|
| ENGL 4440 | BRAM STOKER: BEYOND DRACULA  |
| ENGL 4450 | MODERN IRISH DRAMA   |
| ENGL 4460 | THE 20TH CENTURY ENGLISH NOVEL   |
| ENGL 4490 | GREAT WORKS OF BRITISH LITERATURE  |
| ENGL 4950 | BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM |
| ENGL 4960 | TOPICS IN LANGUAGE AND LITERATURE (When topic is literature)             |

**Select any five English Courses, Including Additional Literatures in English Courses** <sup>1</sup> **15**

**Select one of the following** **1-3**

|           |                               |
|-----------|-------------------------------|
| ENGL 4990 | SENIOR PAPER OR PROJECT ( ^ ) |
| ENGL 4800 | ENGLISH INTERNSHIP ( ^ )      |

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science with or without Lab - 3-4 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement -** **16**

FREN, GERM, or SPAN, 1110\*\*, 1120, 2110, 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Only three-credit hours can be at the 1000 Level.

## English, Bachelor of Arts with a Concentration in Literatures in English Four-Year Plan

### Freshman

| Fall  |  | Credits |
|---|--|---------|
| ENGL 1150   | ENGLISH COMPOSITION I ( ^ )                          | 3       |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3       |
| World Language I  |  | 5       |
| General Education Course or Elective  |  | 3       |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |         |

**Credits** **14**

### Spring

|           |   |   |
|-----------|---|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
|-----------|---|---|

|   |   |     |
|---|---|-----|
| MATH 1120<br>or MATH 1220<br>or MATH 1130<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING (**)<br>or COLLEGE ALGEBRA<br>or QUANTITATIVE LITERACY<br>or COLLEGE ALGEBRA WITH<br>SUPPORT | 3-4 |
|---|---|-----|

World Language II 5

General Education or Elective 3

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 14-15**

### Sophomore

#### Fall

|                           |   |   |
|---------------------------|---|---|
| ENGL 2410<br>or ENGL 2420 | CRITICAL APPROACHES TO LITERATURE<br>(*)<br>or CRITICAL APPROACHES TO<br>LANGUAGE STUDIES | 3 |
|---------------------------|---|---|

ENGL 2000 Level Literature Survey course 3

World Language III 3

General Education Course or Elective 3

General Education Course or Elective 3

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

#### Spring

ENGL 3000 Level or higher Literature Course 3

World Language IV 3

General Education Course or Elective 3

General Education Course or Elective 3

General Education Course or Elective 4

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 16**

### Junior

#### Fall

ENGL 1000 level or higher (any ENGL) 3

ENGL 2000 level or higher (any ENGL) 3

ENGL 2000 level or higher (any ENGL) 3

ENGL 2000 level or higher (any ENGL) 3

ENGL 2000 level or higher (any ENGL) 3

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15**

#### Spring

ENGL 3000 Level or higher Literature Course 3

ENGL 3000 Level or higher Literature Course 3

ENGL 4000 Level Literature Course 3

Elective 3

Elective 3

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15**

### Senior

#### Fall

ENGL 4990 SENIOR PAPER OR PROJECT 1-3  
or ENGL 4800 or ENGLISH INTERNSHIP

ENGL 4000 Level Literature Course 3

ENGL 4000 Level Literature Course 3

Elective 3

Elective 3

Elective 3

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 16-18**

#### Spring

Elective 3

Elective 3

Elective 3

Elective 3

Elective 3

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits 15**

**Total Credits 120-123**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Secondary English Teaching Concentration

### English, Double Major with a Concentration in Secondary English Teaching

| Code  | Title   | Credits   |
|---|---|-----------|
| This concentration is available only to those pursuing a BS in Secondary Education, with an endorsement in Secondary English 7-12, from UNO's College of Education. By taking just three more English courses (at the 3000 or 4000 level) than are required for this endorsement, a student can graduate with a BS in Secondary Education and a double major in English. This type of degree, indicating enhanced critical thinking and writing skills, will help make those who choose this concentration extremely attractive to a wide range of potential employers, both inside and outside the educational field |   |           |
| Minimum grade of "C" required (this is different from the English Department's requirement of a minimum grade of C- or above).  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Secondary English Teaching Concentration - 36 Hours Required</b>   |   |           |
| <b>Required Coursework:</b>   |   | <b>12</b> |
| ENGL 2410   | CRITICAL APPROACHES TO LITERATURE (^)         |           |
| or ENGL 2420  | CRITICAL APPROACHES TO LANGUAGE STUDIES       |           |
| ENGL 2310   | INTRODUCTION TO BRITISH LITERATURE I (** ^)   |           |
| or ENGL 2320  | INTRODUCTION TO BRITISH LITERATURE II         |           |
| ENGL 2450   | AMERICAN LITERATURE I (** ^)                  |           |
| or ENGL 2460  | AMERICAN LITERATURE II                        |           |
| ENGL 4060   | THE AMERICAN NOVEL (^)                        |           |
| or ENGL 4490  | GREAT WORKS OF BRITISH LITERATURE             |           |
| <b>Select one from the following</b>  |   | <b>3</b>  |
| ENGL 2250   | THE SHORT STORY (** ^)                        |           |
| ENGL 2260   | BLACK SHORT STORY (** ^)                      |           |
| ENGL 2280   | INTRODUCTION TO LANGUAGE (** ^)               |           |
| ENGL 2470   | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)   |           |
| ENGL 2490   | LATINO/A LITERATURE (** ^)                    |           |
| ENGL 4250   | WOMEN'S STUDIES IN LITERATURE (^)             |           |
| <b>Select one from the following</b>  |   | <b>3</b>  |
| ENGL 3100   | NATIVE AMERICAN LITERATURE: MAJOR FIGURES (^) |           |
| ENGL 3280   | IRISH LITERATURE I (** ^)                     |           |
| ENGL 3290   | IRISH LITERATURE II (** ^)                    |           |
| ENGL 4250   | WOMEN'S STUDIES IN LITERATURE (^)             |           |
| ENGL 4260   | GLOBAL WOMEN WRITERS                          |           |
| <b>Select all from the following</b>  |   | <b>9</b>  |

|   |                                   |          |
|---|-----------------------------------|----------|
| ENGL 4750   | COMPOSITION THEORY & PEDAGOGY (^) |          |
| ENGL 4860   | THE MODERN FAMILIAR ESSAY (^)     |          |
| ENGL 4340   | SHAKESPEARE (^)                   |          |
| <b>Any three 3-credit English (ENGL) courses at the 3000 level or above</b> |                                   | <b>9</b> |

(Note: Students can take English 4960 multiple times as long as they are on different Special Topics)

## Teaching English to Speakers of Other Languages (TESOL) Certificate

### Vision Statement

In the United States, the need for well-prepared language teachers is constant. Teachers are more likely than ever to have the opportunity to teach students who come from a variety of cultural and linguistic backgrounds.

The Department of English offers students the opportunity to obtain a certificate in Teaching English to Speakers of Other Languages (TESOL). This is a 15-hour/5-course certificate. Normally, students are able to complete the certificate requirements within three or four semesters.

The TESOL faculty have designed the certificate to help students get up to speed on language theory and pedagogy. You'll start with ENGL 3610 *Introduction to Linguistics*, which sets the foundation for upper-division courses. Then, you'll learn specifics about the English language so that you can explain sounds, words, sentences, and meanings to your students. In addition, you'll study theories about how adults learn languages as well as strategies for teaching language and designing curriculum.

A TESOL certificate does not certify a graduate to teach in Nebraska public schools. Instead, it is an academic credential meant (1) for teachers already certified in other areas, (2) for people who plan to teach in venues other than public schools, and (3) for anyone who works in some capacity with non-native speakers of English. The TESOL Certificate is a rigorous program that will make you very attractive to future employers, whether you remain in the U.S. or work overseas. But learning how to be a good teacher isn't easy. Are you ready for the challenge?

Students in Teacher Education or in Speech/Language Pathology should contact the TESOL director before applying to this program.

### Program Contact Information

Sarah Osborn, PhD, Director  
189S Arts & Sciences Hall (ASH)  
srfsosborn@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/english/academics/undergraduate-programs.php>)**

### Application Deadlines

Applications for this program are accepted on a rolling basis. To apply, write an email to the TESOL Director (srfsosborn@unomaha.edu) and include the following information:

- Your major (and minor if applicable)
- Your overall GPA at UNO
- Your reasons for wanting to complete the TESOL Certificate.

If you're accepted into the program, you will see this change reflected in your UNO DegreeWorks within a few days.

Note that UNO also offers a Graduate TESOL Certificate, which has a separate application process. Visit the Graduate Studies page for more information. (<https://catalog.unomaha.edu/graduate/degree-programs-certificates-minors/english/teaching-english-speakers-other-languages-certificate/index.html#text> (<https://catalog.unomaha.edu/graduate/degree-programs-certificates-minors/english/teaching-english-speakers-other-languages-certificate/#text>))

## Teaching English to Speakers of Other Languages (TESOL) Certificate Requirements

Students seeking a certificate in Teaching English to Speakers of Other Languages (TESOL) must take one course from each of the five categories below for a total of 15 credit hours.

Students in Teacher Education or in Speech/Language Pathology should contact the TESOL director before applying to this program.

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Take one course from each of the 5 categories below:</b> |  | <b>15</b> |
| <b>Category I</b>   |  |           |
| ENGL 3610   | INTRODUCTION TO LINGUISTICS                                |           |
| <b>Category II</b>  |  |           |
| ENGL 4640   | APPLIED LINGUISTICS  |           |
| <b>Category III</b>   |  |           |
| ENGL 4650   | STRUCTURE OF ENGLISH                                       |           |
| <b>Category IV</b>  |  |           |
| ENGL 3770   | WRITING CENTER THEORY, PEDAGOGY, AND RESEARCH <sup>1</sup> |           |
| ENGL 4750   | COMPOSITION THEORY & PEDAGOGY <sup>1</sup>                 |           |
| <b>Category V</b>   |  |           |
| ENGL 4620   | HISTORY OF ENGLISH   |           |
| ENGL 4670   | SOCIOLINGUISTICS   |           |
| ENGL 4800   | ENGLISH INTERNSHIP (with a TESOL Placement)                |           |

<sup>1</sup> With a TESOL-focused project.

- Note 1: Under some circumstances, the TESOL Certificate Director may allow substitute courses.
- Note 2: Students who earn less than a B in ENGL 3610 Introduction to Linguistics may be disenrolled from the program.

The linguistics faculty strongly recommends that students become proficient in a second language.

## English Minor

### English Minor Requirements

| Code  | Title | Credits |
|---|-------|---------|
| Select 6 credits of English at the 1000 level or higher (except ENGL 1140, ENGL 1150 and ENGL 1160) |       | 6       |

|   |           |
|---|-----------|
| Select 9 credits of English at the 3000 level or higher | 9         |
| <b>Total Credits</b>                                    | <b>15</b> |

## Environmental Studies

The field of Environmental Studies recognizes that finding solutions to the environmental challenges facing our society requires individuals with experience and training in a broad array of disciplines. Success in the field requires not only a scientific background to develop technical solutions but also an understanding of the social and economic implications of solutions and decisions. The Environmental Studies Program at UNO offers interdisciplinary undergraduate degrees that provide students with training in the breadth of disciplines required to understand the complex nature of solving environmental challenges, as well as the scientific expertise needed to successfully pursue a career relating to the environment.

## Other Information

All coursework taken for the Environmental Science major or minor must be completed with a grade of "C-" or better.

## Double Counting

ENVN–Geography & Planning and Geography double majors: Students may not count the same 3000-4000 level Geography courses towards both majors, with the exception of GEOG 3530 and 4050.

ENVN–Geography and Planning major with Geography minors: may not use the same 3000/4000 level course for both programs.

ENVN–Earth Sciences major and Geology minors: GEOL 1170 and one 2000-level or higher course may count toward both programs.

ENVN–Earth Sciences major and Geography minors: one upper-level GEOG/GEOL course may count toward both programs.

ENVN–Life Sciences and Biology double majors: With the exceptions of BIOL 1450 (<https://catalog.unomaha.edu/search/?P=BIOL%201450>), BIOL 1750 (<https://catalog.unomaha.edu/search/?P=BIOL%201750>), BIOL 2140 (<https://catalog.unomaha.edu/search/?P=BIOL%202140>), and BIOL 3340, no other biology courses may count for both majors.

BS/BA Geology major with ENVN minor: no 3000/4000 level courses may overlap.

## Fast Track Program (for students seeking the BS in Environmental Science with a concentration in Geography and Planning)

The Department of Geography/Geology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BS in Environmental Science (Geography & Planning Option) desiring to pursue an MS in Geography.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.



- Students must have a graduate faculty member in the department of Geography/Geology provide a short letter of support for their application to Fast Track as a faculty sponsor/mentor.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses
- A minimum cumulative GPA of 3.0 for graduate coursework is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived; the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Contact

Dr. David Manning, Director  
114 Allwine Hall  
davidmanning@unomaha.edu

**Website** (<http://www.unomaha.edu/college-of-arts-and-sciences/environmental-studies/>)

## Degrees Offered

- Environmental Science, Bachelor of Science with a Concentration in Analytical Sciences (p. 124)
- Environmental Science, Bachelor of Science with a Concentration in Earth Sciences (p. 127)
- Environmental Science, Bachelor of Science with a Concentration in Geography and Planning (p. 129)
- Environmental Science, Bachelor of Science with a Concentration in Life Sciences (p. 132)

## Core Requirements

All students majoring in Environmental Science will complete a common set of core requirements, in addition to courses specific to their concentration. Core requirements include the following:

| Code  | Title   | Credits |
|---|---|---------|
| ENVN 2010   | ENVIRONMENTAL PROBLEMS AND SOLUTIONS                | 2       |
| Two additional approved introductory environmental science courses                    |   | 6-7     |
| ENVN/GEOL/BIOL 4610   | ENVIRONMENTAL MONITORING AND ASSESSMENT             | 3       |
| A minimum of 1 credit hour in ENVN 4800 (up to 3 credits can be applied to the major) |   |         |
| ENVN/BIOL 4800  | INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING | 1-3     |
| ENVN/GEOG 4820  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS     | 3       |
| An approved course in statistics  |   | 3-4     |
| An approved GIS course  |   | 1-4     |

An approved course focusing on the human dimensions of environmental studies

3

### Total Credits

22-29

## Minors Offered

- Environmental Science Minor (p. 135)

The Environmental Studies Program at UNO offers interdisciplinary undergraduate degrees that provide students with training in the breadth of disciplines required to understand the complex nature of solving environmental challenges. Students acquire the scientific expertise to effectively pursue a career relating to the environment by focusing on one of four areas of concentration. The Environmental Studies Program is committed to preparing students for careers helping to meet the environmental challenges facing us locally, nationally and globally.

## Environmental Science – Analytical Sciences concentration

The analytical sciences concentration is designed to produce environmental scientists with a strong background in chemistry preparing them to find solutions to problems associated with chemical pollutants that are being released into the air, earth and water environments of our planet.

## Environmental Science – Earth Sciences concentration

The earth sciences concentration is designed to prepare students for a career in environmental geology, working on land, soil, and water conservation.

## Environmental Science – Geography and Planning concentration

The geography and planning concentration is designed to produce local and regional planning specialists who understand the best approaches for preventing environmental problems.

## Environmental Science – Life Sciences concentration

The life sciences concentration is designed to prepare a student for jobs as environmental biologists protecting natural ecosystems and promoting a healthy environment.

Some career options

- Air and Water quality scientist
- City and Regional Planning aide
- Conservation Biologist
- Environmental consultant
- Environmental educator
- Natural Resource Manager
- Environmental and Public Health Specialist
- Geospatial Information Systems technician
- Restoration Ecologist
- Soil and Water Conservationist
- Sustainability Coordinator
- Wildlife & Fisheries Biologist



# Environmental Science, Bachelor of Science with a Concentration in Analytical Sciences

## Environmental Science, Bachelor of Science with a Concentration in Analytical Sciences Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

#### Fundamental Skills 15

##### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND  
INFORMATION LITERACY

##### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

##### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE  
PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

##### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an  
approved data literacy course, or any approved natural or  
social science general education course.

#### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### Environmental Science Major with a Concentration in Analytical Sciences - 82-91 Hours Required

#### Required coursework 16-18

(Note that in the case of cross-listed courses, Environmental  
Science majors must enroll in the ENVN section)

ENVN 2010 ENVIRONMENTAL PROBLEMS AND  
SOLUTIONS (^)

GEOL 1010 ENVIRONMENTAL GEOLOGY (\*\*)

GEOG 1050 HUMAN-ENVIRONMENT GEOGRAPHY  
(\*\*)

ENVN/GEOL/BIO 4610 ENVIRONMENTAL MONITORING AND  
ASSESSMENT (^)

ENVN/BIO 4800 INTERNSHIP IN ENVIRONMENTAL  
MANAGEMENT AND PLANNING (^)

ENVN/GEOG 4820 INTRODUCTION TO ENVIRONMENTAL  
LAW & REGULATIONS (^)

#### Select one of the following Statistics courses - 3-4

BIO 4110 STATISTICS FOR BIOLOGICAL SCIENCES  
(^)

ENVN 2020 STATISTICS FOR LIFE AND  
ENVIRONMENTAL SCIENCE (^)

STAT 1530 ELEMENTARY STATISTICS (\*\* ^)

STAT 3000 STATISTICAL METHODS I (^)

PSYC 3130 STATISTICS FOR THE BEHAVIORAL  
SCIENCES (^)

SOC 2130 SOCIAL STATISTICS (^)

#### Select one of the following GIS courses 1-4

ENVN 4600 GIS APPLICATIONS FOR  
ENVIRONMENTAL SCIENCE (^)

GEOG 1090 INTRODUCTION TO GEOSPATIAL  
SCIENCES (\*\* ^)

GEOG 3530 CARTOGRAPHY AND DATA  
VISUALIZATION (^)

GEOG 4050 GEOGRAPHIC INFORMATION SYSTEMS  
I (^)

#### Select one of the following courses on the human dimensions of Environmental Studies 3

ANTH 4250 ENVIRONMENTAL ANTHROPOLOGY  
AND NATIVE PEOPLES OF THE GREAT  
PLAINS (^)

ECON 3320 ENVIRONMENTAL ECONOMICS AND  
BUSINESS STRATEGY (^)

ENVN/PHIL 3180 ENVIRONMENTAL ETHICS (^)

ENVN/SPAN 3310 SUSTAINABILITY AND THE  
ENVIRONMENT IN THE SPANISH-  
SPEAKING WORLD (^)

ENVN/PSCI 4270 GLOBAL ENVIRONMENTAL POLITICS (^)

ENVN 4390 THE NATURE OF THE PAST: AMERICAN  
ENVIRONMENTAL HISTORY, PRE-  
HISTORY TO THE PRESENT (^)

SOC 4760 ENVIRONMENTAL SOCIOLOGY (^)

#### Analytical Sciences Concentration requirements 8

CHEM 1180 GENERAL CHEMISTRY I  
& CHEM 1184 and GENERAL CHEMISTRY I  
LABORATORY (\*\* ^)

CHEM 1190 GENERAL CHEMISTRY II  
& CHEM 1194 and GENERAL CHEMISTRY II  
LABORATORY (^)

#### Select one of the following Organic Chemistry sequences 5-8

CHEM 2210 FUNDAMENTALS OF ORGANIC  
& CHEM 2214 CHEMISTRY  
and FUNDAMENTALS OF ORGANIC  
CHEMISTRY LABORATORY (^)

OR

CHEM 2250 ORGANIC CHEMISTRY I (^)

CHEM 2260 ORGANIC CHEMISTRY II  
& CHEM 2274 and ORGANIC CHEMISTRY  
LABORATORY (^)

**Other required Chemistry courses 18**

CHEM 2400 QUANTITATIVE ANALYSIS  
& CHEM 2404 and QUANTITATIVE ANALYSIS LAB (^)

CHEM 2500 INTRODUCTION TO INORGANIC  
CHEMISTRY (^)

CHEM 3030 ENVIRONMENTAL CHEMISTRY (^)

CHEM 3650 FUNDAMENTALS OF BIOCHEMISTRY  
& CHEM 3654 and FUNDAMENTALS OF  
BIOCHEMISTRY LABORATORY (^)

CHEM 4400 INSTRUMENTAL ANALYSIS  
& CHEM 4404 and INSTRUMENTAL ANALYSIS  
LABORATORY (^)

**Required Biology and Physics Courses 17**

BIOL 1330 ENVIRONMENTAL BIOLOGY

BIOL 2440 THE BIOLOGY OF MICROORGANISMS

PHYS 1110 PHYSICS FOR LIFE SCIENCE I (\*\*)

or PHYS 2110 GENERAL PHYSICS I - CALCULUS LEVEL

PHYS 1154 GENERAL PHYSICS LABORATORY I (\*\*)

PHYS 1120 PHYSICS FOR LIFE SCIENCE II

or PHYS 2120 GENERAL PHYSICS II-CALCULUS LEVEL

PHYS 1164 GENERAL PHYSICS LABORATORY II

**Select a minimum 11 hours from the following: 11**

ENVN/BIOL 3030 MICROBIAL ECOLOGY (^)

ENVN 4320 ECOLOGICAL SUSTAINABILITY AND  
HUMAN HEALTH (^)

GEOL 1170 INTRODUCTION TO PHYSICAL GEOLOGY  
(\*\*)

GEOL 2750 MINERALOGY  
& GEOL 2754 and MINERALOGY LABORATORY (^)

GEOL 2760 IGNEOUS AND METAMORPHIC  
& GEOL 2764 PETROLOGY  
and IGNEOUS AND METAMORPHIC  
PETROLOGY LABORATORY (^)

GEOL 3300 STRUCTURAL GEOLOGY  
& GEOL 3310 and STRUCTURAL GEOLOGY FIELD  
METHODS (^)

GEOL/GEOG 4200 WATER QUALITY (^)

GEOL/CHEM 4540 GEOCHEMISTRY (^)

GEOL/GEOG 4640 CRITICAL ZONE SCIENCE (^)

GEOG 3510 METEOROLOGY (\*\*)

GEOG 4010 CONSERVATION OF NATURAL  
RESOURCES (^)

GEOG 4020 SPATIAL ANALYSIS IN GEOGRAPHY (^)

GEOG 4030 COMPUTER MAPPING AND  
VISUALIZATION (^)

GEOG 4050 GEOGRAPHIC INFORMATION SYSTEMS  
I (^)

GEOG/GEOL/BIOL BIOGEOGRAPHY (^)  
4100

GEOG/GEOL 4260 PROCESS GEOMORPHOLOGY (^)

GEOG 4320 CLIMATOLOGY (^)

GEOG/GEOL 4330 SOIL GENESIS, MORPHOLOGY AND  
CLASSIFICATION (^)

GEOG 4340 WATER RESOURCES (^)

GEOG 4630 ENVIRONMENTAL REMOTE SENSING (^)

GEOG 4660 GEOGRAPHIC INFORMATION SYSTEMS  
II (^)

BIOL 3020 MOLECULAR BIOLOGY OF THE CELL (^)

BIOL 3340 ECOLOGY (^)

BIOL 3530 FLORA OF THE GREAT PLAINS (^)

BIOL 4120 CONSERVATION BIOLOGY (^)

ENVN/BIOL 4180 FRESHWATER ECOLOGY (^)

ENVN/GEOG 4350 GLOBAL CLIMATE CHANGE (^)

ENVN/BIOL 4410 WETLAND ECOLOGY AND  
MANAGEMENT (^)

**College Breadth 0**

College of Arts and Sciences' breadth requirement satisfied by  
this major

**Bachelor of Science Cognate Requirement 0**

See Major -

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Environmental Science, Bachelor of Science with a Concentration in Analytical Sciences Four Year Plan

**Freshman**

| Fall                         |  | Credits |
|------------------------------|--|---------|
| ENGL 1150                    | ENGLISH COMPOSITION I  | 3       |
| CHEM 1180<br>& CHEM 1184     | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY   | 4       |
| PHYS 1110<br>& PHYS 1154     | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I | 5       |
| Advisor-approved Math Course |  | 3       |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 15**

**Spring**

|                          |  |   |
|--------------------------|--|---|
| BIOL 1330                | ENVIRONMENTAL BIOLOGY  | 3 |
| CHEM 1190<br>& CHEM 1194 | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY   | 4 |
| ENVN 2010                | ENVIRONMENTAL PROBLEMS AND<br>SOLUTIONS                          | 2 |
| PHYS 1120<br>& PHYS 1164 | PHYSICS FOR LIFE SCIENCE II<br>and GENERAL PHYSICS LABORATORY II | 5 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 14**

**Sophomore**

| Fall                                 |  |   |
|--------------------------------------|--|---|
| CHEM 2250                            | ORGANIC CHEMISTRY I                                    | 3 |
| CHEM 2400<br>& CHEM 2404             | QUANTITATIVE ANALYSIS<br>and QUANTITATIVE ANALYSIS LAB | 4 |
| CMST 1110<br>or CMST 2120            | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE   | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 16**

### Spring

|                                      |   |   |
|--------------------------------------|---|---|
| CHEM 2260<br>& CHEM 2274             | ORGANIC CHEMISTRY II<br>and ORGANIC CHEMISTRY<br>LABORATORY | 5 |
| CHEM 2500                            | INTRODUCTION TO INORGANIC<br>CHEMISTRY                      | 3 |
| GEOL 1010                            | ENVIRONMENTAL GEOLOGY                                       | 3 |
| General Education Course or Elective |   | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 14**

### Junior Fall

|                          |  |   |
|--------------------------|--|---|
| CHEM 3650<br>& CHEM 3654 | FUNDAMENTALS OF BIOCHEMISTRY<br>and FUNDAMENTALS OF<br>BIOCHEMISTRY LABORATORY | 4 |
|--------------------------|--|---|

Approved Statistics Course 3

General Education Course or Elective 3

General Education Course or Elective 3

An approved course focusing on the human dimensions of environmental studies 3

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 16**

### Spring

|                                      |                             |     |
|--------------------------------------|-----------------------------|-----|
| GEOL 1050                            | HUMAN-ENVIRONMENT GEOGRAPHY | 4   |
| Approved GIS Course                  |                             | 4   |
| Approved GEOL/GEOL/BIO/ENVN elective |                             | 3   |
| General Education Course or Elective |                             | 3   |
| Elective                             |                             | 1-3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15-17**

### Summer

|           |  |   |
|-----------|--|---|
| ENVN 4800 | INTERNSHIP IN ENVIRONMENTAL<br>MANAGEMENT AND PLANNING | 1 |
|-----------|--|---|

**Credits 1**

### Senior Fall

|                                      |   |   |
|--------------------------------------|---|---|
| ENVN/GEOL/GEOL/<br>BIOL 4610         | ENVIRONMENTAL MONITORING AND<br>ASSESSMENT (*)          | 3 |
| ENVN 4820                            | INTRODUCTION TO ENVIRONMENTAL<br>LAW & REGULATIONS (**) | 3 |
| Approved GEOL/GEOL/BIO/ENVN elective |   | 3 |

Approved GEOL/GEOL/BIO/ENVN elective 3

Elective 3

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

### Spring

|                          |  |   |
|--------------------------|--|---|
| BIOL 2440                | THE BIOLOGY OF MICROORGANISMS                                    | 4 |
| CHEM 3030                | ENVIRONMENTAL CHEMISTRY  | 3 |
| CHEM 4400<br>& CHEM 4404 | INSTRUMENTAL ANALYSIS<br>and INSTRUMENTAL ANALYSIS<br>LABORATORY | 4 |

Approved GEOL/GEOL/BIO/ENVN elective 3

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits 14**

**Total Credits 120-122**

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

# Environmental Science, Bachelor of Science with a Concentration in Earth Sciences

## Environmental Science, Bachelor of Science with a Concentration in Earth Sciences Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

#### Fundamental Skills 15

##### Writing – 6 hrs.

|           |                       |
|-----------|-----------------------|
| ENGL 1150 | ENGLISH COMPOSITION I |
|-----------|-----------------------|

|           |  |
|-----------|--|
| ENGL 1160 | COLLEGE RESEARCH AND<br>INFORMATION LITERACY |
|-----------|--|

##### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

##### Quantitative Literacy – 3 hrs.

|              |  |
|--------------|--|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                      |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE<br>PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                               |

##### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Environmental Science Major with a Concentration in Earth Sciences - 75-81 Hours Required

#### Required coursework 15-17

(Note that in the case of cross-listed courses, Environmental Science majors must enroll in the ENVN section)

|           |   |
|-----------|---|
| ENVN 2010 | ENVIRONMENTAL PROBLEMS AND<br>SOLUTIONS (^) |
|-----------|---|

|           |                            |
|-----------|----------------------------|
| BIOL 1330 | ENVIRONMENTAL BIOLOGY (**) |
|-----------|----------------------------|

|           |   |
|-----------|---|
| CHEM 1010 | CHEMISTRY IN THE ENVIRONMENT AND<br>SOCIETY (**^) |
|-----------|---|

|              |                         |
|--------------|-------------------------|
| or CHEM 3030 | ENVIRONMENTAL CHEMISTRY |
|--------------|-------------------------|

|                              |  |
|------------------------------|--|
| ENVN/GEOG/<br>GEOL/BIOL 4610 | ENVIRONMENTAL MONITORING AND<br>ASSESSMENT (^) |
|------------------------------|--|

|                |  |
|----------------|--|
| ENVN/BIOL 4800 | INTERNSHIP IN ENVIRONMENTAL<br>MANAGEMENT AND PLANNING (^) |
|----------------|--|

|                      |  |
|----------------------|--|
| ENVN/GEOG/PA<br>4820 | INTRODUCTION TO ENVIRONMENTAL<br>LAW & REGULATIONS (^) |
|----------------------|--|

#### Select one of the following Statistics courses 3-4

|           |   |
|-----------|---|
| BIOL 4110 | STATISTICS FOR BIOLOGICAL SCIENCES<br>(^) |
|-----------|---|

|           |  |
|-----------|--|
| ENVN 2020 | STATISTICS FOR LIFE AND<br>ENVIRONMENTAL SCIENCE (^) |
|-----------|--|

|           |                              |
|-----------|------------------------------|
| STAT 1530 | ELEMENTARY STATISTICS (** ^) |
|-----------|------------------------------|

|           |                           |
|-----------|---------------------------|
| STAT 3000 | STATISTICAL METHODS I (^) |
|-----------|---------------------------|

|           |   |
|-----------|---|
| PSYC 3130 | STATISTICS FOR THE BEHAVIORAL<br>SCIENCES (^) |
|-----------|---|

|          |                       |
|----------|-----------------------|
| SOC 2130 | SOCIAL STATISTICS (^) |
|----------|-----------------------|

#### Select one of the following GIS courses 1-4

|           |   |
|-----------|---|
| ENVN 4600 | GIS APPLICATIONS FOR<br>ENVIRONMENTAL SCIENCE (^) |
|-----------|---|

|           |  |
|-----------|--|
| GEOG 1090 | INTRODUCTION TO GEOSPATIAL<br>SCIENCES (^) |
|-----------|--|

|           |   |
|-----------|---|
| GEOG 4050 | GEOGRAPHIC INFORMATION SYSTEMS<br>I (^) |
|-----------|---|

#### Select one of the following courses on the human dimensions of Environmental Studies 3

|           |   |
|-----------|---|
| ANTH 4250 | ENVIRONMENTAL ANTHROPOLOGY<br>AND NATIVE PEOPLES OF THE GREAT<br>PLAINS (^) |
|-----------|---|

|           |  |
|-----------|--|
| ECON 3320 | ENVIRONMENTAL ECONOMICS AND<br>BUSINESS STRATEGY (^) |
|-----------|--|

|                |                          |
|----------------|--------------------------|
| ENVN/PHIL 3180 | ENVIRONMENTAL ETHICS (^) |
|----------------|--------------------------|

|                |   |
|----------------|---|
| ENVN/SPAN 3310 | SUSTAINABILITY AND THE<br>ENVIRONMENT IN THE SPANISH-<br>SPEAKING WORLD (^) |
|----------------|---|

|                |                                   |
|----------------|-----------------------------------|
| ENVN/PSCI 4270 | GLOBAL ENVIRONMENTAL POLITICS (^) |
|----------------|-----------------------------------|

|           |   |
|-----------|---|
| ENVN 4390 | THE NATURE OF THE PAST: AMERICAN<br>ENVIRONMENTAL HISTORY, PRE-<br>HISTORY TO THE PRESENT (^) |
|-----------|---|

|          |                             |
|----------|-----------------------------|
| SOC 4760 | ENVIRONMENTAL SOCIOLOGY (^) |
|----------|-----------------------------|

#### Earth Sciences Concentration 4

|           |  |
|-----------|--|
| GEOL 1170 | INTRODUCTION TO PHYSICAL GEOLOGY<br>(**) |
|-----------|--|

#### Select one of the following covering surface processes 4

|                |                           |
|----------------|---------------------------|
| GEOL/GEOG 4260 | PROCESS GEOMORPHOLOGY (^) |
|----------------|---------------------------|

|                |  |
|----------------|--|
| GEOL/GEOG 4330 | SOIL GENESIS, MORPHOLOGY AND<br>CLASSIFICATION |
|----------------|--|

|                |                       |
|----------------|-----------------------|
| GEOL/GEOG 4640 | CRITICAL ZONE SCIENCE |
|----------------|-----------------------|

#### Select an additional 27 hours of geography/geology/ environmental science courses from the following 27

|                |                                       |
|----------------|---------------------------------------|
| ENVN/BIOL 4410 | WETLAND ECOLOGY AND<br>MANAGEMENT (^) |
|----------------|---------------------------------------|

|           |   |
|-----------|---|
| GEOL 1180 | INTRODUCTION TO HISTORICAL<br>GEOLOGY (^) |
|-----------|---|

|           |  |
|-----------|--|
| GEOL 2300 | GEOSCIENCE DATA ANALYSIS AND<br>MODELING (^) |
|-----------|--|

|           |   |
|-----------|---|
| GEOL 2500 | SPECIAL TOPICS IN GEOGRAPHY-<br>GEOLOGY |
|-----------|---|

|                          |   |
|--------------------------|---|
| GEOL 2750<br>& GEOL 2754 | MINERALOGY<br>and MINERALOGY LABORATORY (^) |
|--------------------------|---|

|  |  |           |
|--|--|-----------|
| GEOL 2760<br>& GEOL 2764   | IGNEOUS AND METAMORPHIC<br>PETROLOGY<br>and IGNEOUS AND METAMORPHIC<br>PETROLOGY LABORATORY (^)    |           |
| GEOL 3300<br>& GEOL 3310   | STRUCTURAL GEOLOGY<br>and STRUCTURAL GEOLOGY FIELD<br>METHODS (^)                                  |           |
| GEOL 3400  | INTRODUCTION TO SEDIMENTARY<br>GEOLOGY (^)   |           |
| GEOL/GEOG 4200   | WATER QUALITY (^)  |           |
| GEOL/GEOG 4260   | PROCESS GEOMORPHOLOGY (^)  |           |
| GEOL/PHYS 4400   | GEOPHYSICS (^)   |           |
| GEOL/GEOG 4640   | CRITICAL ZONE SCIENCE (^)  |           |
| GEOG 3510  | METEOROLOGY (**)   |           |
| GEOG 4010  | CONSERVATION OF NATURAL<br>RESOURCES (^)   |           |
| GEOL/BIOG/GEOL<br>4100   | BIOGEOGRAPHY (^)   |           |
| GEOG 4320  | CLIMATOLOGY (^)  |           |
| GEOL/GEOG 4330   | SOIL GENESIS, MORPHOLOGY AND<br>CLASSIFICATION (^)   |           |
| GEOG/ENVN 4350   | GLOBAL CLIMATE CHANGE (^)  |           |
| GEOG 4630  | ENVIRONMENTAL REMOTE SENSING (^)   |           |
| <b>Select one of the following chemistry sequences</b>                             |  | <b>13</b> |
| Sequence One   |  |           |
| CHEM 1140<br>& CHEM 1144   | FUNDAMENTALS OF COLLEGE<br>CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE<br>CHEMISTRY LABORATORY (** ^) |           |
| CHEM 2210<br>& CHEM 2214   | FUNDAMENTALS OF ORGANIC<br>CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC<br>CHEMISTRY LABORATORY (^)    |           |
| GEOL/CHEM 4540   | GEOCHEMISTRY (^)   |           |
| Sequence Two   |  |           |
| CHEM 1180<br>& CHEM 1184   | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY (** ^)                                |           |
| CHEM 1190<br>& CHEM 1194   | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY (^)                                 |           |
| CHEM 2210<br>& CHEM 2214   | FUNDAMENTALS OF ORGANIC<br>CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC<br>CHEMISTRY LABORATORY (^)    |           |
| <b>Select one of the following physics lecture and<br/>laboratory combinations</b> |  | <b>5</b>  |
| PHYS 1050<br>& PHYS 1054   | INTRODUCTION TO PHYSICS<br>and INTRODUCTION TO PHYSICS<br>LABORATORY (** ^)                        |           |
| PHYS 1110<br>& PHYS 1154   | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I<br>(** ^)                           |           |
| PHYS 2110<br>& PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY I<br>(** ^)                   |           |
| <b>College Breadth</b>   |  | <b>0</b>  |
| College of Arts and Sciences' breadth requirement satisfied by<br>this major       |  |           |
| <b>Bachelor of Science Cognate Requirement</b>                                     |  | <b>0</b>  |
| See major.   |  |           |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Environmental Science, Bachelor of Science with a Concentration in Earth Sciences Four Year Plan

**Freshman**

| <b>Fall</b>  |  | <b>Credits</b> |
|--|--|----------------|
| BIOL 1330  | ENVIRONMENTAL BIOLOGY                              | 3              |
| CHEM 1010  | CHEMISTRY IN THE ENVIRONMENT AND<br>SOCIETY        | 3              |
| ENGL 1150  | ENGLISH COMPOSITION I                              | 3              |
| MATH 1300<br>or MATH 1320  | COLLEGE ALGEBRA WITH SUPPORT<br>or COLLEGE ALGEBRA | 3-4            |
| General Education Course or Elective   |  | 3              |
| Attend Durango Days; other campus events. Set up a<br>Handshake account and take the Pathway U career<br>assessment. Attend the Student Involvement & Volunteer<br>Fair to explore student organizations. Make advising<br>appointment for spring: Sept-Oct. Work with your advisor to<br>develop your Pathway in Stellic. |  |                |

**Credits** **15-16****Spring**

|   |  |   |
|---|--|---|
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3 |
| ENGL 1160   | COLLEGE RESEARCH AND<br>INFORMATION LITERACY         | 3 |
| ENVN 2010   | ENVIRONMENTAL PROBLEMS AND<br>SOLUTIONS              | 2 |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY                     | 4 |
| General Education Course or Elective  |  | 3 |
| Attend campus events such as major exploration week to get<br>an idea of interests and career paths. Schedule a resume<br>review with UNO Career Services. Visit faculty office hours<br>and ask about undergraduate research opportunities. Make<br>advising appointment for summer and fall: February –<br>March. |  |   |

**Credits** **15****Sophomore**

| <b>Fall</b>  |   |   |
|--|---|---|
| CHEM 1140<br>& CHEM 1144   | FUNDAMENTALS OF COLLEGE<br>CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE<br>CHEMISTRY LABORATORY | 5 |
| Approved GEOG/GEOL/ENVN Elective   |   | 3 |
| Approved GEOG/GEOL/ENVN Elective   |   | 4 |
| General Education Course or Elective   |   | 3 |
| Attend the Career & Internship Fair to start networking with<br>employers. Look for volunteer, research, or part-time work to<br>gain experience. Join a student organization or club related<br>to your field or interests. Make advising appointment for<br>spring: Sept. - Oct. |   |   |

**Credits** **15****Spring**

|                                  |   |   |
|----------------------------------|---|---|
| CHEM 2210<br>& CHEM 2214         | FUNDAMENTALS OF ORGANIC<br>CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC<br>CHEMISTRY LABORATORY | 5 |
| Approved GEOG/GEOL/ENVN Elective |   | 4 |



|  |           |
|--|-----------|
| Approved GEOG/GEOL/ENVN Elective   | 3         |
| General Education Course or Elective   | 3         |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |           |
| <b>Credits</b>   | <b>15</b> |

**Junior****Fall**

|                                      |              |   |
|--------------------------------------|--------------|---|
| GEOG 4540                            | GEOCHEMISTRY | 3 |
| Approved GIS Course                  |              | 4 |
| Approved GEOG/GEOL/ENVN Elective     |              | 4 |
| General Education Course or Elective |              | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **14**

**Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| PHYS 1050                            | INTRODUCTION TO PHYSICS                | 5 |
| & PHYS 1054                          | and INTRODUCTION TO PHYSICS LABORATORY |   |
| Approved GEOG/GEOL/ENVN Elective     |  | 4 |
| General Education Course or Elective |  | 3 |
| Elective                             |  | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Summer**

|           |   |   |
|-----------|---|---|
| ENVN 4800 | INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING | 1 |
|-----------|---|---|

**Credits** **1**

**Senior****Fall**

|                                  |   |   |
|----------------------------------|---|---|
| ENVN/GEOG/GEOL/BIOL 4610         | ENVIRONMENTAL MONITORING AND ASSESSMENT         | 3 |
| ENVN 4820                        | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS | 3 |
| Approved GEOG/GEOL/ENVN Elective |   | 3 |
| Approved GEOG/GEOL/ENVN Elective |   | 3 |
| Elective course                  |   | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|  |   |
|--|---|
| Approved GEOG/GEOL/ENVN Elective   | 3 |
| Statistics course  | 3 |
| An approved course focusing on the human dimensions of environmental studies | 3 |
| Elective course  | 3 |

|  |   |
|--|---|
| Elective   | 3 |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |   |

**Credits** **15**

**Total Credits** **120-121**

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Environmental Science, Bachelor of Science with a Concentration in Geography and Planning

### Environmental Science, Bachelor of Science with a Concentration in Geography and Planning Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |



|   |   |
|---|---|
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING           |
| or MATH 1130  | QUANTITATIVE LITERACY   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS               |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                      |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                                   |
| STAT 1530   | ELEMENTARY STATISTICS   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge 13</b>  |   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility 6</b>   |   |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>Environmental Science Major with a Geography and Planning - 71-82 Hours Required</b>   |   |
| <b>Required coursework 12-14</b>  |   |
| (Note that in the case of cross-listed courses, Environmental Science majors must enroll in the ENVN section)   |   |
| ENVN 2010   | ENVIRONMENTAL PROBLEMS AND SOLUTIONS (^)                          |
| ENVN/GEOG/GEOL/BIOL 4610  | ENVIRONMENTAL MONITORING AND ASSESSMENT                           |
| GEOL 1010   | ENVIRONMENTAL GEOLOGY (**)  |
| ENVN/BIOL 4800  | INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING               |
| ENVN/GEOG/PA 4820   | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS                   |
| <b>Select one of the following Statistics courses 3-4</b>   |   |
| BIOL 4110   | STATISTICS FOR BIOLOGICAL SCIENCES (^)                            |
| ENVN 2020   | STATISTICS FOR LIFE AND ENVIRONMENTAL SCIENCE                     |
| STAT 1530   | ELEMENTARY STATISTICS (** ^)                                      |
| STAT 3000   | STATISTICAL METHODS I (^)   |
| PSYC 3130   | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)                        |
| SOC 2130  | SOCIAL STATISTICS (^)   |
| <b>Select one of the following courses on the Human Dimensions of Environmental Studies 3</b>   |   |
| ANTH 4250   | ENVIRONMENTAL ANTHROPOLOGY AND NATIVE PEOPLES OF THE GREAT PLAINS |
| ECON 3320   | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY                     |
| ENVN/PHIL 3180  | ENVIRONMENTAL ETHICS (^)  |
| ENVN/SPAN 3310  | SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD  |
| ENVN/PSCI 4270  | GLOBAL ENVIRONMENTAL POLITICS (^)                                 |

|  |   |
|--|---|
| ENVN 4390  | THE NATURE OF THE PAST: AMERICAN ENVIRONMENTAL HISTORY, PRE-HISTORY TO THE PRESENT                      |
| SOC 4760   | ENVIRONMENTAL SOCIOLOGY (^)   |
| <b>Introductory GIS lecture and lab 4</b>  |   |
| GEOG 3530  | CARTOGRAPHY AND DATA VISUALIZATION (^)  |
| <b>Geography and Planning Concentration requirements:</b>  |   |
| <b>Select one physical geography course from the following 4</b>   |   |
| GEOG 1030  | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)   |
| GEOG 1050  | HUMAN-ENVIRONMENT GEOGRAPHY (**)  |
| <b>Select three courses from the following in Human Geography and Planning 9</b>                                   |   |
| GEOG 1020  | INTRODUCTION TO HUMAN GEOGRAPHY (**)  |
| GEOG 4120  | URBAN GEOGRAPHY   |
| GEOG 4160  | URBAN SUSTAINABILITY  |
| ENVN 4330  | INTRODUCTION TO GREEN INFRASTRUCTURE  |
| Or alternative courses approved by advisor.  |   |
| <b>Select three courses in Physical Geography 9-12</b>   |   |
| GEOL/GEOG 4200   | WATER QUALITY   |
| GEOG 3440  | NEBRASKA NATURAL RESOURCES MANAGMENT  |
| GEOG 3510 & GEOG 3514  | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (**) <sup>1</sup>                                |
| GEOG/BIOL/GEOL 4100  | BIOGEOGRAPHY (^)  |
| GEOG/GEOL 4260   | PROCESS GEOMORPHOLOGY   |
| GEOG 4320  | CLIMATOLOGY   |
| GEOG/GEOL 4330   | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION   |
| GEOG 4340  | WATER RESOURCES   |
| GEOG/ENVN 4350   | GLOBAL CLIMATE CHANGE   |
| GEOG/GEOL 4640   | CRITICAL ZONE SCIENCE   |
| <sup>1</sup> Both GEOG 3510 and GEOG 3514 must be completed and count as a single course towards this requirement. |   |
| <b>Select two additional courses in Geospatial Sciences 6-8</b>  |   |
| GEOG 4020  | SPATIAL ANALYSIS IN GEOGRAPHY   |
| GEOG 4030  | COMPUTER MAPPING AND VISUALIZATION (^)  |
| GEOG 4050  | GEOGRAPHIC INFORMATION SYSTEMS I (^)  |
| GEOG 4630  | ENVIRONMENTAL REMOTE SENSING (^)  |
| GEOG 4660  | GEOGRAPHIC INFORMATION SYSTEMS II (^)   |
| <b>Required courses: 7</b>   |   |
| BIOL 1330  | ENVIRONMENTAL BIOLOGY (**)  |
| CHEM 1010 & CHEM 1014  | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY and CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (** ^) |
| <b>Select one computer science course from the following 3</b>   |   |
| CIST 1300  | INTRODUCTION TO WEB DEVELOPMENT   |
| ISQA 3310  | MANAGING THE DATABASE ENVIRONMENT (^)   |

**Select two additional courses in Biology from the following 6-9**

|                |  |
|----------------|--|
| BIOL 1020      | PRINCIPLES OF BIOLOGY (**)                 |
| BIOL 3340      | ECOLOGY (^)                                |
| BIOL 3530      | FLORA OF THE GREAT PLAINS (^)              |
| BIOL 4120      | CONSERVATION BIOLOGY (^)                   |
| BIOL 4180      | FRESHWATER ECOLOGY (^)                     |
| BIOL 4210      | FIRE ECOLOGY (^)                           |
| BIOL/ENVN 4410 | WETLAND ECOLOGY AND MANAGEMENT             |
| ENVN 3030      | MICROBIAL ECOLOGY                          |
| ENVN 4320      | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH |

**Physics lecture and lab: 5**

|                          |   |
|--------------------------|---|
| PHYS 1050<br>& PHYS 1054 | INTRODUCTION TO PHYSICS<br>and INTRODUCTION TO PHYSICS<br>LABORATORY (** ^) |
|--------------------------|---|

**College Breadth 0**

College of Arts and Sciences' breadth requirement satisfied by this major

**Bachelor of Science Cognate Requirement 0**

See major.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Environmental Science, Bachelor of Science with a Concentration in Geography and Planning Four Year Plan

**Freshman**

| Fall  |  | Credits      |
|---|--|--------------|
| BIOL 1330   | ENVIRONMENTAL BIOLOGY                              | 3            |
| ENGL 1150   | ENGLISH COMPOSITION I                              | 3            |
| GEOG 1020   | INTRODUCTION TO HUMAN GEOGRAPHY (**)               | 3            |
| MATH 1300<br>or MATH 1320   | COLLEGE ALGEBRA WITH SUPPORT<br>or COLLEGE ALGEBRA | 3-4          |
| General Education Course or Elective  |  | 3            |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellar. |  |              |
| <b>Credits</b>  |  | <b>15-16</b> |

**Spring**

|                           |  |   |
|---------------------------|--|---|
| CHEM 1010<br>& CHEM 1014  | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY<br>and CHEMISTRY IN THE ENVIRONMENT<br>AND SOCIETY LABORATORY | 4 |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE   | 3 |
| ENGL 1160                 | COLLEGE RESEARCH AND INFORMATION LITERACY  | 3 |
| ENVN 2010                 | ENVIRONMENTAL PROBLEMS AND SOLUTIONS (***)   | 2 |

|                           |   |   |
|---------------------------|---|---|
| GEOG 1030<br>or GEOG 1050 | OUR DYNAMIC PLANET:<br>INTRODUCTION TO PHYSICAL<br>GEOGRAPHY<br>or HUMAN-ENVIRONMENT<br>GEOGRAPHY | 4 |
|---------------------------|---|---|

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 16****Sophomore****Fall**

|  |   |   |
|--|---|---|
| GEOG 1010  | ENVIRONMENTAL GEOLOGY   | 3 |
| CIST 1300<br>or ISQA 3310                                | INTRODUCTION TO WEB DEVELOPMENT<br>or MANAGING THE DATABASE<br>ENVIRONMENT  | 3 |
| STAT 3000<br>or PSYC 3130<br>or SOC 2130<br>or STAT 1530 | STATISTICAL METHODS I<br>or STATISTICS FOR THE BEHAVIORAL<br>SCIENCES<br>or SOCIAL STATISTICS<br>or ELEMENTARY STATISTICS | 3 |

General Education Course or Elective 3

General Education Course or Elective 3

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15****Spring**

|  |                                       |   |
|--|---------------------------------------|---|
| BIOL 1020  | PRINCIPLES OF BIOLOGY                 | 4 |
| GEOG 3530  | CARTOGRAPHY AND DATA<br>VISUALIZATION | 4 |
| Approved Physical Geography course   |                                       | 3 |
| Approved Physical Geography course   |                                       | 3 |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                                       |   |

**Credits 14****Junior****Fall**

|  |  |   |
|--|--|---|
| Approved Geospatial Science course         |  | 4 |
| Approved Physical Geography course         |  | 4 |
| Approved Human Geography & Planning course |  | 4 |
| General Education Course or Elective       |  | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15****Spring**

|                                    |  |   |
|------------------------------------|--|---|
| PHYS 1050<br>& PHYS 1054           | INTRODUCTION TO PHYSICS<br>and INTRODUCTION TO PHYSICS<br>LABORATORY (**, ***) | 5 |
| Approved Geospatial Science course |  | 4 |

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
| Elective                             | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

#### Summer

|           |   |     |
|-----------|---|-----|
| ENVN 4800 | INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING | 1-3 |
|-----------|---|-----|

**Credits** **1-3**

#### Senior

##### Fall

|                          |   |   |
|--------------------------|---|---|
| ENVN/GEOL/GEOL/BIOL 4610 | ENVIRONMENTAL MONITORING AND ASSESSMENT | 3 |
|--------------------------|---|---|

|           |  |   |
|-----------|--|---|
| ENVN 4820 | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (**) | 3 |
|-----------|--|---|

|  |   |
|--|---|
| Approved Human Geography & Planning course | 3 |
|--|---|

|  |   |
|--|---|
| An approved course focusing on the human dimensions of environmental studies | 3 |
|--|---|

|          |   |
|----------|---|
| Elective | 3 |
|----------|---|

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

##### Spring

|                         |   |
|-------------------------|---|
| Approved Biology course | 3 |
|-------------------------|---|

|          |   |
|----------|---|
| Elective | 3 |
|----------|---|

|          |   |
|----------|---|
| Elective | 3 |
|----------|---|

|          |   |
|----------|---|
| Elective | 2 |
|----------|---|

|                 |   |
|-----------------|---|
| Elective course | 3 |
|-----------------|---|

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **14**

**Total Credits** **120-123**

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Environmental Science, Bachelor of Science with a Concentration in Life Science

### Environmental Science, Bachelor of Science with a Concentration in Life Sciences Requirements

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |

Minimum of "C-" required

**Fundamental Skills** **15**

#### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

#### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

#### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility** **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Environmental Science Major with a Concentration in Life Sciences - 74-87 Hours Required**

**Required coursework** **16-18**

(Note that in the case of cross-listed courses, Environmental Science majors must enroll in the ENVN section)

|                     |   |
|---------------------|---|
| ENVN 2010           | ENVIRONMENTAL PROBLEMS AND SOLUTIONS (^)                |
| GEOL 1010           | ENVIRONMENTAL GEOLOGY (**)                              |
| GEOG 1050           | HUMAN-ENVIRONMENT GEOGRAPHY (**)                        |
| ENVN/GEOL/BIOL 4610 | ENVIRONMENTAL MONITORING AND ASSESSMENT (^)             |
| ENVN/BIOL 4800      | INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING (^) |
| ENVN/GEOG 4820      | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)     |

**Select one of the following Statistics courses 3-4**

|           |   |
|-----------|---|
| BIOL 4110 | STATISTICS FOR BIOLOGICAL SCIENCES (^)            |
| ENVN 2020 | STATISTICS FOR LIFE AND ENVIRONMENTAL SCIENCE (^) |
| STAT 1530 | ELEMENTARY STATISTICS (** ^)                      |
| STAT 3000 | STATISTICAL METHODS I (^)                         |
| PSYC 3130 | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)        |
| SOC 2130  | SOCIAL STATISTICS (^)                             |

**Select one of the following GIS courses 1-4**

|           |  |
|-----------|--|
| ENVN 4600 | GIS APPLICATIONS FOR ENVIRONMENTAL SCIENCE (^) |
| GEOG 1090 | INTRODUCTION TO GEOSPATIAL SCIENCES (** ^)     |
| GEOG 3530 | CARTOGRAPHY AND DATA VISUALIZATION (^)         |
| GEOG 4050 | GEOGRAPHIC INFORMATION SYSTEMS I (^)           |

**Select one of the following courses on the Human Dimensions of Environmental Studies 3**

|                |  |
|----------------|--|
| ANTH 4250      | ENVIRONMENTAL ANTHROPOLOGY AND NATIVE PEOPLES OF THE GREAT PLAINS (^)                  |
| ECON 3320      | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^)                                      |
| ENVN/PHIL 3180 | ENVIRONMENTAL ETHICS (^)   |
| ENVN/SPAN 3310 | SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD (^)                   |
| ENVN/PSCI 4270 | GLOBAL ENVIRONMENTAL POLITICS (^)  |
| ENVN 4390      | THE NATURE OF THE PAST: AMERICAN ENVIRONMENTAL HISTORY, PRE-HISTORY TO THE PRESENT (^) |
| SOC 4760       | ENVIRONMENTAL SOCIOLOGY (^)  |

**Life Sciences Concentration**

**All of the following: 25**

|           |                               |
|-----------|-------------------------------|
| BIOL 1450 | BIOLOGY I (** ^)              |
| BIOL 1750 | BIOLOGY II (^)                |
| BIOL 2140 | GENETICS (^)                  |
| BIOL 3340 | ECOLOGY (^)                   |
| BIOL 3530 | FLORA OF THE GREAT PLAINS (^) |
| BIOL 4120 | CONSERVATION BIOLOGY (^)      |

**Select three additional upper division courses in Biology or Environmental Science from the approved list below). At least two courses must include a lab 10-12**

|           |                                   |
|-----------|-----------------------------------|
| BIOL 3020 | MOLECULAR BIOLOGY OF THE CELL (^) |
|-----------|-----------------------------------|

|                     |   |
|---------------------|---|
| BIOL 3680           | BIOLOGY OF AFRICA (^)                               |
| BIOL 3730           | FAUNA OF THE GREAT PLAINS (^)                       |
| BIOL 4030           | SPECIAL TOPICS IN BIOLOGY (^)                       |
| BIOL 4040           | DIRECTED READINGS IN BIOLOGY (^) <sup>1</sup>       |
| BIOL 4050           | SUPERVISED RESEARCH IN BIOLOGY (^) <sup>1</sup>     |
| BIOL/GEOG/GEOL 4100 | BIOGEOGRAPHY (^)                                    |
| BIOL 4110           | STATISTICS FOR BIOLOGICAL SCIENCES (^) <sup>2</sup> |
| BIOL/ENVN 4180      | FRESHWATER ECOLOGY (^)                              |
| BIOL 4210           | FIRE ECOLOGY (^)                                    |
| BIOL 4220           | POPULATION BIOLOGY (^)                              |
| BIOL 4230           | EVOLUTION (^)                                       |
| BIOL 4240           | MARINE BIOLOGY (^)                                  |
| BIOL 4260           | BEHAVIORAL ECOLOGY (^)                              |
| BIOL/ENVN 4410      | WETLAND ECOLOGY AND MANAGEMENT (^)                  |
| BIOL 4420           | RESTORATION ECOLOGY (^)                             |
| BIOL 4490           | MEDICINAL USES OF PLANTS (^)                        |
| BIOL 4540           | PRINCIPLES OF SYSTEMATICS (^)                       |
| BIOL 4710           | TOXICOLOGY (^)                                      |
| BIOL 4780           | VERTEBRATE ZOOLOGY (^)                              |
| BIOL 4790           | MAMMALOGY (^)                                       |
| BIOL 4840           | HERPETOLOGY (^)                                     |
| BIOL 4940           | ENTOMOLOGY (^)                                      |
| BIOL/ENVN 4970      | ADVANCED BOTANY (^)                                 |
| BIOL 4980           | ORNITHOLOGY (^)                                     |
| ENVN/BIOL 3030      | MICROBIAL ECOLOGY                                   |
| ENVN 4320           | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH (^)      |

1 With approval from the Environmental Studies Program

2 May be used to satisfy the statistics requirement or can count towards the required biology and environmental Science courses, but not both.

**Required chemistry courses: 3**

|              |   |
|--------------|---|
| CHEM 1010    | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY (** ^) |
| or CHEM 3030 | ENVIRONMENTAL CHEMISTRY                         |

**In addition, select one of the following chemistry sequences 10-13**

Sequence One:

|                       |   |
|-----------------------|---|
| CHEM 1140 & CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) |
| CHEM 2210 & CHEM 2214 | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)    |

Sequence Two:

|                       |   |
|-----------------------|---|
| CHEM 1180 & CHEM 1184 | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^) |
| CHEM 1190 & CHEM 1194 | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)  |

|   |  |            |
|---|--|------------|
| CHEM 2210<br>& CHEM 2214  | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^) |            |
| <b>Complete one additional approved physical science course in Chemistry, Geology, Physical Geography, or Physics</b> |  | <b>3-5</b> |
| CHEM 3650<br>& CHEM 3654  | FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)           |            |
| PHYS 1050<br>& PHYS 1054  | INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY (** ^)                  |            |
| PHYS 1110   | PHYSICS FOR LIFE SCIENCE I (** ^)  |            |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY (**)  |            |
| GEOL 2300   | GEOSCIENCE DATA ANALYSIS AND MODELING (^)  |            |
| GEOL/GEOG 4200  | WATER QUALITY (^)  |            |
| GEOL/GEOG 4260  | PROCESS GEOMORPHOLOGY (^)  |            |
| GEOL/GEOG 4330  | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)  |            |
| GEOL/CHEM 4540  | GEOCHEMISTRY (^)   |            |
| GEOL/GEOG 4640  | CRITICAL ZONE SCIENCE (^)  |            |
| GEOG 4010   | CONSERVATION OF NATURAL RESOURCES (^)  |            |
| GEOG 4320   | CLIMATOLOGY (^)  |            |
| GEOG 4340   | WATER RESOURCES (^)  |            |
| GEOG/ENVN 4350  | GLOBAL CLIMATE CHANGE (^)  |            |
| GEOG 4630   | ENVIRONMENTAL REMOTE SENSING (^)   |            |

**College Breadth** **0**

College of Arts and Sciences' breadth requirement satisfied by this major

**Bachelor of Science Cognate Requirement** **0**

See major.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Environmental Science, Bachelor of Science with a Concentration in Life Sciences Four Year Plan

**Freshman**

| <b>Fall</b>               |  | <b>Credits</b> |
|---------------------------|--|----------------|
| BIOL 1450                 | BIOLOGY I  | 5              |
| ENGL 1150                 | ENGLISH COMPOSITION I                              | 3              |
| GEOG 1050                 | HUMAN-ENVIRONMENT GEOGRAPHY                        | 4              |
| MATH 1300<br>or MATH 1320 | COLLEGE ALGEBRA WITH SUPPORT<br>or COLLEGE ALGEBRA | 3-4            |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

| <b>Credits</b>            |  | <b>15-16</b> |
|---------------------------|--|--------------|
| <b>Spring</b>             |  |              |
| BIOL 1750                 | BIOLOGY II   | 5            |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3            |

|           |   |   |
|-----------|---|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| ENVN 2010 | ENVIRONMENTAL PROBLEMS AND SOLUTIONS      | 2 |
| CHEM 1010 | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY  | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits** **16****Sophomore****Fall**

|                          |  |   |
|--------------------------|--|---|
| CHEM 1140<br>& CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY | 5 |
| GEOG 1090                | INTRODUCTION TO GEOSPATIAL SCIENCES  | 4 |

General Education Course or Elective 3

General Education Course or Elective 3

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits** **15****Spring**

|                          |  |   |
|--------------------------|--|---|
| BIOL 2140                | GENETICS   | 4 |
| CHEM 2210<br>& CHEM 2214 | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY | 5 |
| GEOL 1010                | ENVIRONMENTAL GEOLOGY  | 3 |

General Education Course or Elective 3

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits** **15****Junior****Fall**

|  |   |
|--|---|
| Approved BIOL/ENVN 3000/4000 Level elective with lab | 4 |
| Approved Statistics Course                           | 3 |
| General Education Course or Elective                 | 3 |
| General Education Course or Elective                 | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **13****Spring**

|                                      |                      |   |
|--------------------------------------|----------------------|---|
| BIOL 3340                            | ECOLOGY              | 4 |
| BIOL 4120                            | CONSERVATION BIOLOGY | 3 |
| General Education Course or Elective |                      | 3 |
| Elective                             |                      | 3 |



|  |                |
|--|----------------|
| Elective   | 3              |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |                |
| <b>Credits</b>   | <b>16</b>      |
| <b>Summer</b>  |                |
| ENVN 4800  | 1              |
| INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING  |                |
| <b>Credits</b>   | <b>1</b>       |
| <b>Senior</b>  |                |
| <b>Fall</b>  |                |
| BIOL 3530  | 4              |
| ENVN 4610  | 3              |
| FLORA OF THE GREAT PLAINS  |                |
| ENVIRONMENTAL MONITORING AND ASSESSMENT  |                |
| ENVN 4820  | 3              |
| INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS  |                |
| Approved BIOL/ENVN 3000/4000 Level elective  | 3              |
| Approved physical science course   | 3              |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.     |                |
| <b>Credits</b>   | <b>16</b>      |
| <b>Spring</b>  |                |
| Approved BIOL/ENVN 3000/4000 Level elective  | 4              |
| An approved course focusing on the human dimensions of environmental studies   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.   |                |
| <b>Credits</b>   | <b>13</b>      |
| <b>Total Credits</b>   | <b>120-121</b> |

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Environmental Science Minor

### Environmental Science Minor Requirements

| Code   | Title  | Credits    |
|--|--|------------|
| <b>Required courses:</b>   |  |            |
| ENVN 2010  | ENVIRONMENTAL PROBLEMS AND SOLUTIONS   | 2          |
| <b>Select one course from the following:</b>   |  | <b>3-4</b> |
| BIOL 1330  | ENVIRONMENTAL BIOLOGY  |            |
| CHEM 1010  | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY   |            |
| GEOG 1050  | HUMAN-ENVIRONMENT GEOGRAPHY  |            |
| GEOL 1010  | ENVIRONMENTAL GEOLOGY  |            |
| <b>Select 12 credit hours from the following, provided those courses are not in the major field of study, and are approved by the Director of Environmental Studies:</b> |  | <b>12</b>  |
| <b>Environmental Studies</b>   |  |            |
| ENVN/BIOL 3030   | MICROBIAL ECOLOGY  |            |
| ENVN/PHIL 3180   | ENVIRONMENTAL ETHICS   |            |
| ENVN/SPAN 3310   | SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD                   |            |
| ENVN 4090  | SPECIAL TOPICS IN ENVIRONMENTAL STUDIES  |            |
| ENVN/BIOL 4180   | FRESHWATER ECOLOGY   |            |
| ENVN/PSCI 4270   | GLOBAL ENVIRONMENTAL POLITICS  |            |
| ENVN 4310  | OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY                     |            |
| ENVN 4320  | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH   |            |
| ENVN 4330  | INTRODUCTION TO GREEN INFRASTRUCTURE   |            |
| ENVN/GEOG 4350   | GLOBAL CLIMATE CHANGE  |            |
| ENVN/HIST/SUST 4390  | THE NATURE OF THE PAST: AMERICAN ENVIRONMENTAL HISTORY, PRE-HISTORY TO THE PRESENT |            |
| ENVN/BIOL 4410   | WETLAND ECOLOGY AND MANAGEMENT   |            |
| ENVN/BIOL 4420   | RESTORATION ECOLOGY  |            |
| ENVN/BIOL 4600   | GIS APPLICATIONS FOR ENVIRONMENTAL SCIENCE   |            |
| ENVN/GEOG/GEOL/BIOL 4610   | ENVIRONMENTAL MONITORING AND ASSESSMENT  |            |
| ENVN/BIOL 4800   | INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING                                |            |
| ENVN/BIOL/PA 4820  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS                                    |            |
| ENVN/BIOL 4970   | ADVANCED BOTANY  |            |
| <b>Biology</b>   |  |            |
| BIOL 3340  | ECOLOGY  |            |
| BIOL 3530  | FLORA OF THE GREAT PLAINS  |            |
| BIOL 3730  | FAUNA OF THE GREAT PLAINS  |            |



|                |                          |
|----------------|--------------------------|
| BIOL 4120      | CONSERVATION BIOLOGY     |
| BIOL/ENVN 4180 | FRESHWATER ECOLOGY       |
| BIOL 4210      | FIRE ECOLOGY             |
| BIOL 4490      | MEDICINAL USES OF PLANTS |
| BIOL 4780      | VERTEBRATE ZOOLOGY       |
| BIOL 4790      | MAMMALOGY                |
| BIOL 4840      | HERPETOLOGY              |
| BIOL 4940      | ENTOMOLOGY               |
| BIOL 4980      | ORNITHOLOGY              |

**Chemistry**

|                |                         |
|----------------|-------------------------|
| CHEM 3030      | ENVIRONMENTAL CHEMISTRY |
| CHEM/GEOL 4540 | GEOCHEMISTRY            |

**Geography**

|                        |  |
|------------------------|--|
| GEOG 3440              | NEBRASKA NATURAL RESOURCES<br>MANAGEMENT       |
| GEOG 3510              | METEOROLOGY                                    |
| GEOG 3514              | INTRODUCTION TO METEOROLOGY<br>LABORATORY      |
| GEOG 4010              | CONSERVATION OF NATURAL<br>RESOURCES           |
| GEOG 4020              | SPATIAL ANALYSIS IN GEOGRAPHY                  |
| GEOG 4050              | GEOGRAPHIC INFORMATION SYSTEMS I               |
| GEOG/BIOL/GEOL<br>4100 | BIOGEOGRAPHY                                   |
| GEOG 4160              | URBAN SUSTAINABILITY                           |
| GEOG 4230              | GREAT PLAINS & NEBRASKA                        |
| GEOG/GEOL 4260         | PROCESS GEOMORPHOLOGY                          |
| GEOG 4320              | CLIMATOLOGY                                    |
| GEOG/GEOL 4330         | SOIL GENESIS, MORPHOLOGY AND<br>CLASSIFICATION |
| GEOG 4340              | WATER RESOURCES                                |
| GEOG/ENVN 4350         | GLOBAL CLIMATE CHANGE                          |
| GEOG 4630              | ENVIRONMENTAL REMOTE SENSING                   |

**Geology**

|                          |   |
|--------------------------|---|
| GEOL 3300<br>& GEOL 3310 | STRUCTURAL GEOLOGY<br>and STRUCTURAL GEOLOGY FIELD<br>METHODS |
| GEOL 3400                | INTRODUCTION TO SEDIMENTARY<br>GEOLOGY                        |
| GEOL/GEOG 4200           | WATER QUALITY   |
| GEOL/GEOG 4260           | PROCESS GEOMORPHOLOGY   |
| GEOL/GEOG 4330           | SOIL GENESIS, MORPHOLOGY AND<br>CLASSIFICATION                |
| GEOL/CHEM 4540           | GEOCHEMISTRY  |
| GEOL/GEOG 4640           | CRITICAL ZONE SCIENCE   |

**Society, Environment and Resource Conservation**

|          |                         |
|----------|-------------------------|
| SOC 4760 | ENVIRONMENTAL SOCIOLOGY |
|----------|-------------------------|

**Total Credits****17-18**

## General Science

The Bachelor of Science in General Science is available with or without a concentration. Without a concentration, the major includes coursework from multiple disciplines—biology, chemistry, physics, mathematics, geography, and geology—making it ideal for students who prefer a broad scientific foundation rather than specializing in a single field.

For students planning to apply to UNMC's Medical Laboratory Science program, the Medical Laboratory Science concentration offers more focused coursework tailored to meeting program prerequisites. This

option also allows students to earn a dual degree upon completing their professional program at UNMC.

## Contact

Arts and Sciences Advising Center  
220 ASH  
402.554.2458

## Degrees Offered

- General Science, Bachelor of Science (p. 136)

All coursework taken for the General Science major must be completed with a grade of "C-" or better.

The General Science major provides students with a broad scientific foundation while developing essential mathematics and science skills. Although few students choose this major initially, many transition to it after discovering that their original science major requires a degree of specialization beyond what is necessary or desired for their intended career path.

The General Science major is designed for students preparing for careers in various health professions (such as Pre-Occupational Therapy, Pre-Physical Therapy, Pre-Nursing, and Pre-Medical Laboratory Science), those planning to pursue graduate studies at the master's or doctoral level, students seeking teacher certification, and individuals preparing for employment in a wide range of science-related fields.

When combined with other complementary, more specific majors or minors, a degree in general science can also be excellent preparation for careers in law, business, public relations, and writing careers in science, technology or natural history.

Career options include, but are not limited to:

- Healthcare
- Technical Writing
- Research
- Environmental Science
- Natural History
- Business
- Public Relations
- Law
- High School Science Teacher

## General Science, Bachelor of Science

### General Science, Bachelor of Science Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |

|   |  |            |
|---|--|------------|
| or CMST 2120  | ARGUMENTATION AND DEBATE   |            |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |            |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                    |            |
| or MATH 1130  | QUANTITATIVE LITERACY  |            |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                        |            |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT   |            |
| <b>Data Literacy – 3 hrs.</b>   |  |            |
| Select one from the following:  |  |            |
| STAT 1100   | DATA LITERACY AND VISUALIZATION  |            |
| STAT 1530   | ELEMENTARY STATISTICS  |            |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |            |
| <b>Breadth of Knowledge</b>   |  | <b>13</b>  |
| Social Science – 3 hrs.   |  |            |
| Humanities – 3 hrs.   |  |            |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |            |
| Arts – 3 hrs.   |  |            |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>   |
| Cultural Knowledge – 3 hrs.   |  |            |
| Civic Knowledge and Engagement – 3 hrs.   |  |            |
| <b>MAJOR REQUIREMENTS</b>   |  |            |
| **Course will satisfy UNO's General Education requirement   |  |            |
| ^Course requires pre-requisite(s)   |  |            |
| <b>General Science - 53-54 Hours Required</b>   |  |            |
| <b>Required Coursework</b>  |  | <b>26</b>  |
| BIOL 1450   | BIOLOGY I (**)   |            |
| BIOL 1750   | BIOLOGY II (^)   |            |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)              |            |
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)               |            |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY (**)                                      |            |
| OR  |  |            |
| GEOL 1100 & GEOL 1104   | EARTH SYSTEM SCIENCE and EARTH SYSTEM SCIENCE LAB (**)                     |            |
| GEOG 1030   | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)                |            |
| <b>Select one of the following (PHYS) Physics Options</b>   |  | <b>10</b>  |
| PHYS 1110 & PHYS 1154   | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^)         |            |
| PHYS 1120 & PHYS 1164   | PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II (^)          |            |
| OR  |  |            |
| PHYS 2110 & PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (** ^) |            |
| PHYS 2120 & PHYS 1164   | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II (^)    |            |
| <b>Mathematics and Statistics Requirement - choose one option</b>   |  | <b>5-6</b> |

|  |  |               |
|--|--|---------------|
| Option 1 - select one of the following calculus courses:   |  |               |
| MATH 1940  | CALCULUS FOR BIOMEDICINE (^)                               |               |
| MATH 1950  | CALCULUS I (^)   |               |
| OR Option 2 - take both of the following courses:  |  |               |
| MATH 1930  | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |               |
| AND one advisor-approved STATISTICS course   |  |               |
| <b>Select 12 additional credits of 2000-level coursework from at least two of the following subjects: Biology, Chemistry, Geography, Geology, and Physics.</b> |  | <b>12</b>     |
| <b>College Breadth (choose one option)</b>   |  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |  |               |
| Option 2: Additional General Education Requirements - 18+ hours  |  |               |
| Additional quantitative literacy - 3 hours   |  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |  |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |  |               |
| HIST 1000 and HIST 1010 - 6 hours  |  |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |  |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)  |  |               |
| <b>Bachelor of Science Cognate Requirement</b>   |  | <b>15</b>     |

Students pursuing the B.S. in General Science must complete 15 hours of cognate coursework—a field of specialization outside their major that aligns with their interests and career goals. Cognates are designed by the student in consultation with an undergraduate advisor. For General Science majors, 3000-4000 level coursework is recommended to fulfill this College of Arts and Sciences (CAS) requirement.

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## General Science, Bachelor of Science Concentrations

- Medical Laboratory Science Concentration (p. 139)

## General Science, Bachelor of Science Four Year Plan

### Freshman

| Fall                                |  | Credits |
|-------------------------------------|--|---------|
| BIOL 1450                           | BIOLOGY I  | 5       |
| ENGL 1150                           | ENGLISH COMPOSITION I  | 3       |
| GEOG 1030                           | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY   | 4       |
| MATH 1930 or MATH 1940 or MATH 1950 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES or CALCULUS FOR BIOMEDICINE or CALCULUS I | 3-5     |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

| <b>Credits</b>                       |   | <b>15-17</b> |
|--------------------------------------|---|--------------|
| <b>Spring</b>                        |   |              |
| BIOL 1750                            | BIOLOGY II                                | 5            |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3            |
| STAT 1530                            | ELEMENTARY STATISTICS                     | 3            |
| General Education Course or Elective |   | 3            |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

| <b>Credits</b>                       |   | <b>14</b> |
|--------------------------------------|---|-----------|
| <b>Sophomore</b>                     |   |           |
| <b>Fall</b>                          |   |           |
| CMST 1110<br>or CMST 2120            | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                | 3         |
| PHYS 1110<br>or PHYS 2110            | PHYSICS FOR LIFE SCIENCE I<br>or GENERAL PHYSICS I - CALCULUS LEVEL | 4         |
| PHYS 1154                            | GENERAL PHYSICS LABORATORY I  | 1         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

| <b>Credits</b>                           |   | <b>14</b> |
|--|---|-----------|
| <b>Spring</b>                            |   |           |
| PHYS 1120<br>or PHYS 2120                | PHYSICS FOR LIFE SCIENCE II<br>or GENERAL PHYSICS II-CALCULUS LEVEL                     | 4         |
| PHYS 1164                                | GENERAL PHYSICS LABORATORY II   | 1         |
| GEOL 1100<br>& GEOL 1104<br>or GEOL 1170 | EARTH SYSTEM SCIENCE (with<br>corresponding lab)<br>or INTRODUCTION TO PHYSICAL GEOLOGY | 4         |
| B.S. Cognate Course                      |   | 3         |
| General Education Course or Elective     |   | 3         |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

| <b>Credits</b>                                     |   | <b>15</b> |
|--|---|-----------|
| <b>Junior</b>                                      |   |           |
| <b>Fall</b>  |   |           |
| CHEM 1180<br>& CHEM 1184                           | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I LABORATORY | 4         |
| Advanced General Science Course at the 2000+ level |   | 3         |
| B.S. Cognate Course                                |   | 3         |
| General Education Course or Elective               |   | 3         |

General Education Course or Elective 3

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit University Career Center or Health Careers Resource Center (if applying to professional health programs) continue updating resume. Make advising appointment for spring: Sept-Oct.

| <b>Credits</b>                                     |   | <b>16</b> |
|--|---|-----------|
| <b>Spring</b>                                      |   |           |
| CHEM 1190<br>& CHEM 1194                           | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II LABORATORY | 4         |
| Advanced General Science Course at the 2000+ level |   | 3         |
| B.S. Cognate Course                                |   | 3         |
| General Education Course or Elective               |   | 3         |
| General Education Course or Elective               |   | 3         |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| <b>Credits</b>                                     |  | <b>16</b> |
|--|--|-----------|
| <b>Senior</b>                                      |  |           |
| <b>Fall</b>  |  |           |
| Advanced General Science Course at the 2000+ level |  | 3         |
| B.S. Cognate Course                                |  | 3         |
| General Education Course or Elective               |  | 3         |
| General Education Course or Elective               |  | 3         |
| General Education Course or Elective               |  | 3         |

Depending on post-baccalaureate plans, check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

| <b>Credits</b>                                     |  | <b>15</b> |
|--|--|-----------|
| <b>Spring</b>                                      |  |           |
| Advanced General Science Course at the 2000+ level |  | 3         |
| B.S. Cognate Course                                |  | 3         |
| General Education Course or Elective               |  | 3         |
| General Education Course or Elective               |  | 3         |
| General Education Course or Elective               |  | 3         |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

| <b>Credits</b>       |  | <b>15</b>      |
|----------------------|--|----------------|
| <b>Total Credits</b> |  | <b>120-122</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Medical Laboratory Science Concentration

### General Science, Bachelor of Science - Medical Laboratory Sciences Concentration Requirements

The B.S. in General Science is offered with a concentration in medical laboratory science for students planning to apply to UNMC's Medical Laboratory Science Program (MLS). This program was designed in collaboration with UNMC to allow a student to complete two Bachelor's degrees in as little as 122 credits. Students will apply to UNO's College of Arts and Sciences for the BS degree with General Science major. It is imperative for students intending to follow this pathway to work closely with each of the lead advisors in the Health Careers Resource Center and Arts and Sciences Advising Center before declaring a concentration in Medical Laboratory Science.

Following the guide below allows the student to complete UNO's general education requirements and UNMC's MLS pre-requisite coursework in no more than three years. Near the beginning of the student's third year of UNO studies, they will need to apply to UNMC's MLS program. Provided that the student has collaborated with the A&S and HCRC's lead advisor and maintained a cumulative or math/science GPA of 3.0, he/she will be guaranteed an interview with UNMC's MLS program.

Should the student be accepted into UNMC's MLS program, they will take at least 43 credits of professional MLS coursework over the span of 11 months, which they must transfer back to UNO toward the completion of this additional UNO degree—a B.S. in general science—medical laboratory science concentration. During the last semester in the MLS program at UNMC, students must apply for graduation at both institutions and request a final transcript from UNMC be sent to UNO within 15 business days following UNO's commencement. Students must have a minimum of 30 credits in residence at UNO and of those, 15 credits must come from the natural and physical sciences.

If the student is not accepted to UNMC, the MLS concentration will be removed and the student may opt to satisfy the General Science non-concentration version of the major in A&S. If so, the following will need to be added to complete the GSCI major: GEOG 1030; GEOL 1100 and GEOL 1104 (or GEOL 1170); PHYS 1110 (<https://catalog.unomaha.edu/>

[search/?P=PHYS%201110](https://catalog.unomaha.edu/)) or PHYS 2110; PHYS 1154; PHYS 1120 or PHYS 2120; PHYS 1164; a minor or additional College of Arts & Sciences general education courses, and electives to reach 120 credits total. Students must have a minimum of 27 upper-level credits throughout the degree.

Coursework to be taken prior to making application to UNMC's B.S. MLS program:

| Code   | Title  | Credits     |
|--|--|-------------|
| <b>Fundamental Skills - Required Pathway Courses</b>   |  | <b>9-10</b> |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)   |             |
| CMST 1110  | PUBLIC SPEAKING FUNDS (**)   |             |
| or CMST 2120   | ARGUMENTATION AND DEBATE   |             |
| MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT (** ^)  |             |
| or MATH 1320   | COLLEGE ALGEBRA  |             |
| <b>Distribution Requirements - Required Pathway Courses</b>  |  | <b>15</b>   |
| One 3-credit hour Humanities Course  |  |             |
| One 3-credit hour Social Science Course  |  |             |
| One 3-credit hour Arts Course  |  |             |
| One 3-credit hour Cultural Knowledge Course  |  |             |
| One 3-credit hour Civic Knowledge and Engagement Course  |  |             |
| <b>MAJOR REQUIREMENTS</b>  |  |             |
| <b>Required Biology Pathway Courses</b>  |  | <b>21</b>   |
| BIOL 1450  | BIOLOGY I (** ^)   |             |
| BIOL 1750  | BIOLOGY II (^)   |             |
| BIOL 2140  | GENETICS (^)   |             |
| BIOL 2440  | THE BIOLOGY OF MICROORGANISMS  |             |
| BIOL 3240  | INTRODUCTION TO IMMUNOLOGY (^)   |             |
| <b>Required Chemistry Pathway Courses</b>  |  | <b>14</b>   |
| CHEM 1140 & CHEM 1144  | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) <sup>1</sup> |             |
| CHEM 2210 & CHEM 2214  | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^) <sup>2</sup>    |             |
| CHEM 3650 & CHEM 3654  | FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)                           |             |
| <b>Required Statistics Pathway Course</b>  |  | <b>3</b>    |
| PA/SOWK/CRCJ 3000  | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^)  |             |
| or PSYC 3130   | STATISTICS FOR THE BEHAVIORAL SCIENCES   |             |
| or STAT 3000   | STATISTICAL METHODS I  |             |
| <b>BS Cognate Coursework - Required Pathway Courses</b>  |  | <b>15</b>   |
| Chosen in consultation with UNO advisor. Cannot be transferred from UNMC. Some suggested courses are:                                    |  |             |
| BIOL 1060  | INTRODUCTION TO MEDICAL CAREERS & ETHICS   |             |
| BIOL 1160  | TERMINOLOGY OF HUMAN HEALTH & DISEASE  |             |
| BIOL 2740  | HUMAN ANATOMY AND PHYSIOLOGY I   |             |
| BIOL 2840  | HUMAN ANATOMY AND PHYSIOLOGY II  |             |
| (Students will satisfy the final 3 credits of the cognate requirement with one of the distribution courses, as approved by the advisor.) |  |             |

**STUDENTS MUST WORK WITH THE HEALTH CAREERS RESOURCE CENTER AND UNMC FOR APPLICATION TO THE PROFESSIONAL MLS PROGRAM AT UNMC.**

**Required Medical Laboratory Science Pathway Courses from UNMC**

**General Science Major Requirements- MLS Concentration**

|   |   |
|---|---|
| MLS 407 - CLINICAL LABORATORY OPERATIONS ^                                  | 2 |
| MLS 408 - INTRODUCTION TO CLINICAL HEMATOLOGY ^                             | 2 |
| MLS 409 - INTRODUCTION TO MEDICAL MICROBIOLOGY ^                            | 2 |
| MLS 410 - INTRODUCTION TO CLINICAL CHEMISTRY AND URINALYSIS ^               | 1 |
| MLS 412 - CLINICAL LABORATORY SCIENCE THEORY, APPLICATION AND CORRELATION ^ | 5 |
| MLS 416 - Clinical Hematology I ^   | 2 |
| MLS 418 - Clinical Microbiology I ^   | 2 |
| MLS 420 - CLINICAL IMMUNOLOGY, SEROLOGY AND MOLECULAR DIAGNOSTICS ^         | 2 |
| MLS 422 - Clinical Immunohematology I ^                                     | 2 |

**College Breadth**

**0**

College of Arts and Sciences' breadth requirement satisfied with the dual degrees from UNO and UNMC.

**ELECTIVES**

|  |    |
|--|----|
| 23 CREDITS OF MLS COURSEWORK FROM UNMC | 23 |
|--|----|

Elective hours as required to reach a total of 120 hours

<sup>1</sup> CHEM 1180-1184 and CHEM 1190-1194 may be substituted for CHEM 1140-1144.

<sup>2</sup> CHEM 2250 and CHEM 2260-2274 may be substituted for CHEM 2210-2214.

## General Science, Bachelor of Science - Medical Laboratory Sciences Concentration Four-Year Plan

**Freshman**

| <b>Fall</b>               |   | <b>Credits</b> |
|---------------------------|---|----------------|
| BIOL 1450                 | BIOLOGY I   | 5              |
| ENGL 1160                 | COLLEGE RESEARCH AND INFORMATION LITERACY                               | 3              |
| MATH 1300<br>or MATH 1320 | COLLEGE ALGEBRA WITH SUPPORT<br>or COLLEGE ALGEBRA                      | 3-4            |
| BIOL 1060                 | INTRODUCTION TO MEDICAL CAREERS & ETHICS (for suggested cognate course) | 2              |
| <b>Credits</b>            |   | <b>13-14</b>   |

**Spring**

|                          |   |           |
|--------------------------|---|-----------|
| BIOL 1750                | BIOLOGY II  | 5         |
| CHEM 1140<br>& CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY | 5         |
| Social Sciences Course   |   | 3         |
| <b>Credits</b>           |   | <b>13</b> |

**Sophomore**

| <b>Fall</b> |                               |   |
|-------------|-------------------------------|---|
| BIOL 2440   | THE BIOLOGY OF MICROORGANISMS | 4 |

|                           |   |   |
|---------------------------|---|---|
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                                  | 3 |
| CHEM 2210<br>& CHEM 2214  | FUNDAMENTALS OF ORGANIC CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY | 5 |

**Credits 12**

**Spring**

|                          |   |   |
|--------------------------|---|---|
| BIOL 2140                | GENETICS  | 4 |
| CHEM 3650<br>& CHEM 3654 | FUNDAMENTALS OF BIOCHEMISTRY<br>and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY | 4 |
| BIOL 1160                | TERMINOLOGY OF HUMAN HEALTH & DISEASE                                       | 2 |

|                           |   |
|---------------------------|---|
| Cultural Knowledge Course | 3 |
|---------------------------|---|

It is suggested that students have a parallel plan involving another major or at least a minor. Taking a course toward that major or minor here or an upper-level elective is suggested.

**Credits 13**

**Junior**

**Fall**

|   |  |   |
|---|--|---|
| BIOL 2740   | HUMAN ANATOMY AND PHYSIOLOGY I   | 4 |
| PSYC 3130<br>or STAT 3000<br>or PA 3000<br>or SOWK 3000<br>or CRCJ 3000 | STATISTICS FOR THE BEHAVIORAL SCIENCES<br>or STATISTICAL METHODS I<br>or APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR<br>or APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR<br>or APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR | 3 |

|             |   |
|-------------|---|
| Arts Course | 3 |
|-------------|---|

|                   |   |
|-------------------|---|
| Humanities Course | 3 |
|-------------------|---|

Note: UNMC'S Medical Laboratory Science Program Application needs to be started this semester. Typically applications are due early October, and the program begins late May in the following year. BEGIN APPLICATION NOW. Students must have taken the required courses, even if in a different plan of study, and must have a cumulative or math/science GPA of 3.0 minimum for a guaranteed interview with UNMC.

**Credits 13**

**Spring**

|   |                                 |   |
|---|---------------------------------|---|
| BIOL 2840   | HUMAN ANATOMY AND PHYSIOLOGY II | 4 |
| BIOL 3240   | INTRODUCTION TO IMMUNOLOGY      | 3 |
| Civic Knowledge and Engagement Course                             |                                 | 3 |
| Elective to reach full-time standing, depending on courses taken. |                                 | 3 |

It is suggested that students have a parallel plan involving another major or at least a minor. Taking a course toward that major or minor here or an upper-level elective is suggested.

**Credits 13**

**Summer**

**AT UNMC**

|   |    |
|---|----|
| After taking the above 3 years worth of courses, upon acceptance to the Bachelor of Science in Medical Laboratory Science program at UNMC, students will take at least 43 credits of professional MLS coursework to transfer back toward the completion of this additional UNO degree—a B.S. in general science—medical laboratory science concentration. | 43 |
|---|----|



If the student is not accepted to UNMC, the MLS concentration will be removed and the student may opt to satisfy the General Science non-concentration version of the major in A&S. If so, the following will need to be added to complete the GSCI major: GEOG 1030; GEOL 1100 and GEOL 1104 (or GEOL 1170); PHYS 1110 or PHYS 2110; PHYS 1154; PHYS 1120 or PHYS 2120; PHYS 1164; a minor or additional College of Arts & Sciences general education courses, and electives to reach 120 credits total. Students must have a minimum of 27 upper-level credits throughout the degree.

|                      |                |
|----------------------|----------------|
| <b>Credits</b>       | <b>43</b>      |
| <b>Total Credits</b> | <b>120-121</b> |

Students completing this concentration within the General Science major are required to meet with the Health Careers Resource Center semesterly. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**Graduation Requirements:** The B.S. in general science is offered with a concentration in medical laboratory science for students planning to apply to UNMC's Medical Laboratory Science Program (MLS). This program was designed in collaboration with UNMC to allow a student to complete two bachelor's degrees in as little as 122 credits. Students will apply to UNO's General Science program and add on the medical laboratory science concentration. Following the guide below allows the student to complete UNO's general education requirements and UNMC's MLS prerequisite coursework in no more than three years. Near the beginning of the student's third year of UNO studies, they will need to apply to UNMC's MLS program. Provided that the student has followed the curriculum, for example, as laid out above, maintained a cumulative or math/science GPA of 3.0, he/she will be guaranteed an interview with UNMC's MLS program. Upon acceptance into UNMC's MLS program, students will complete 11 months of studies in specific MLS courses. After completion of the MLS program at UNMC, students may transfer their UNMC coursework back to UNO to earn a dual degree of BS MLS from UNMC/ BS GSCI-MLS concentration from UNO. Students must have a minimum of 30 credits in residence at UNO and of those, 15 credits must come from the natural and physical sciences.

## Geography

The Department offers a Bachelor of Arts and a Bachelor of Science in Geography. We also offer optional concentrations in Geographic Information Science and Technology (BA, BS), Travel & Tourism (BA, BS), and Physical Geography (BS only), as well as a minor in Geography. The

geography program at UNO prepares students for careers in urban and environmental planning, geographic information systems, cartography, remote sensing, and other areas of geographic research.

## Other Information

All coursework taken for the Geography major or minor must be completed with a grade of "C-" or better.

#### Double-counting rules between Geography and Environmental Science-Geography and Planning:

Students pursuing both majors may not count the same 3000-4000 level Geography courses towards both programs, with the exception of GEOG 3530 and 4050.

The **Environmental Science-Geography and Planning** major with Geography minor may not use the same 3000/4000 level course for both programs.

#### Double-counting rules between Geography and Geology:

Only one course at the upper level may be counted as credit for both the Geography major and Geology minor, or Geology major and Geography minor. All other upper-level courses can only count in either the major or minor.

Geography may also be studied through the College of Public Affairs and Community Service in the Division of Continuing Studies. Students interested in this degree program must meet with an advisor in the Division of Continuing Studies. The concentration consists of a minimum of 30 credit hours in geography, details of which are provided here (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/division-of-continuing-studies/academics/areas-of-study/geography.php>).

## Option for Degree Completion Fast Track Program

The Department of Geography/Geology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- This program is available for undergraduate students pursuing a BA/BS in Geography desiring to pursue an MS in Geography.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must have a graduate faculty member in the department of Geography/Geology provide a short letter of support for their application to Fast Track as a faculty sponsor/mentor.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 for graduate coursework is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.



- The admit term must be after the completion term of the undergraduate degree.

## Student Groups

University of Nebraska Omaha Geography Club (<https://www.unomaha.edu/college-of-arts-and-sciences/geography/student-opportunities/student-organizations.php>)

## Contact

Rex G. Cammack, Chair: Department of Geography/Geology

260 DSC  
402.554.2662

**Website (<https://www.unomaha.edu/college-of-arts-and-sciences/geography/>)**

## Degrees Offered

- Geography, Bachelor of Arts (p. 142)
- Geography, Bachelor of Science (p. 148)

## Minors Offered

Available on campus and online.

- Geography Minor (p. 155)

Geographers are on the front line, tackling some of the most urgent issues facing our world, such as climate change, rapid urbanization, and the spread of infectious diseases. Want to make a difference in our world? – become a geographer!

Geography is the study of the earth as the home to humans, from the environment and landscape to the ways in which humans depend on, adapt to, and modify our world. It mixes the physical sciences (landforms, climate, biology), with the social sciences (population, land use, culture, economic development), using cutting-edge spatial technologies (geographic information systems, global positioning systems, remote sensing). We are interested not only in where things are, but why they are there, and “why should we care?” To study geography means honing both observational and analytical skills. With these skills, our graduates work in a wide range of fields, including:

- urban planning
- environmental management (for state and federal agencies)
- cartography and spatial analysis (for state and federal agencies as well as private companies)
- geospatial data science (for community development, marketing, and infrastructure planning)
- emergency planning and preparedness
- climatology and meteorology
- education
- natural resource management(groundwater, rivers, soil and air)
- environmental conservation and preservation (local state and national park rangers, historical preservation, and environmental education)

## Geography, Bachelor of Arts

Students who wish more concentrated applications in geography may choose an optional concentration of either Geographic Information Science and Technology or Travel and Tourism. The specific course requirements for these concentrations may also be used to satisfy the major requirements where the overlap of course options occurs.

## Geography, Bachelor of Arts Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>  |   |           |
| Minimum of “C-”required  |   |           |
| <b>Fundamental Skills</b>  |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>  |   |           |
| ENGL 1150  | ENGLISH COMPOSITION I   |           |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>   |   |           |
| CMST 1110  | PUBLIC SPEAKING FUNDS   |           |
| or CMST 2120   | ARGUMENTATION AND DEBATE  |           |
| <b>Quantitative Literacy – 3 hrs.</b>  |   |           |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING   |           |
| or MATH 1130   | QUANTITATIVE LITERACY   |           |
| or MATH 1140   | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS   |           |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT  |           |
| <b>Data Literacy – 3 hrs.</b>  |   |           |
| Select one from the following:   |   |           |
| STAT 1100  | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530  | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.    |   |           |
| <b>Breadth of Knowledge</b>  |   | <b>13</b> |
| Social Science – 3 hrs.  |   |           |
| Humanities – 3 hrs.  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |           |
| Arts – 3 hrs.  |   |           |
| <b>Individual and Social Responsibility</b>  |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |           |
| Civic Knowledge and Engagement – 3 hrs.  |   |           |
| <b>MAJOR REQUIREMENTS</b>  |   |           |
| **Course will satisfy UNO's General Education requirement  |   |           |
| ^Course requires pre-requisite(s)  |   |           |
| <b>Geography Major - 42-45 Hours Required</b>  |   |           |
| The Bachelor of Arts degree with a major in Geography requires 42-45 hours of major coursework, of which 25 hours must be upper-level (3000-4000) Geography courses. |   |           |
| <b>Required Coursework</b>   |   | <b>24</b> |
| GEOG 1000  | WORLD REGIONAL GEOGRAPHY (**)   |           |
| GEOG 1020  | INTRODUCTION TO HUMAN GEOGRAPHY (**)  |           |
| GEOG 1030  | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)   |           |
| GEOG 1050  | HUMAN-ENVIRONMENT GEOGRAPHY (** ^)  |           |
| GEOG 3530  | CARTOGRAPHY AND DATA VISUALIZATION  |           |
| GEOG 4620  | GEOGRAPHICAL FIELD STUDIES (Can also apply to the upper-level Global or North American category, depending on the field study destination) <sup>1</sup> |           |

|           |                              |
|-----------|------------------------------|
| STAT 1530 | ELEMENTARY STATISTICS (** ^) |
|-----------|------------------------------|

Note: All pre-reqs for GEOG 3530 are a part of this list, with the exception of programming. Students without programming experience will need to take CIST 1300 or receive instructor permission prior to enrollment into GEOG 3530.

#### 1 Geographical Field Studies Requirement

Optional method of completing GEOG 4620: Students who have completed study abroad, or military service for more than six months outside the USA can complete the course without going on the multiple day field trip. Contact the department for the details regarding this alternative method.

#### Geography diversity requirements

#### Choose at least one course in Physical Geography 3-4

|                          |   |
|--------------------------|---|
| GEOG 3440                | NEBRASKA NATURAL RESOURCES MANAGMENT (^)                      |
| GEOG 3510 & GEOG 3514    | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (** ^) |
| GEOG 4010                | CONSERVATION OF NATURAL RESOURCES                             |
| GEOG/GEOL 4040           | GEOARCHAEOLOGY  |
| GEOG/BIOL/GEOL 4100      | BIOGEOGRAPHY (^)  |
| GEOG/GEOL 4200           | WATER QUALITY (^)   |
| GEOG/GEOL 4260           | PROCESS GEOMORPHOLOGY   |
| GEOG 4320                | CLIMATOLOGY   |
| GEOG/GEOL 4330           | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION                   |
| GEOG 4340                | WATER RESOURCES   |
| GEOG/ENVN 4350           | GLOBAL CLIMATE CHANGE   |
| GEOG/ENVN/GEOL/BIOL 4610 | ENVIRONMENTAL MONITORING AND ASSESSMENT                       |
| GEOG/GEOL 4640           | CRITICAL ZONE SCIENCE   |

#### Choose at least two courses in Human Geography 6

|                        |   |
|------------------------|---|
| GEOG 3020              | HEALTH & MEDICAL GEOGRAPHY                      |
| GEOG/ECON 3130         | ECONOMIC GEOGRAPHY                              |
| GEOG 3440              | NEBRASKA NATURAL RESOURCES MANAGMENT (^)        |
| GEOG 4010              | CONSERVATION OF NATURAL RESOURCES               |
| GEOG 4120              | URBAN GEOGRAPHY                                 |
| GEOG 4130              | POLITICAL GEOGRAPHY                             |
| GEOG/WGST/ENTR 4150    | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP          |
| GEOG 4160              | URBAN SUSTAINABILITY                            |
| GEOG 4170              | ADVANCED CULTURAL GEOGRAPHY                     |
| GEOG/WGST 4210         | GEOGRAPHIES OF SEXUALITIES (^)                  |
| GEOG 4550              | GEOGRAPHY OF THE WORLD ECONOMY                  |
| GEOG/ENVN/BIOL/PA 4820 | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS |

#### Choose at least one course in Global Perspectives 3

|                |   |
|----------------|---|
| GEOG 3000      | TRAVEL STUDY IN GEOGRAPHY                 |
| GEOG/BLST 3030 | GEOGRAPHY OF AFRICA (^)                   |
| GEOG 3050      | GEOGRAPHY IN FILM (^)                     |
| GEOG/LLS 3070  | GEOGRAPHY OF LATIN AMERICA (^)            |
| GEOG 3080      | EAST & SOUTHEAST ASIA (^)                 |
| GEOG 3230      | GEOGRAPHY OF EUROPE (^)                   |
| GEOG 3240      | GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^) |

#### Choose at least one course in North American Perspectives 3

|           |   |
|-----------|---|
| GEOG 3330 | UNITED STATES & CANADA (^)                    |
| GEOG 4230 | GREAT PLAINS & NEBRASKA                       |
| GEOG 4530 | HISTORICAL GEOGRAPHY OF THE UNITED STATES (^) |

#### Choose at least one course in Geospatial Science 3-4

|           |  |
|-----------|--|
| GEOG 2620 | AERIAL PHOTOGRAPHIC INTERPRETATION     |
| GEOG 4020 | SPATIAL ANALYSIS IN GEOGRAPHY          |
| GEOG 4030 | COMPUTER MAPPING AND VISUALIZATION (^) |
| GEOG 4050 | GEOGRAPHIC INFORMATION SYSTEMS I (^)   |
| GEOG 4630 | ENVIRONMENTAL REMOTE SENSING (^)       |
| GEOG 4660 | GEOGRAPHIC INFORMATION SYSTEMS II (^)  |

#### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 12+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### Bachelor of Arts Language Requirement 16

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Geography, Bachelor of Arts Optional Concentrations

Geography majors have the option to declare a concentration, if they wish. Concentrations are at least 15 credits, and are allowed to count within the major requirements, where applicable.

- Geographic Information Science and Technology (p. 145)
- Travel and Tourism Concentration (p. 146)

## Geography, Bachelor of Arts Four Year Plan

#### Freshman

| Fall      |  | Credits |
|-----------|--|---------|
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY                        | 3       |
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY | 4       |
| ENGL 1150 | ENGLISH COMPOSITION I                                  | 3       |
| MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                           | 4       |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

| <b>Credits</b>            |   | <b>14</b> |
|---------------------------|---|-----------|
| <b>Spring</b>             |   |           |
| GEOG 1000                 | WORLD REGIONAL GEOGRAPHY                                    | 3         |
| GEOG 1050                 | HUMAN-ENVIRONMENT GEOGRAPHY                                 | 4         |
| ENGL 1160                 | COLLEGE RESEARCH AND INFORMATION LITERACY                   | 3         |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE        | 3         |
| STAT 1530                 | ELEMENTARY STATISTICS (or other approved statistics course) | 3         |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

| <b>Credits</b> |  | <b>16</b> |
|----------------|--|-----------|
|----------------|--|-----------|

**Sophomore****Fall**

|                                      |                                 |   |
|--------------------------------------|---------------------------------|---|
| CIST 1300                            | INTRODUCTION TO WEB DEVELOPMENT | 3 |
| General Education Course or Elective |                                 | 3 |
| General Education Course or Elective |                                 | 3 |
| World Language 1110                  |                                 | 5 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

| <b>Credits</b> |  | <b>14</b> |
|----------------|--|-----------|
|----------------|--|-----------|

**Spring**

|                                      |                                    |   |
|--------------------------------------|------------------------------------|---|
| GEOG 3530                            | CARTOGRAPHY AND DATA VISUALIZATION | 4 |
| World Language 1120                  |                                    | 5 |
| General Education Course or Elective |                                    | 3 |
| General Education Course or Elective |                                    | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

| <b>Credits</b> |  | <b>15</b> |
|----------------|--|-----------|
|----------------|--|-----------|

**Junior****Fall**

|                                      |  |     |
|--------------------------------------|--|-----|
| Physical Geography Course            |  | 3-4 |
| General Education Course or Elective |  | 3   |
| Global Perspectives Geography Course |  | 3   |
| World Language 2110                  |  | 3   |
| Elective                             |  | 3   |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

| <b>Credits</b> |  | <b>15-16</b> |
|----------------|--|--------------|
|----------------|--|--------------|

**Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| World Language 2120                  |  | 3 |
| Human Geography Course               |  | 3 |
| General Education Course or Elective |  | 3 |
| Elective                             |  | 3 |
| Elective                             |  | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| <b>Credits</b> |  | <b>15</b> |
|----------------|--|-----------|
|----------------|--|-----------|

**Senior****Fall**

|  |  |     |
|--|--|-----|
| North American Perspectives Geography Course |  | 3   |
| Geospatial Science Course                    |  | 3-4 |
| Human Geography Course                       |  | 3   |
| General Education Course or Elective         |  | 3   |
| Elective                                     |  | 3-4 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

| <b>Credits</b> |  | <b>15-17</b> |
|----------------|--|--------------|
|----------------|--|--------------|

**Spring**

|                                      |                            |   |
|--------------------------------------|----------------------------|---|
| GEOG 4620                            | GEOGRAPHICAL FIELD STUDIES | 3 |
| General Education Course or Elective |                            | 3 |
| Elective                             |                            | 3 |
| Elective                             |                            | 3 |
| Elective                             |                            | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

| <b>Credits</b> |  | <b>15</b> |
|----------------|--|-----------|
|----------------|--|-----------|

| <b>Total Credits</b> |  | <b>119-122</b> |
|----------------------|--|----------------|
|----------------------|--|----------------|

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Geographic Information Science and Technology Concentration

### Geography, Bachelor of Arts with a Concentration in Geographic Information Science and Technology Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Geography Major with a Concentration in Geographic Information Science and Technology - 42-60 Hours Required</b>   |   |           |

The Bachelor of Arts degree with a major in Geography requires 42-45 hours of major coursework, of which 25 hours must be upper-level (3000-4000) Geography courses.

#### Required Coursework **27**

|           |  |
|-----------|--|
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY (**)  |
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY (**)   |
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)  |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (**)   |
| CIST 1300 | INTRODUCTION TO WEB DEVELOPMENT (^)  |
| GEOG 3530 | CARTOGRAPHY AND DATA VISUALIZATION (^)   |
| GEOG 4620 | GEOGRAPHICAL FIELD STUDIES (Can also apply to the upper-level Global or North American category, depending on the field study destination.) <sup>1</sup> |
| STAT 1530 | ELEMENTARY STATISTICS (** ^)   |

#### 1 Geographical Field Studies Requirement

Optional method of completing GEOG 4620: Students who have completed study abroad, or military service for more than six months outside the USA can complete the course without going on the multiple day field trip. Contact the department for the details regarding this alternative method.

#### Geographic Information Science and Technology Concentration

**Select 9 credit hours of computer science coursework in consultation with an advisor** **9**

**Select one of the following Mathematics options:** **3-7**

|              |                              |
|--------------|------------------------------|
| MATH 1300    | COLLEGE ALGEBRA WITH SUPPORT |
| or MATH 1320 | COLLEGE ALGEBRA              |
| AND          |                              |
| MATH 1330    | TRIGONOMETRY (^)             |

or one of the following:

|           |  |
|-----------|--|
| MATH 1340 | ALGEBRA AND TRIGONOMETRY FOR CALCULUS (^)                  |
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1950 | CALCULUS I (^)   |

**Additionally, select one of the following\*** **3-4**

|           |  |
|-----------|--|
| GEOG 4020 | SPATIAL ANALYSIS IN GEOGRAPHY (^)      |
| GEOG 4030 | COMPUTER MAPPING AND VISUALIZATION (^) |
| GEOG 4050 | GEOGRAPHIC INFORMATION SYSTEMS I (^)   |
| GEOG 4660 | GEOGRAPHIC INFORMATION SYSTEMS II (^)  |

\*Can double-count with Geospatial Science requirement below

#### Geography diversity requirements

**Choose at least one course in Physical Geography** **3-4**

|                       |   |
|-----------------------|---|
| GEOG 3440             | NEBRASKA NATURAL RESOURCES MANAGEMENT (^)                   |
| GEOG 3510 & GEOG 3514 | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (**) |
| GEOG 4010             | CONSERVATION OF NATURAL RESOURCES (^)                       |
| GEOG/GEOL 4040        | GEOARCHAEOLOGY (^)  |

|   |   |               |
|---|---|---------------|
| GEOG/BIOL/GEOL 4100   | BIOGEOGRAPHY (^)                                    |               |
| GEOG/GEOL 4200  | WATER QUALITY (^)                                   |               |
| GEOG/GEOL 4260  | PROCESS GEOMORPHOLOGY (^)                           |               |
| GEOG 4320   | CLIMATOLOGY (^)                                     |               |
| GEOG/GEOL 4330  | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)     |               |
| GEOG 4340   | WATER RESOURCES (^)                                 |               |
| GEOG/ENVN 4350  | GLOBAL CLIMATE CHANGE (^)                           |               |
| GEOG/ENVN/GEOL/BIOL 4610  | ENVIRONMENTAL MONITORING AND ASSESSMENT (^)         |               |
| GEOG/GEOL 4640  | CRITICAL ZONE SCIENCE (^)                           |               |
| <b>Choose at least two courses in Human Geography</b>                     |   | <b>6</b>      |
| GEOG 3020   | HEALTH & MEDICAL GEOGRAPHY (^)                      |               |
| GEOG/ECON 3130  | ECONOMIC GEOGRAPHY (^)                              |               |
| GEOG 3440   | NEBRASKA NATURAL RESOURCES MANAGMENT (^)            |               |
| GEOG 4010   | CONSERVATION OF NATURAL RESOURCES (^)               |               |
| GEOG 4120   | URBAN GEOGRAPHY (^)                                 |               |
| GEOG 4130   | POLITICAL GEOGRAPHY (^)                             |               |
| GEOG/WGST/ENTR 4150   | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)          |               |
| GEOG 4160   | URBAN SUSTAINABILITY (^)                            |               |
| GEOG 4170   | ADVANCED CULTURAL GEOGRAPHY (^)                     |               |
| GEOG/WGST 4210  | GEOGRAPHIES OF SEXUALITIES (^)                      |               |
| GEOG 4550   | GEOGRAPHY OF THE WORLD ECONOMY (^)                  |               |
| GEOG/ENVN/BIOL/PA 4820  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |               |
| <b>Choose at least one course in Global Perspectives</b>                  |   | <b>3</b>      |
| GEOG 3000   | TRAVEL STUDY IN GEOGRAPHY (^)                       |               |
| GEOG/BLST 3030  | GEOGRAPHY OF AFRICA (^)                             |               |
| GEOG 3050   | GEOGRAPHY IN FILM (^)                               |               |
| GEOG/LLS 3070   | GEOGRAPHY OF LATIN AMERICA (^)                      |               |
| GEOG 3080   | EAST & SOUTHEAST ASIA (^)                           |               |
| GEOG 3230   | GEOGRAPHY OF EUROPE (^)                             |               |
| GEOG 3240   | GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^)           |               |
| <b>Choose at least one course in North American Perspectives</b>          |   | <b>3</b>      |
| GEOG 3330   | UNITED STATES & CANADA (^)                          |               |
| GEOG 4230   | GREAT PLAINS & NEBRASKA (^)                         |               |
| GEOG 4530   | HISTORICAL GEOGRAPHY OF THE UNITED STATES (^)       |               |
| <b>Choose at least one course in Geospatial Science</b>                   |   | <b>3-4</b>    |
| GEOG 2620   | AERIAL PHOTOGRAPHIC INTERPRETATION                  |               |
| GEOG 4020   | SPATIAL ANALYSIS IN GEOGRAPHY (^)                   |               |
| GEOG 4030   | COMPUTER MAPPING AND VISUALIZATION (^)              |               |
| GEOG 4050   | GEOGRAPHIC INFORMATION SYSTEMS I (^)                |               |
| GEOG 4630   | ENVIRONMENTAL REMOTE SENSING (^)                    |               |
| GEOG 4660   | GEOGRAPHIC INFORMATION SYSTEMS II (^)               |               |
| <b>College Breadth (choose one option)</b>                                |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours |   |               |

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another 3rd Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Travel and Tourism Concentration

### Geography, Bachelor of Arts with a Concentration in Travel and Tourism Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |



**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Geography Major with a Concentration in Travel and Tourism - 42-57 Hours Required**

The Bachelor of Arts degree with a major in Geography requires 42-45 hours of major coursework, of which 25 hours must be upper-level (3000-4000) Geography courses.

**Required Coursework 24**

|           |   |
|-----------|---|
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY (**)   |
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY (**)  |
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)   |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (** ^)  |
| GEOG 3530 | CARTOGRAPHY AND DATA VISUALIZATION  |
| GEOG 4620 | GEOGRAPHICAL FIELD STUDIES (Can also apply to the upper-level Global or North American category, depending on the field study destination) <sup>1</sup> |
| STAT 1530 | ELEMENTARY STATISTICS (**)  |

**1 Geographical Field Studies Requirement**

Optional method of completing GEOG 4620: Students who have completed study abroad, or military service for more than six months outside the USA can complete the course without going on the multiple day field trip. Contact the department for the details regarding this alternative method.

**Travel and Tourism Concentration****Required Course 3**

|           |                           |
|-----------|---------------------------|
| GEOG 3000 | TRAVEL STUDY IN GEOGRAPHY |
|-----------|---------------------------|

**Select four of the following\* 12**

|                |   |
|----------------|---|
| ECON 1200      | SURVEY OF ECONOMICS (**, ^)               |
| or ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO)           |
| or ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO)           |
| GEOG/ECON 3130 | ECONOMIC GEOGRAPHY (^)                    |
| GEOG 3230      | GEOGRAPHY OF EUROPE (^)                   |
| GEOG 3240      | GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^) |
| GEOG 3330      | UNITED STATES & CANADA (^)                |
| GEOG 4230      | GREAT PLAINS & NEBRASKA                   |
| GEOG 4620      | GEOGRAPHICAL FIELD STUDIES (^)            |

\*Can double-count with Geography diversity courses below

**Geography diversity requirements****Choose at least one course in Physical Geography 3**

|                       |   |
|-----------------------|---|
| GEOG 3440             | NEBRASKA NATURAL RESOURCES MANAGMENT (^)                      |
| GEOG 3510 & GEOG 3514 | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (** ^) |
| GEOG 4010             | CONSERVATION OF NATURAL RESOURCES (^)                         |
| GEOG/GEOL 4040        | GEOARCHAEOLOGY (^)  |
| GEOG/BIOL/GEOL 4100   | BIOGEOGRAPHY (^)  |
| GEOG/GEOL 4200        | WATER QUALITY (^)   |
| GEOG/GEOL 4260        | PROCESS GEOMORPHOLOGY (^)                                     |
| GEOG 4320             | CLIMATOLOGY (^)   |

GEOG/GEOL 4330 SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)

GEOG 4340 WATER RESOURCES (^)

GEOG/ENVN 4350 GLOBAL CLIMATE CHANGE (^)

GEOG/ENVN/GEOL/BIOL 4610 ENVIRONMENTAL MONITORING AND ASSESSMENT (^)

GEOG/GEOL 4640 CRITICAL ZONE SCIENCE (^)

**Choose at least two courses in Human Geography 6**

GEOG 3020 HEALTH & MEDICAL GEOGRAPHY (^)

GEOG/ECON 3130 ECONOMIC GEOGRAPHY (^)

GEOG 3440 NEBRASKA NATURAL RESOURCES MANAGMENT (^)

GEOG 4010 CONSERVATION OF NATURAL RESOURCES (^)

GEOG 4120 URBAN GEOGRAPHY

GEOG 4130 POLITICAL GEOGRAPHY (^)

GEOG/WGST/ENTR 4150 GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)

GEOG 4160 URBAN SUSTAINABILITY (^)

GEOG 4170 ADVANCED CULTURAL GEOGRAPHY

GEOG/WGST 4210 GEOGRAPHIES OF SEXUALITIES (^)

GEOG 4550 GEOGRAPHY OF THE WORLD ECONOMY (^)

GEOG/ENVN/BIOL 4820 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)

**Choose at least one course in Global Perspectives 3**

GEOG 3000 TRAVEL STUDY IN GEOGRAPHY (^)

GEOG/BLST 3030 GEOGRAPHY OF AFRICA (^)

GEOG 3050 GEOGRAPHY IN FILM (^)

GEOG/LLS 3070 GEOGRAPHY OF LATIN AMERICA (^)

GEOG 3080 EAST & SOUTHEAST ASIA (^)

GEOG 3230 GEOGRAPHY OF EUROPE (^)

GEOG 3240 GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^)

**Choose at least one course in North American Perspectives 3**

GEOG 3330 UNITED STATES & CANADA (^)

GEOG 4230 GREAT PLAINS & NEBRASKA

GEOG 4530 HISTORICAL GEOGRAPHY OF THE UNITED STATES (^)

**Choose at least one course in Geospatial Science 3-4**

GEOG 2620 AERIAL PHOTOGRAPHIC INTERPRETATION

GEOG 4020 SPATIAL ANALYSIS IN GEOGRAPHY (^)

GEOG 4030 COMPUTER MAPPING AND VISUALIZATION (^)

GEOG 4050 GEOGRAPHIC INFORMATION SYSTEMS I (^)

GEOG 4630 ENVIRONMENTAL REMOTE SENSING (^)

GEOG 4660 GEOGRAPHIC INFORMATION SYSTEMS II (^)

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours



|   |           |
|---|-----------|
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |           |
| HIST 1000 and HIST 1010 - 6 hours   |           |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |           |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |           |
| <b>Bachelor of Arts Language Requirement</b>                                      | <b>16</b> |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |           |
| <b>ELECTIVES</b>  |           |
| Elective hours as required to reach a total of 120 hours                          |           |

## Geography, Bachelor of Science

Students pursuing the Bachelor of Science degree may choose an optional concentration in one of the following areas: Geographic Information Science and Technology, Travel and Tourism, or Physical Geography. Where course options overlap, credits may count toward both the concentration and the major requirements.

## Geography, Bachelor of Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### Geography Major - 39-40 Hours Required

| Required Coursework |   | 24 |
|---------------------|---|----|
| GEOG 1000           | WORLD REGIONAL GEOGRAPHY (**)   |    |
| GEOG 1020           | INTRODUCTION TO HUMAN GEOGRAPHY (**)  |    |
| GEOG 1030           | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)   |    |
| GEOG 1050           | HUMAN-ENVIRONMENT GEOGRAPHY (** ^)  |    |
| GEOG 3530           | CARTOGRAPHY AND DATA VISUALIZATION  |    |
| GEOG 4620           | GEOGRAPHICAL FIELD STUDIES (Can also apply to the upper-level Global or North American category, depending on the field study destination) <sup>1</sup> |    |
| STAT 1530           | ELEMENTARY STATISTICS (** ^)  |    |

### 1 Geographical Field Studies Requirement

Optional method of completing GEOG 4620: Students who have completed study abroad, or military service for more than six months outside the USA can complete the course without going on the multiple day field trip. Contact the department for the details regarding this alternative method.

### GEOGRAPHY DIVERSITY REQUIREMENTS (15 credits minimum)

| Choose at least one course in Physical Geography |   | 3-4 |
|--|---|-----|
| GEOG 3440  | NEBRASKA NATURAL RESOURCES MANAGEMENT (^)                     |     |
| GEOG 3510 & GEOG 3514                            | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (** ^) |     |
| GEOG 4010  | CONSERVATION OF NATURAL RESOURCES                             |     |
| GEOG/GEOL 4040                                   | GEOARCHAEOLOGY  |     |
| GEOG/BIOG/GEOL 4100                              | BIOGEOGRAPHY (^)  |     |
| GEOG/GEOL 4200                                   | WATER QUALITY (^)   |     |
| GEOG/GEOL 4260                                   | PROCESS GEOMORPHOLOGY (^)                                     |     |
| GEOG 4320  | CLIMATOLOGY (^)   |     |
| GEOG/GEOL 4330                                   | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION                   |     |
| GEOG 4340  | WATER RESOURCES   |     |
| GEOG/ENVN 4350                                   | GLOBAL CLIMATE CHANGE   |     |
| GEOG/ENVN/GEOL/BIOG 4610                         | ENVIRONMENTAL MONITORING AND ASSESSMENT                       |     |
| GEOG/GEOL 4640                                   | CRITICAL ZONE SCIENCE   |     |

| Choose at least one course in Human Geography |  | 3 |
|---|--|---|
| GEOG 3020                                     | HEALTH & MEDICAL GEOGRAPHY                 |   |
| GEOG/ECON 3130                                | ECONOMIC GEOGRAPHY                         |   |
| GEOG 3440                                     | NEBRASKA NATURAL RESOURCES MANAGEMENT (^)  |   |
| GEOG 4010                                     | CONSERVATION OF NATURAL RESOURCES          |   |
| GEOG 4120                                     | URBAN GEOGRAPHY                            |   |
| GEOG 4130                                     | POLITICAL GEOGRAPHY                        |   |
| GEOG/WGST/ENR 4150                            | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^) |   |
| GEOG 4160                                     | URBAN SUSTAINABILITY (^)                   |   |

|  |   |               |
|--|---|---------------|
| GEOG 4170  | ADVANCED CULTURAL GEOGRAPHY                         |               |
| GEOG/WGST 4210   | GEOGRAPHIES OF SEXUALITIES                          |               |
| GEOG 4550  | GEOGRAPHY OF THE WORLD ECONOMY                      |               |
| GEOG/ENVN/BIOL 4820  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |               |
| <b>Choose at least one course in Global Perspectives</b>   |   | <b>3</b>      |
| GEOG 3000  | TRAVEL STUDY IN GEOGRAPHY                           |               |
| GEOG/BLST 3030   | GEOGRAPHY OF AFRICA (^)                             |               |
| GEOG 3050  | GEOGRAPHY IN FILM (^)                               |               |
| GEOG/LLS 3070  | GEOGRAPHY OF LATIN AMERICA (^)                      |               |
| GEOG 3080  | EAST & SOUTHEAST ASIA (^)                           |               |
| GEOG 3230  | GEOGRAPHY OF EUROPE (^)                             |               |
| GEOG 3240  | GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^)           |               |
| <b>Choose at least one course in North American Perspectives</b>   |   | <b>3</b>      |
| GEOG 3330  | UNITED STATES & CANADA (^)                          |               |
| GEOG 4230  | GREAT PLAINS & NEBRASKA                             |               |
| GEOG 4530  | HISTORICAL GEOGRAPHY OF THE UNITED STATES (^)       |               |
| <b>Choose at least one course in Geospatial Science</b>  |   | <b>3</b>      |
| GEOG 2620  | AERIAL PHOTOGRAPHIC INTERPRETATION                  |               |
| GEOG 4020  | SPATIAL ANALYSIS IN GEOGRAPHY                       |               |
| GEOG 4030  | COMPUTER MAPPING AND VISUALIZATION (^)              |               |
| GEOG 4050  | GEOGRAPHIC INFORMATION SYSTEMS I (^)                |               |
| GEOG 4630  | ENVIRONMENTAL REMOTE SENSING (^)                    |               |
| GEOG 4660  | GEOGRAPHIC INFORMATION SYSTEMS II (^)               |               |
| <b>College Breadth (choose one option)</b>   |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |   |               |
| Option 2: Additional General Education Requirements - 18+ hours  |   |               |
| Additional quantitative literacy - 3 hours   |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |   |               |
| HIST 1000 and HIST 1010 - 6 hours  |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)  |   |               |
| <b>Bachelor of Science Cognate Requirement</b>   |   | <b>15</b>     |
| In consultation with a departmental advisor, students select 15 credits of complementary coursework, with at least 6 credits from approved computer science courses. |   |               |
| <b>ELECTIVES</b>   |   |               |
| Elective hours as required to reach a total of 120 hours   |   |               |

## Geography, Bachelor of Science Optional Concentrations

Geography majors have the option to declare a concentration. Students pursuing the Bachelor of Science degree may choose an optional concentration in one of the following areas: Geographic Information Science and Technology, Travel and Tourism, or Physical Geography. Each

concentration requires a minimum of 15 credit hours. Courses used to fulfill concentration requirements may also be applied toward the Geography major's requirements, where appropriate.

- Geographic Information Science and Technology Concentration (p. 150)
- Travel and Tourism Concentration (p. 153)
- Physical Geography Concentration (p. 152)

## Geography, Bachelor of Science Four Year Plan

### Freshman

| Fall  |  | Credits   |
|---|--|-----------|
| GEOG 1020   | INTRODUCTION TO HUMAN GEOGRAPHY                        | 3         |
| GEOG 1030   | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY | 4         |
| ENGL 1150   | ENGLISH COMPOSITION I                                  | 3         |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                           | 4         |
| General Education Course or Elective  |  | 3         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |           |
| <b>Credits</b>  |  | <b>17</b> |

### Spring

|  |  |           |
|--|--|-----------|
| GEOG 1000  | WORLD REGIONAL GEOGRAPHY                             | 3         |
| GEOG 1050  | HUMAN-ENVIRONMENT GEOGRAPHY                          | 4         |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3         |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| STAT 1530  | ELEMENTARY STATISTICS                                | 3         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |  |           |
| <b>Credits</b>   |  | <b>16</b> |

### Sophomore

| Fall   |   | Credits   |
|--|---|-----------|
| CIST 1300  | INTRODUCTION TO WEB DEVELOPMENT (or other approved computer science course) | 3.00      |
| General Education Course or Elective   |   | 3         |
| General Education Course or Elective   |   | 3         |
| Elective Course  |   | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |   |           |
| <b>Credits</b>   |   | <b>12</b> |

### Spring

|  |                                    |   |
|--|------------------------------------|---|
| GEOG 3530                                | CARTOGRAPHY AND DATA VISUALIZATION | 4 |
| Advisor-approved computer science course |                                    | 3 |

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
| General Education Course or Elective | 3 |
| General Education Course or Elective | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits** **16**

### Junior

#### Fall

|                                      |     |
|--------------------------------------|-----|
| General Education Course or Elective | 3   |
| Physical Geography Course            | 3-4 |
| Global Perspectives Geography Course | 3   |
| Cognate Course                       | 3   |
| Elective                             | 3   |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15-16**

#### Spring

|                                      |   |
|--------------------------------------|---|
| Human Geography Course               | 3 |
| General Education Course or Elective | 3 |
| General Education Course or Elective | 3 |
| Cognate Course                       | 3 |
| Elective                             | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

### Senior

#### Fall

|  |     |
|--|-----|
| North American Perspectives Geography Course | 3   |
| Geospatial Science Course                    | 3-4 |
| General Education Course or Elective         | 3   |
| Cognate Course or Elective                   | 3   |
| Elective                                     | 3   |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15-16**

#### Spring

|           |                            |   |
|-----------|----------------------------|---|
| GEOG 4620 | GEOGRAPHICAL FIELD STUDIES | 3 |
| Elective  |                            | 3 |
| Elective  |                            | 3 |
| Elective  |                            | 3 |
| Elective  |                            | 2 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **14**

**Total Credits** **120-122**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Geographic Information Science and Technology Concentration

### Geography, Bachelor of Science with a Concentration in Geographic Information Science and Technology Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                             |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY         |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE |           |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Geography Major with a Concentration in Geographic Information Science and Technology - 39-55 Hours Required****Required Coursework 24**

|           |   |
|-----------|---|
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY (**)   |
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY (**)  |
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)   |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (** ^)  |
| GEOG 3530 | CARTOGRAPHY AND DATA VISUALIZATION  |
| GEOG 4620 | GEOGRAPHICAL FIELD STUDIES (Can also apply to the upper-level Global or North American category, depending on the field study destination) <sup>1</sup> |
| STAT 1530 | ELEMENTARY STATISTICS (** ^)  |

**1 Geographical Field Studies Requirement**

Optional method of completing GEOG 4620: Students who have completed study abroad, or military service for more than six months outside the USA can complete the course without going on the multiple day field trip. Contact the department for the details regarding this alternative method.

**GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY CONCENTRATION**

Required coursework:

**Select 9 credit hours of computer science coursework in consultation with an advisor. 9****Select one of the following Mathematics options: 3-7**

|              |                                  |
|--------------|----------------------------------|
| MATH 1300    | COLLEGE ALGEBRA WITH SUPPORT (^) |
| or MATH 1320 | COLLEGE ALGEBRA                  |

AND

|           |                  |
|-----------|------------------|
| MATH 1330 | TRIGONOMETRY (^) |
|-----------|------------------|

or one of the following:

|           |  |
|-----------|--|
| MATH 1340 | ALGEBRA AND TRIGONOMETRY FOR CALCULUS (^)                  |
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1950 | CALCULUS I (^)   |

**Additionally, select one of the following\* 3-4**

|           |  |
|-----------|--|
| GEOG 4020 | SPATIAL ANALYSIS IN GEOGRAPHY (^)      |
| GEOG 4030 | COMPUTER MAPPING AND VISUALIZATION (^) |
| GEOG 4050 | GEOGRAPHIC INFORMATION SYSTEMS I (^)   |
| GEOG 4660 | GEOGRAPHIC INFORMATION SYSTEMS II (^)  |

\*Can double-count with Geospatial Science requirement below

**GEOGRAPHY DIVERSITY REQUIREMENTS**

Select a minimum of one course from each of the groups of Geography Diversity courses below:

**Choose at least one course in Physical Geography 3-4**

|                          |   |
|--------------------------|---|
| GEOG 3440                | NEBRASKA NATURAL RESOURCES MANAGEMENT (^)                     |
| GEOG 3510 & GEOG 3514    | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (** ^) |
| GEOG 4010                | CONSERVATION OF NATURAL RESOURCES                             |
| GEOG/GEOL 4040           | GEOARCHAEOLOGY  |
| GEOG/BIO/GEOL 4100       | BIOGEOGRAPHY (^)  |
| GEOG/GEOL 4200           | WATER QUALITY   |
| GEOG/GEOL 4260           | PROCESS GEOMORPHOLOGY   |
| GEOG 4320                | CLIMATOLOGY   |
| GEOG/GEOL 4330           | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION                   |
| GEOG 4340                | WATER RESOURCES   |
| GEOG/ENVN 4350           | GLOBAL CLIMATE CHANGE   |
| GEOG/ENVN/GEOL/BIO/ 4610 | ENVIRONMENTAL MONITORING AND ASSESSMENT                       |
| GEOG/GEOL 4640           | CRITICAL ZONE SCIENCE   |

**Choose at least one course in Human Geography 3**

|                      |   |
|----------------------|---|
| GEOG 3020            | HEALTH & MEDICAL GEOGRAPHY                          |
| GEOG/ECON 3130       | ECONOMIC GEOGRAPHY                                  |
| GEOG 3440            | NEBRASKA NATURAL RESOURCES MANAGEMENT (^)           |
| GEOG 4010            | CONSERVATION OF NATURAL RESOURCES                   |
| GEOG 4120            | URBAN GEOGRAPHY                                     |
| GEOG 4130            | POLITICAL GEOGRAPHY                                 |
| GEOG/WGST/ ENTR 4150 | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)          |
| GEOG 4160            | URBAN SUSTAINABILITY (^)                            |
| GEOG 4170            | ADVANCED CULTURAL GEOGRAPHY                         |
| GEOG/WGST 4210       | GEOGRAPHIES OF SEXUALITIES                          |
| GEOG 4550            | GEOGRAPHY OF THE WORLD ECONOMY                      |
| GEOG/BIO/ENVN 4820   | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |

**Choose at least one course in Global Perspectives 3**

|                |                           |
|----------------|---------------------------|
| GEOG 3000      | TRAVEL STUDY IN GEOGRAPHY |
| GEOG/BLST 3030 | GEOGRAPHY OF AFRICA (^)   |

|               |   |
|---------------|---|
| GEOG 3050     | GEOGRAPHY IN FILM (^)                     |
| GEOG/LLS 3070 | GEOGRAPHY OF LATIN AMERICA (^)            |
| GEOG 3080     | EAST & SOUTHEAST ASIA (^)                 |
| GEOG 3230     | GEOGRAPHY OF EUROPE (^)                   |
| GEOG 3240     | GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^) |

**Choose at least one course in North American Perspectives** **3**

|           |   |
|-----------|---|
| GEOG 3330 | UNITED STATES & CANADA (^)                    |
| GEOG 4230 | GREAT PLAINS & NEBRASKA                       |
| GEOG 4530 | HISTORICAL GEOGRAPHY OF THE UNITED STATES (^) |

**Choose at least one course in Geospatial Science** **3**

|           |  |
|-----------|--|
| GEOG 2620 | AERIAL PHOTOGRAPHIC INTERPRETATION     |
| GEOG 4020 | SPATIAL ANALYSIS IN GEOGRAPHY          |
| GEOG 4030 | COMPUTER MAPPING AND VISUALIZATION (^) |
| GEOG 4050 | GEOGRAPHIC INFORMATION SYSTEMS I (^)   |
| GEOG 4630 | ENVIRONMENTAL REMOTE SENSING (^)       |
| GEOG 4660 | GEOGRAPHIC INFORMATION SYSTEMS II (^)  |

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Requirement** **15**

In consultation with a departmental advisor, students select 15 credits of complementary coursework, with at least 6 credits from approved computer science courses.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Physical Geography Concentration

### Geography, Bachelor of Science with a Concentration in Physical Geography Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of "C-" required                                  |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |       |           |

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility** **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Geography Major with a Concentration in Physical Geography - 48-61 Hours Required**

**Required Coursework** **24**

|           |   |
|-----------|---|
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY (**)   |
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY (**)  |
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)   |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (** ^)  |
| GEOG 3530 | CARTOGRAPHY AND DATA VISUALIZATION  |
| GEOG 4620 | GEOGRAPHICAL FIELD STUDIES (Can also apply to the upper-level Global or North American category, depending on the field study destination) <sup>1</sup> |
| STAT 1530 | ELEMENTARY STATISTICS (**^)   |

**1 Geographical Field Studies Requirement**

Optional method of completing GEOG 4620: Students who have completed study abroad, or military service for more than six months outside the USA can complete the course without going on the multiple day field trip. Contact the department for the details regarding this alternative method.

**Required Course:** **4**

|           |                                       |
|-----------|---------------------------------------|
| GEOG 1170 | INTRODUCTION TO PHYSICAL GEOLOGY (**) |
|-----------|---------------------------------------|

**Select one of the following Mathematics courses:** **3-5**



|  |   |
|--|---|
| MATH 1930  | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)  |
| MATH 1950  | CALCULUS I (^)  |
| <b>GEOGRAPHY DIVERSITY REQUIREMENTS FOR PHYSICAL GEOGRAPHY CONCENTRATION</b> |   |
| Only one course may count toward additional majors.                          |   |
| <b>Select at least three courses in Physical Geography</b>                   |   |
| GEOG 3440  | NEBRASKA NATURAL RESOURCES MANAGMENT                        |
| GEOG 3510 & GEOG 3514  | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (**) |
| GEOG 4010  | CONSERVATION OF NATURAL RESOURCES                           |
| GEOG/GEOL 4040   | GEOARCHAEOLOGY  |
| GEOG/BIOL/GEOL 4100  | BIOGEOGRAPHY  |
| GEOG/GEOL 4200   | WATER QUALITY (^)   |
| GEOG 4260  | PROCESS GEOMORPHOLOGY                                       |
| GEOG 4320  | CLIMATOLOGY   |
| GEOG/GEOL 4330   | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)             |
| GEOG 4340  | WATER RESOURCES (^)   |
| GEOG/ENVN 4350   | GLOBAL CLIMATE CHANGE (^)                                   |
| GEOG/ENVN/GEOL/BIOL 4610   | ENVIRONMENTAL MONITORING AND ASSESSMENT                     |
| GEOG/GEOL 4640   | CRITICAL ZONE SCIENCE                                       |
| <b>Choose at least one course in Human Geography</b>                         |   |
| GEOG 3020  | HEALTH & MEDICAL GEOGRAPHY (^)                              |
| GEOG/ECON 3130   | ECONOMIC GEOGRAPHY  |
| GEOG 3440  | NEBRASKA NATURAL RESOURCES MANAGMENT (^)                    |
| GEOG 4010  | CONSERVATION OF NATURAL RESOURCES                           |
| GEOG 4120  | URBAN GEOGRAPHY   |
| GEOG 4130  | POLITICAL GEOGRAPHY (^)                                     |
| GEOG/WGST/ENTR 4150  | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)                  |
| GEOG 4160  | URBAN SUSTAINABILITY (^)                                    |
| GEOG 4170  | ADVANCED CULTURAL GEOGRAPHY                                 |
| GEOG/WGST 4210   | GEOGRAPHIES OF SEXUALITIES                                  |
| GEOG 4550  | GEOGRAPHY OF THE WORLD ECONOMY (^)                          |
| GEOG/ENVN/BIOL 4820  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)         |
| <b>Choose at least one course in Global Perspectives</b>                     |   |
| GEOG 3000  | TRAVEL STUDY IN GEOGRAPHY                                   |
| GEOG/BLST 3030   | GEOGRAPHY OF AFRICA (^)                                     |
| GEOG 3050  | GEOGRAPHY IN FILM (^)                                       |
| GEOG/LLS 3070  | GEOGRAPHY OF LATIN AMERICA (^)                              |
| GEOG 3080  | EAST & SOUTHEAST ASIA (^)                                   |
| GEOG 3230  | GEOGRAPHY OF EUROPE (^)                                     |
| GEOG 3240  | GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^)                   |
| <b>Choose at least one course in North American Perspectives</b>             |   |
| GEOG 3330  | UNITED STATES & CANADA (^)                                  |
| GEOG 4230  | GREAT PLAINS & NEBRASKA                                     |

|  |   |
|--|---|
| GEOG 4530  | HISTORICAL GEOGRAPHY OF THE UNITED STATES (^) |
| <b>Choose at least one course in Geospatial Science</b>  |   |
| GEOG 2620  | AERIAL PHOTOGRAPHIC INTERPRETATION            |
| GEOG 4020  | SPATIAL ANALYSIS IN GEOGRAPHY                 |
| GEOG 4030  | COMPUTER MAPPING AND VISUALIZATION (^)        |
| GEOG 4050  | GEOGRAPHIC INFORMATION SYSTEMS I (^)          |
| GEOG 4630  | ENVIRONMENTAL REMOTE SENSING (^)              |
| GEOG 4660  | GEOGRAPHIC INFORMATION SYSTEMS II (^)         |
| NOTE: Recommended minors include Physics, Chemistry, Geology, Biology, Environmental Science, Sustainability, Emergency Management & Disaster Science                |   |
| <b>College Breadth (choose one option)</b>   |   |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |   |
| Option 2: Additional General Education Requirements - 18+ hours  |   |
| Additional quantitative literacy - 3 hours   |   |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |   |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |   |
| HIST 1000 and HIST 1010 - 6 hours  |   |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |   |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)  |   |
| <b>Bachelor of Science Cognate Requirement</b>   |   |
| In consultation with a departmental advisor, students select 15 credits of complementary coursework, with at least 6 credits from approved computer science courses. |   |
| <b>ELECTIVES</b>   |   |
| Elective hours as required to reach a total of 120 hours   |   |

## Travel and Tourism Concentration

### Geography, Bachelor of Science with a Concentration in Travel and Tourism Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |



|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Geography Major with a Concentration in Travel and Tourism- 39-61 Hours Required****Required Coursework 24**

|           |   |
|-----------|---|
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY (**)   |
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY (**)  |
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)   |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (** ^)  |
| GEOG 3530 | CARTOGRAPHY AND DATA VISUALIZATION  |
| GEOG 4620 | GEOGRAPHICAL FIELD STUDIES (Can also apply to the upper-level Global or North American category, depending on the field study destination) <sup>1</sup> |
| STAT 1530 | ELEMENTARY STATISTICS (** ^)  |

**1 Geographical Field Studies Requirement**

Optional method of completing GEOG 4620: Students who have completed study abroad, or military service for more than six months outside the USA can complete the course without going on the multiple day field trip. Contact the department for the details regarding this alternative method.

**TRAVEL AND TOURISM CONCENTRATION****Required Course 3**

|           |                           |
|-----------|---------------------------|
| GEOG 3000 | TRAVEL STUDY IN GEOGRAPHY |
|-----------|---------------------------|

**Select four of the following\* 12**

|                |                                       |
|----------------|---------------------------------------|
| ECON 1200      | SURVEY OF ECONOMICS (** ^)            |
| or ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO)       |
| or ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO)       |
| GEOG/ECON 3130 | ECONOMIC GEOGRAPHY                    |
| GEOG 3230      | GEOGRAPHY OF EUROPE                   |
| GEOG 3240      | GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS |
| GEOG 3330      | UNITED STATES & CANADA                |

|           |                         |
|-----------|-------------------------|
| GEOG 4230 | GREAT PLAINS & NEBRASKA |
|-----------|-------------------------|

|           |                            |
|-----------|----------------------------|
| GEOG 4620 | GEOGRAPHICAL FIELD STUDIES |
|-----------|----------------------------|

\*Can double-count with Geography diversity courses below

**GEOGRAPHY DIVERSITY REQUIREMENTS**

Select a minimum of one course from each of the groups of Geography Diversity courses below

**Choose at least one course in Physical Geography 3-4**

|                          |   |
|--------------------------|---|
| GEOG 3440                | NEBRASKA NATURAL RESOURCES MANAGEMENT (^)                     |
| GEOG 3510 & GEOG 3514    | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (** ^) |
| GEOG 4010                | CONSERVATION OF NATURAL RESOURCES                             |
| GEOG/GEOL 4040           | GEOARCHAEOLOGY  |
| GEOG/BIOL/GEOL 4100      | BIOGEOGRAPHY (^)  |
| GEOG/GEOL 4200           | WATER QUALITY   |
| GEOG/GEOL 4260           | PROCESS GEOMORPHOLOGY   |
| GEOG 4320                | CLIMATOLOGY   |
| GEOG/GEOL 4330           | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION                   |
| GEOG 4340                | WATER RESOURCES   |
| GEOG/ENVN 4350           | GLOBAL CLIMATE CHANGE   |
| GEOG/ENVN/GEOL/BIOL 4610 | ENVIRONMENTAL MONITORING AND ASSESSMENT                       |
| GEOG/GEOL 4640           | CRITICAL ZONE SCIENCE   |

**Choose at least one course in Human Geography 3**

|                     |   |
|---------------------|---|
| GEOG 3020           | HEALTH & MEDICAL GEOGRAPHY                          |
| GEOG/ECON 3130      | ECONOMIC GEOGRAPHY                                  |
| GEOG 3440           | NEBRASKA NATURAL RESOURCES MANAGEMENT (^)           |
| GEOG 4010           | CONSERVATION OF NATURAL RESOURCES                   |
| GEOG 4120           | URBAN GEOGRAPHY                                     |
| GEOG 4130           | POLITICAL GEOGRAPHY                                 |
| GEOG/WGST/ENTR 4150 | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)          |
| GEOG 4160           | URBAN SUSTAINABILITY (^)                            |
| GEOG 4170           | ADVANCED CULTURAL GEOGRAPHY                         |
| GEOG/WGST 4210      | GEOGRAPHIES OF SEXUALITIES                          |
| GEOG 4550           | GEOGRAPHY OF THE WORLD ECONOMY                      |
| GEOG/BIOL/ENVN 4820 | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |

**Choose at least one course in Global Perspectives 3**

|                |   |
|----------------|---|
| GEOG 3000      | TRAVEL STUDY IN GEOGRAPHY                 |
| GEOG/BLST 3030 | GEOGRAPHY OF AFRICA (^)                   |
| GEOG 3050      | GEOGRAPHY IN FILM (^)                     |
| GEOG/LLS 3070  | GEOGRAPHY OF LATIN AMERICA (^)            |
| GEOG 3080      | EAST & SOUTHEAST ASIA (^)                 |
| GEOG 3230      | GEOGRAPHY OF EUROPE (^)                   |
| GEOG 3240      | GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^) |

**Choose at least one course in North American Perspectives 3**

|           |   |
|-----------|---|
| GEOG 3330 | UNITED STATES & CANADA (North American Perspectives:) |
| GEOG 4230 | GREAT PLAINS & NEBRASKA                               |

|  |  |               |
|--|--|---------------|
| GEOG 4530  | HISTORICAL GEOGRAPHY OF THE UNITED STATES (North American Perspectives;) |               |
| <b>Choose at least one course in Geospatial Science</b>  |  | <b>3</b>      |
| GEOG 2620  | AERIAL PHOTOGRAPHIC INTERPRETATION                                       |               |
| GEOG 4020  | SPATIAL ANALYSIS IN GEOGRAPHY  |               |
| GEOG 4030  | COMPUTER MAPPING AND VISUALIZATION (^)                                   |               |
| GEOG 4050  | GEOGRAPHIC INFORMATION SYSTEMS I (^)                                     |               |
| GEOG 4630  | ENVIRONMENTAL REMOTE SENSING (^)   |               |
| GEOG 4660  | GEOGRAPHIC INFORMATION SYSTEMS II (^)                                    |               |
| <b>College Breadth (choose one option)</b>   |  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |  |               |
| Option 2: Additional General Education Requirements - 18+ hours  |  |               |
| Additional quantitative literacy - 3 hours   |  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |  |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |  |               |
| HIST 1000 and HIST 1010 - 6 hours  |  |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |  |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)  |  |               |
| <b>Bachelor of Science Cognate Requirement</b>   |  | <b>15</b>     |
| In consultation with a departmental advisor, students select 15 credits of complementary coursework, with at least 6 credits from approved computer science courses. |  |               |
| <b>ELECTIVES</b>   |  |               |
| Elective hours as required to reach a total of 120 hours   |  |               |

## Geography Minor

### Geography Minor Requirements

Available on campus and online.

A minor in geography requires a minimum of 16 credit hours. Required coursework includes:

| Code   | Title  | Credits  |
|--|--|----------|
| <b>All of the following</b>  |  | <b>3</b> |
| GEOG 1000<br>or GEOG 1020  | WORLD REGIONAL GEOGRAPHY<br>INTRODUCTION TO HUMAN GEOGRAPHY  |          |
| <b>Choose one of the following:</b>  |  | <b>4</b> |
| GEOG 1030  | OUR DYNAMIC PLANET:<br>INTRODUCTION TO PHYSICAL<br>GEOGRAPHY |          |
| GEOG 1050  | HUMAN-ENVIRONMENT GEOGRAPHY                                  |          |
| GEOG 1090  | INTRODUCTION TO GEOSPATIAL<br>SCIENCES                       |          |
| <b>Select a minimum of 9 credit hours of geography coursework at the 3000 level or higher.</b> |  | <b>9</b> |

## Geology

The Geology Program in the Department of Geography/Geology at UNO is dedicated to educating students in the Geological Sciences. This program not only prepares students for a variety of geoscience careers, but also provides a broad education in the Arts & Sciences, which prepares students for careers in other fields and areas.

## Other Information

All coursework taken for a Geology major or minor must be completed with a grade of "C-" or better.

Geography majors pursuing a minor in Geology or Geology majors pursuing a minor in Geography may not use more than 3 credits of 3000-4000 level GEOG/GEOL courses toward both programs.

For the GEOL BS/BA and ENVN minor, no 3000/4000 level courses may overlap.

Environmental Studies - Earth Sciences majors and Geology minor: GEOL 1170 and one 2000-level or higher course may count toward both programs.

Environmental Studies - Earth Sciences majors and Geography minor: only one upper-level GEOG/GEOL course may count toward both programs.

## Student Groups

University of Nebraska-Omaha Geoscience Society (UNOGS) (<https://www.unomaha.edu/college-of-arts-and-sciences/geology/student-opportunities/student-organizations.php>)

## Contact

260 DSC  
402.554.2662

**Website (<http://www.unomaha.edu/college-of-arts-and-sciences/geology/>)**

## Degrees Offered

- Geology, Bachelor of Arts (p. 156)
- Geology, Bachelor of Science (p. 160)

## Minors Offered

- Geology Minor (p. 165)

Graduates from UNO's Geology Program will be well-prepared to enter the workforce and pursue a career in the geosciences field. This could include working in the environmental geology and environmental engineering field, the exploration for energy and mineral resources, the policy and education areas, as well as being prepared to continue on to graduate school. Because our graduates are educated in the broad sciences as well as Geology, they are also uniquely qualified for careers outside of traditional fields (for example, environmental law, administrative positions in science related organizations, K-12 education, etc.).

- Environmental Consulting and Engineering Firms
- Groundwater Management
- Petroleum Exploration
- Geology/Earth Science Education
- Mineral Exploration
- Natural Resource Management

- Museums/Curation of Fossils
- National Park Education or Research

## Geology, Bachelor of Arts

To obtain a B.A. with a major in Geology, a student must fulfill university, college, and departmental requirements.

## Geology, Bachelor of Arts - Geology General Track Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Geology Major, General Geology - 63-65 Hours Required</b>  |   |           |
| <b>Required Coursework</b>  |   | <b>28</b> |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY (**)                   |           |
| GEOL 1180   | INTRODUCTION TO HISTORICAL GEOLOGY (^)                  |           |
| GEOL 2300   | GEOSCIENCE DATA ANALYSIS AND MODELING (^)               |           |
| GEOL 2750 & GEOL 2754   | MINERALOGY and MINERALOGY LABORATORY (^)                |           |

|   |   |               |
|---|---|---------------|
| GEOL 3300 & GEOL 3310   | STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS (^)                               |               |
| GEOL 3400   | INTRODUCTION TO SEDIMENTARY GEOLOGY (^)   |               |
| GEOL 4620   | ADVANCED FIELD COURSE (^)   |               |
| <b>Select one of the following</b>  |   | <b>4</b>      |
| GEOL/GEOG 4260  | PROCESS GEOMORPHOLOGY (^)   |               |
| GEOL/GEOG 4640  | CRITICAL ZONE SCIENCE (^)   |               |
| GEOL/GEOG 4330  | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)   |               |
| <b>Select one of the following</b>  |   | <b>3</b>      |
| GEOL 4800   | INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE (^)                          |               |
| GEOL 4950   | SENIOR THESIS (^)   |               |
| <b>Additional Geology or Geography courses in consultation with advisor</b>       |   | <b>12</b>     |
| <b>An approved Statistics course</b>  |   | <b>3</b>      |
| <b>Other required coursework</b>  |   | <b>10</b>     |
| CHEM 1140 & CHEM 1144   | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) |               |
| PHYS 1110 & PHYS 1154   | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^)                        |               |
| <b>Select one of the following options</b>  |   | <b>3-5</b>    |
| PHYS 1120 & PHYS 1164   | PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II                             |               |
| OR  |   |               |
| GEOL 4400   | GEOPHYSICS (^)  |               |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours         |   |               |
| Option 2: Additional General Education Requirements - 18+ hours                   |   |               |
| Additional quantitative literacy -3 hours   |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |   |               |
| HIST 1000 and HIST 1010 - 6 hours   |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |   |               |
| <b>Bachelor of Arts Language Requirement</b>                                      |   | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |   |               |
| <b>ELECTIVES</b>  |   |               |
| Elective hours as required to reach a total of 120 hours                          |   |               |

## Geology, Bachelor of Arts - Geology Career Track Requirements

## Geology, Bachelor of Arts - Geology Career Track Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                       |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                   |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                       |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                    |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING     |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                       |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS         |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                             |           |
| STAT 1530   | ELEMENTARY STATISTICS                                       |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs  |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Geology Major, Geology Career - 65-74 Hours Required</b>   |   |           |
| <b>Required Coursework</b>  |   | <b>28</b> |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY (**)                       |           |
| GEOL 1180   | INTRODUCTION TO HISTORICAL GEOLOGY (^)                      |           |
| GEOL 2300   | GEOSCIENCE DATA ANALYSIS AND MODELING (^)                   |           |
| GEOL 2750 & GEOL 2754   | MINERALOGY and MINERALOGY LABORATORY (^)                    |           |
| GEOL 3300 & GEOL 3310   | STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS (^) |           |
| GEOL 3400   | INTRODUCTION TO SEDIMENTARY GEOLOGY (^)                     |           |
| GEOL 4620   | ADVANCED FIELD COURSE (^)                                   |           |
| <b>Select one of the following</b>  |   | <b>4</b>  |
| GEOL/GEOG 4260  | PROCESS GEOMORPHOLOGY (^)                                   |           |
| GEOL/GEOG 4640  | CRITICAL ZONE SCIENCE (^)                                   |           |

|   |  |               |
|---|--|---------------|
| GEOL/GEOG 4330  | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)                          |               |
| <b>Select one of the following</b>  |  | <b>3</b>      |
| GEOL 4800   | INTERNSHIP IN ENVIRONMENTAL/REGIONAL PLANNING/EARTH SCIENCE (^)          |               |
| GEOL 4950   | SENIOR THESIS (^)  |               |
| <b>Additional Geology or Geography courses in consultation with advisor - 12 Hours Required</b> |  | <b>12</b>     |
| <b>Required Chemistry Lecture and Lab:</b>  |  | <b>4</b>      |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)            |               |
| <b>Additionally, select one of the following Chemistry options</b>                              |  | <b>3-4</b>    |
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)             |               |
| OR  |  |               |
| GEOL/CHEM 4540  | GEOCHEMISTRY (^)   |               |
| <b>Select one of the following Mathematics options</b>  |  | <b>3-9</b>    |
| MATH 1950   | CALCULUS I (^)   |               |
| MATH 1960   | CALCULUS II  |               |
| OR  |  |               |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)               |               |
| <b>Required Physics Lecture and Lab</b>   |  | <b>5</b>      |
| PHYS 2110 & PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (**) |               |
| <b>Additionally, select one of the following Physics options</b>                                |  | <b>3-5</b>    |
| PHYS 2120 & PHYS 1164   | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II (^)  |               |
| OR  |  |               |
| GEOL/PHYS 4400  | GEOPHYSICS   |               |
| <b>College Breadth (choose one option)</b>  |  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours                       |  |               |
| Option 2: Additional General Education Requirements - 18+ hours                                 |  |               |
| Additional quantitative literacy - 3 hours  |  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours                            |  |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                                |  |               |
| HIST 1000 and HIST 1010 - 6 hours   |  |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                              |  |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)               |  |               |
| <b>Bachelor of Arts Language Requirement</b>  |  | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120   |  |               |
| <b>ELECTIVES</b>  |  |               |
| Elective hours as required to reach a total of 120 hours  |  |               |

## Geology, Bachelor of Arts - General Track Four Year Plan

Geology, Bachelor of Arts - General Track Four Year Plan

**Freshman**

|                           |  | Credits |
|---------------------------|--|---------|
| <b>Fall</b>               |  |         |
| ENGL 1150                 | ENGLISH COMPOSITION I                              | 3       |
| MATH 1300<br>or MATH 1320 | COLLEGE ALGEBRA WITH SUPPORT<br>or COLLEGE ALGEBRA | 3-4     |
| GEOL 1170                 | INTRODUCTION TO PHYSICAL GEOLOGY                   | 4       |
| World Language 1110       |  | 5       |

Attend Durango Days; other campus events.

Set up a Handshake account and take the Pathway U career assessment.

Attend the Student Involvement & Volunteer Fair to explore student organizations.

Make advising appointment for spring: Sept-Oct.

**Credits 15-16**

**Spring**

|                          |   |   |
|--------------------------|---|---|
| GEOL 1180                | INTRODUCTION TO HISTORICAL GEOLOGY  | 4 |
| CHEM 1140<br>& CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY | 5 |
| World Language 1120      |   | 5 |
| ENGL 1160                | COLLEGE RESEARCH AND INFORMATION LITERACY   | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths.

Schedule a resume review with UNO Career Services.

Visit faculty office hours and ask about undergraduate research opportunities.

Make advising appointment for summer and fall: February – March.

**Credits 17**

**Sophomore**

|                                      |  |   |
|--------------------------------------|--|---|
| <b>Fall</b>                          |  |   |
| GEOL 2750<br>& GEOL 2754             | MINERALOGY<br>and MINERALOGY LABORATORY              | 4 |
| GEOL 2300                            | GEOSCIENCE DATA ANALYSIS AND MODELING                | 3 |
| CMST 1110<br>or CMST 2120            | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3 |
| World Language 2110                  |  | 3 |
| General Education Course or Elective |  | 3 |

Attend a career fair for informational and networking purposes.

Update your resume and LinkedIn profile with new experiences.

Investigate and apply for summer internships, research, or study abroad programs.

Make advising appointment for summer and fall: February – March.

**Credits 16**

**Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| PHYS 1110<br>& PHYS 1154             | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I | 5 |
| Approved GEOL Elective               |  | 3 |
| World Language 2120                  |  | 3 |
| General Education Course or Elective |  | 4 |

Attend a career fair for informational and networking purposes.

Update your resume and LinkedIn profile with new experiences.

Investigate and apply for summer internships, research, or study abroad programs.

Make advising appointment for summer and fall: February – March.

**Credits 15**

**Junior**

|                          |   |   |
|--------------------------|---|---|
| <b>Fall</b>              |   |   |
| GEOL 3400                | INTRODUCTION TO SEDIMENTARY GEOLOGY                                     | 3 |
| PHYS 1120<br>& PHYS 1164 | PHYSICS FOR LIFE SCIENCE II<br>and GENERAL PHYSICS LABORATORY II<br>(*) | 5 |

General Education Course or Elective 3

General Education Course or Elective 3

\*Students may take GEOL 4400 Geophysics or PHYS 1120-1164

Apply for a paid internship or research assistantship.

Attend a mock interview workshop or use online interview tools with Career Services.

Start researching and visiting graduate programs or professional schools.

Visit Career Center, continue updating resume.

Make advising appointment for spring: Sept-Oct.

**Credits 14**

**Spring**

|   |   |   |
|---|---|---|
| GEOL 3300<br>& GEOL 3310                  | STRUCTURAL GEOLOGY<br>and STRUCTURAL GEOLOGY FIELD METHODS  | 4 |
| GEOL 4260<br>or GEOL 4640<br>or GEOL 4330 | PROCESS GEOMORPHOLOGY (or an approved GEOL elective)<br>or CRITICAL ZONE SCIENCE<br>or SOIL GENESIS, MORPHOLOGY<br>AND CLASSIFICATION | 4 |

Any approved statistics course 3

General Education Course or Elective 3

Request letters of recommendation from faculty for jobs or grad school.

Attend the All-Majors Career Fair with a plan to network.

Meet with your advisor or submit for a graduation check-in to review remaining degree requirements.

Make advising appointment for summer and fall: February – March.

**Credits 14**

**Summer**

|           |                       |   |
|-----------|-----------------------|---|
| GEOL 4620 | ADVANCED FIELD COURSE | 6 |
|-----------|-----------------------|---|

**Credits 6**

**Senior**

|                                      |  |   |
|--------------------------------------|--|---|
| <b>Fall</b>                          |  |   |
| Approved GEOL Elective               |  | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |

Check in with Career Center for networking tips.

Finalize graduate school applications or job search strategy.

Attend a career fair and start applying for full-time jobs.

Prepare for interviews and salary negotiations with Career Services.

|   |  |                |
|---|--|----------------|
| Make advising appointment for spring: Sept. - Oct.  |  |                |
|   | <b>Credits</b>   | <b>12</b>      |
| <b>Spring</b>   |  |                |
| GEOL 4260<br>or GEOL 4330<br>or GEOL 4640   | PROCESS GEOMORPHOLOGY (or an approved GEOL elective)<br>or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION<br>or CRITICAL ZONE SCIENCE | 4              |
| GEOL 4950<br>or GEOG 4800   | SENIOR THESIS<br>or INTERNSHIP IN ENVIRONMENTAL REGIONAL PLANNING EARTH SCIENCE  | 3              |
| General Education Course or Elective  |  | 3              |
| Elective  |  | 1-2            |
| Complete your final advising check before graduation.<br>Polish your resume, cover letters, and LinkedIn profile. |  |                |
| Stay connected by joining alumni networks and professional organizations.   |  |                |
| Apply for graduation via MavLink.   |  |                |
|   | <b>Credits</b>   | <b>11-12</b>   |
|   | <b>Total Credits</b>   | <b>120-122</b> |

## Geology, Bachelor of Arts - Career Track Four Year Plan

### Freshman

|   |  |                |
|---|--|----------------|
|   |  | <b>Credits</b> |
| <b>Fall</b>   |  |                |
| ENGL 1150   | ENGLISH COMPOSITION I                              | 3              |
| MATH 1300<br>or MATH 1320   | COLLEGE ALGEBRA WITH SUPPORT<br>or COLLEGE ALGEBRA | 3-4            |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY                   | 4              |
| General Education Course or Elective  |  | 3              |
| Attend Durango Days; other campus events.   |  |                |
| Set up a Handshake account and take the Pathway U career assessment.              |  |                |
| Attend the Student Involvement & Volunteer Fair to explore student organizations. |  |                |
| Make advising appointment for spring: Sept-Oct.                                   |  |                |
| Work with your advisor to develop your Pathway in Stellic.                        |  |                |

|   |   |              |
|---|---|--------------|
|   | <b>Credits</b>  | <b>13-14</b> |
| <b>Spring</b>   |   |              |
| GEOL 1180   | INTRODUCTION TO HISTORICAL GEOLOGY                        | 4            |
| CHEM 1180<br>& CHEM 1184  | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I LABORATORY | 4            |
| MATH 1330   | TRIGONOMETRY  | 3            |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE      | 3            |
| Attend campus events such as major exploration week to get an idea of interests and career paths. |   |              |
| Schedule a resume review with UNO Career Services.  |   |              |
| Visit faculty office hours and ask about undergraduate research opportunities.                    |   |              |
| Make advising appointment for summer and fall: February – March.                                  |   |              |
|   | <b>Credits</b>  | <b>14</b>    |

### Summer

|           |                |          |
|-----------|----------------|----------|
| MATH 1950 | CALCULUS I     | 5        |
|           | <b>Credits</b> | <b>5</b> |

### Sophomore

#### Fall

|                          |   |   |
|--------------------------|---|---|
| GEOL 2750<br>& GEOL 2754 | MINERALOGY<br>and MINERALOGY LABORATORY | 4 |
| GEOL 2300                | GEOSCIENCE DATA ANALYSIS AND MODELING   | 3 |
| PHYS 2110                | GENERAL PHYSICS I - CALCULUS LEVEL      | 4 |
| World Language 1110      |   | 5 |

Attend the Career & Internship Fair to start networking with employers.

Look for volunteer, research, or part-time work to gain experience.

Join a student organization or club related to your field or interests.

Make advising appointment for spring: Sept. - Oct.

|  |                |           |
|--|----------------|-----------|
|  | <b>Credits</b> | <b>16</b> |
|--|----------------|-----------|

#### Spring

|                          |   |     |
|--------------------------|---|-----|
| GEOL 3300<br>& GEOL 3310 | STRUCTURAL GEOLOGY<br>and STRUCTURAL GEOLOGY FIELD METHODS  | 4   |
| CHEM 1190<br>& CHEM 1194 | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II LABORATORY | 3-5 |

or

|                     |              |   |
|---------------------|--------------|---|
| GEOL 4540           | GEOCHEMISTRY | 5 |
| World Language 1120 |              | 5 |
| Elective            |              | 1 |

Attend a career fair for informational and networking purposes.

Update your resume and LinkedIn profile with new experiences.

Investigate and apply for summer internships, research, or study abroad programs.

Make advising appointment for summer and fall: February – March.

|  |                |              |
|--|----------------|--------------|
|  | <b>Credits</b> | <b>13-15</b> |
|--|----------------|--------------|

### Junior

#### Fall

|                     |   |   |
|---------------------|---|---|
| PHYS 1154           | GENERAL PHYSICS LABORATORY I              | 1 |
| ENGL 1160           | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| GEOL 3400           | INTRODUCTION TO SEDIMENTARY GEOLOGY       | 3 |
| MATH 1960           | CALCULUS II                               | 4 |
| World Language 2110 |   | 3 |

Apply for a paid internship or research assistantship.

Attend a mock interview workshop or use online interview tools with Career Services.

Start researching and visiting graduate programs or professional schools.

Visit Career Center, continue updating resume.

Make advising appointment for spring: Sept-Oct.

|  |                |           |
|--|----------------|-----------|
|  | <b>Credits</b> | <b>14</b> |
|--|----------------|-----------|



**Spring**

|   |  |              |
|---|--|--------------|
| GEOL/GEOG 4640<br>or GEOL 4260<br>or GEOG 4260<br>or GEOL 4330<br>or GEOG 4330                      | CRITICAL ZONE SCIENCE (OR AN<br>APPROVED GEOLOGY ELECTIVE)<br>or PROCESS GEOMORPHOLOGY<br>or PROCESS GEOMORPHOLOGY<br>or SOIL GENESIS, MORPHOLOGY<br>AND CLASSIFICATION<br>or SOIL GENESIS, MORPHOLOGY<br>AND CLASSIFICATION | 4            |
| PHYS 2120<br>& PHYS 1164<br>or<br>GEOL/PHYS 4400  | GENERAL PHYSICS II-CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY II<br>GЕOPHYSICS   | 3-5          |
| World Language 2120   |  | 3            |
| General Education Course or Elective  |  | 3            |
| Request letters of recommendation from faculty for jobs or grad school.                             |  |              |
| Attend the All-Majors Career Fair with a plan to network.   |  |              |
| Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. |  |              |
| Make advising appointment for summer and fall: February – March.                                    |  |              |
| <b>Credits</b>  |  | <b>13-15</b> |

**Summer**

|                |                       |          |
|----------------|-----------------------|----------|
| GEOL 4620      | ADVANCED FIELD COURSE | 6        |
| <b>Credits</b> |                       | <b>6</b> |

**Senior****Fall**

|  |   |           |
|--|---|-----------|
| GEOL/GEOG 4330<br>or GEOL 4260<br>or GEOG 4260<br>or GEOL 4640<br>or GEOG 4640 | SOIL GENESIS, MORPHOLOGY AND<br>CLASSIFICATION (OR AN APPROVED<br>GEOLOGY ELECTIVE)<br>or PROCESS GEOMORPHOLOGY<br>or PROCESS GEOMORPHOLOGY<br>or CRITICAL ZONE SCIENCE<br>or CRITICAL ZONE SCIENCE | 4         |
| Approved GEOL elective   |   | 3         |
| General Education Course or Elective   |   | 3         |
| General Education Course or Elective   |   | 3         |
| Check in with Career Center for networking tips.                               |   |           |
| Finalize graduate school applications or job search strategy.                  |   |           |
| Attend a career fair and start applying for full-time jobs.                    |   |           |
| Prepare for interviews and salary negotiations with Career Services.           |   |           |
| Make advising appointment for spring: Sept. - Oct.                             |   |           |
| <b>Credits</b>   |   | <b>13</b> |

**Spring**

|  |   |                |
|--|---|----------------|
| GEOL 4800<br>or GEOL 4950  | INTERNSHIP IN ENVIRONMENTAL/<br>REGIONAL PLANNING/EARTH SCIENCE<br>or SENIOR THESIS | 3              |
| Approved GEOL Elective   |   | 3              |
| General Education Course or Elective   |   | 3              |
| General Education Course or Elective   |   | 3              |
| Complete your final advising check before graduation.  |   |                |
| Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |   |                |
| <b>Credits</b>   |   | <b>12</b>      |
| <b>Total Credits</b>   |   | <b>119-124</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Geology, Bachelor of Science

To obtain a B.S. with a major in Geology, a student must fulfill university, college, and departmental requirements.

### Geology, Bachelor of Science Career Geology Track Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Geology Major, Geology Career - 65-74 Hours Required**

**Required Coursework 28**

GEOL 1170 INTRODUCTION TO PHYSICAL GEOLOGY (\*\*)

GEOL 1180 INTRODUCTION TO HISTORICAL GEOLOGY (^)

GEOL 2300 GEOSCIENCE DATA ANALYSIS AND MODELING (^)

GEOL 2750 MINERALOGY and MINERALOGY LABORATORY (^)

GEOL 3300 STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS (^)

GEOL 3400 INTRODUCTION TO SEDIMENTARY GEOLOGY (^)

GEOL 4620 ADVANCED FIELD COURSE (^)

**Select one of the following 4**

GEOL/GEOG 4260 PROCESS GEOMORPHOLOGY (^)

GEOL/GEOG 4640 CRITICAL ZONE SCIENCE (^)

GEOL/GEOG 4330 SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)

**Select one of the following 3**

GEOL 4800 INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE (\*\* ^)

GEOL 4950 SENIOR THESIS (^)

**Additional Geology or Geography courses in consultation with advisor 12**

**Required Chemistry Lecture and Lab: 4**

CHEM 1180 GENERAL CHEMISTRY I and CHEM 1184 and GENERAL CHEMISTRY I LABORATORY (\*\* ^)

**Additionally, select one of the following Chemistry options: 3-4**

CHEM 1190 GENERAL CHEMISTRY II and CHEM 1194 and GENERAL CHEMISTRY II LABORATORY (^)

OR

GEOL/CHEM 4540 GEOCHEMISTRY (^)

**Select one of the following Mathematics options 3-9**

MATH 1950 CALCULUS I (^)

MATH 1960 CALCULUS II

OR

MATH 1930 CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)

**Required Physics Lecture and Lab 5**

PHYS 2110 & PHYS 1154 GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (\*\* ^)

**Additionally, select one of the following Physics options: 3-5**

PHYS 2120 & PHYS 1164 GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II (^)

OR

GEOL/PHYS 4400 GEOPHYSICS (^)

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Requirement 0-15**

See advisor.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Geology, Bachelor of Science General Geology Track Requirements

**Code Title Credits**

**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-"required

**Fundamental Skills 15**

**Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### **MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **Geology Major, General Geology - 63-65 Hours Required**

#### **Required Coursework 28**

GEOL 1170 INTRODUCTION TO PHYSICAL GEOLOGY (\*\*)

GEOL 1180 INTRODUCTION TO HISTORICAL GEOLOGY (^)

GEOL 2300 GEOSCIENCE DATA ANALYSIS AND MODELING (^)

GEOL 2750 MINERALOGY  
& GEOL 2754 and MINERALOGY LABORATORY (^)

GEOL 3300 STRUCTURAL GEOLOGY  
& GEOL 3310 and STRUCTURAL GEOLOGY FIELD METHODS (^)

GEOL 3400 INTRODUCTION TO SEDIMENTARY GEOLOGY (^)

GEOL 4620 ADVANCED FIELD COURSE (^)

#### **Select one of the following 4**

GEOL/GEOL 4260 PROCESS GEOMORPHOLOGY (^)

GEOL/GEOL 4640 CRITICAL ZONE SCIENCE (^)

GEOL/GEOL 4330 SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)

#### **Select one of the following 3**

GEOL 4800 INTERNSHIP IN ENVIRONMENTAL/  
REGIONAL PLANNING/EARTH SCIENCE (^)

GEOL 4950 SENIOR THESIS (^)

#### **Additional Geology or Geography courses in consultation with advisor 12**

#### **An approved Statistics course 3**

#### **Other required coursework 10**

CHEM 1140 FUNDAMENTALS OF COLLEGE  
& CHEM 1144 CHEMISTRY  
and FUNDAMENTALS OF COLLEGE  
CHEMISTRY LABORATORY (\*\* ^)

PHYS 1110 PHYSICS FOR LIFE SCIENCE I  
& PHYS 1154 and GENERAL PHYSICS LABORATORY I  
(\*\* ^)

#### **Select one of the following options 3-5**

PHYS 1120 PHYSICS FOR LIFE SCIENCE II  
& PHYS 1164 and GENERAL PHYSICS LABORATORY II

#### **OR**

GEOL 4400 GEOPHYSICS (^)

#### **College Breadth (choose one option) - 15-30+ Hours Required 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

#### **Option 2: Additional General Education Requirements - 18+ hours**

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### **Bachelor of Science Cognate Requirement 0-15**

See advisor

#### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

## **Geology, Bachelor of Science Geology Career Track Four Year Plan**

### **Freshman**

| <b>Fall</b>   |  | <b>Credits</b> |
|---|--|----------------|
| ENGL 1150   | ENGLISH COMPOSITION I                              | 3              |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY                   | 4              |
| MATH 1300<br>or MATH 1320   | COLLEGE ALGEBRA WITH SUPPORT<br>or COLLEGE ALGEBRA | 3-4            |
| General Education Course or Elective  |  | 3              |
| Attend Durango Days; other campus events.   |  |                |
| Set up a Handshake account and take the Pathway U career assessment.              |  |                |
| Attend the Student Involvement & Volunteer Fair to explore student organizations. |  |                |
| Make advising appointment for spring: Sept-Oct.                                   |  |                |

**Credits 13-14**

### **Spring**

|                          |  |   |
|--------------------------|--|---|
| GEOL 1180                | INTRODUCTION TO HISTORICAL GEOLOGY                           | 4 |
| CHEM 1180<br>& CHEM 1184 | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY | 4 |
| MATH 1330                | TRIGONOMETRY   | 3 |
| CMST 1110                | PUBLIC SPEAKING FUNDS  | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths.

Schedule a resume review with UNO Career Services.

Visit faculty office hours and ask about undergraduate research opportunities.

Make advising appointment for summer and fall: February – March.

**Credits 14**

### **Summer**

|           |            |   |
|-----------|------------|---|
| MATH 1950 | CALCULUS I | 5 |
|-----------|------------|---|

**Credits 5**

### **Sophomore**

| <b>Fall</b>              |   |   |
|--------------------------|---|---|
| GEOL 2750<br>& GEOL 2754 | MINERALOGY<br>and MINERALOGY LABORATORY | 4 |

|   |   |   |
|---|---|---|
| GEOL 2300   | GEOSCIENCE DATA ANALYSIS AND MODELING                               | 3 |
| PHYS 2110 & PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I | 5 |
| General Education Course or Elective                                    |   | 3 |
| Attend the Career & Internship Fair to start networking with employers. |   |   |
| Look for volunteer, research, or part-time work to gain experience.     |   |   |
| Join a student organization or club related to your field or interests. |   |   |
| Make advising appointment for spring: Sept. - Oct.                      |   |   |

**Credits 15**

### Spring

|   |   |     |
|---|---|-----|
| GEOL 3300 & GEOL 3310   | STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS | 4   |
| CHEM 1190 & CHEM 1194 or GEOL 4540  | GENERAL CHEMISTRY II or GEOCHEMISTRY                    | 3-4 |
| Approved GEOL Elective  |   | 3   |
| General Education Course or Elective  |   | 3   |
| Attend a career fair for informational and networking purposes.                   |   |     |
| Update your resume and LinkedIn profile with new experiences.                     |   |     |
| Investigate and apply for summer internships, research, or study abroad programs. |   |     |
| Make advising appointment for summer and fall: February - March.                  |   |     |

**Credits 13-14**

### Junior

#### Fall

|  |   |   |
|--|---|---|
| GEOL 3400  | INTRODUCTION TO SEDIMENTARY GEOLOGY       | 3 |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| MATH 1960  | CALCULUS II                               | 4 |
| Approved GEOL Elective   |   | 1 |
| General Education Course or Elective   |   | 3 |
| Apply for a paid internship or research assistantship.                               |   |   |
| Attend a mock interview workshop or use online interview tools with Career Services. |   |   |
| Start researching and visiting graduate programs or professional schools.            |   |   |
| Visit Career Center, continue updating resume.                                       |   |   |
| Make advising appointment for spring: Sept-Oct.                                      |   |   |

**Credits 14**

### Spring

|  |  |     |
|--|--|-----|
| PHYS 2120 & PHYS 1164 or GEOL 4400 or PHYS 4400                            | GENERAL PHYSICS II-CALCULUS LEVEL or GEOPHYSICS or GEOPHYSICS  | 3-5 |
| GEOL 4640 or GEOG 4640 or GEOL 4260 or GEOG 4260 or GEOL 4330 or GEOG 4330 | CRITICAL ZONE SCIENCE or CRITICAL ZONE SCIENCE or PROCESS GEOMORPHOLOGY or PROCESS GEOMORPHOLOGY or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION | 4   |

|   |   |
|---|---|
| General Education Course or Elective  | 3 |
| General Education Course or Elective  | 3 |
| Request letters of recommendation from faculty for jobs or grad school.                             |   |
| Attend the All-Majors Career Fair with a plan to network.   |   |
| Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. |   |
| Make advising appointment for summer and fall: February - March.                                    |   |

**Credits 13-15**

### Summer

|           |                       |   |
|-----------|-----------------------|---|
| GEOL 4620 | ADVANCED FIELD COURSE | 6 |
|-----------|-----------------------|---|

**Credits 6**

### Senior

#### Fall

|  |  |   |
|--|--|---|
| GEOL 4260 or GEOG 4260 or GEOL 4640 or GEOG 4640 or GEOL 4330 or GEOG 4330 | PROCESS GEOMORPHOLOGY or PROCESS GEOMORPHOLOGY or CRITICAL ZONE SCIENCE or CRITICAL ZONE SCIENCE or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION | 4 |
|--|--|---|

|               |   |
|---------------|---|
| GEOL elective | 3 |
|---------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|  |  |
|--|--|
| Check in with Career Center for networking tips. |  |
|--|--|

|   |  |
|---|--|
| Finalize graduate school applications or job search strategy. |  |
|---|--|

|   |  |
|---|--|
| Attend a career fair and start applying for full-time jobs. |  |
|---|--|

|  |  |
|--|--|
| Prepare for interviews and salary negotiations with Career Services. |  |
|--|--|

|  |  |
|--|--|
| Make advising appointment for spring: Sept. - Oct. |  |
|--|--|

**Credits 16**

### Spring

|                        |   |   |
|------------------------|---|---|
| GEOL 4800 or GEOL 4950 | INTERNSHIP IN ENVIRONMENTAL/ REGIONAL PLANNING/EARTH SCIENCE or SENIOR THESIS | 3 |
|------------------------|---|---|

|                        |   |
|------------------------|---|
| Approved GEOL Elective | 3 |
|------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|          |     |
|----------|-----|
| Elective | 2-3 |
|----------|-----|

|   |  |
|---|--|
| Complete your final advising check before graduation. |  |
|---|--|

|  |  |
|--|--|
| Polish your resume, cover letters, and LinkedIn profile. |  |
|--|--|

|   |  |
|---|--|
| Stay connected by joining alumni networks and professional organizations. |  |
|---|--|

|                                   |  |
|-----------------------------------|--|
| Apply for graduation via MavLink. |  |
|-----------------------------------|--|

**Credits 11-12**

**Total Credits 120-125**

## Geology, Bachelor of Science Geology General Track Four Year Plan

### Freshman

#### Fall

|                        |   |     |
|------------------------|---|-----|
| GEOL 1170              | INTRODUCTION TO PHYSICAL GEOLOGY                | 4   |
| ENGL 1150              | ENGLISH COMPOSITION I                           | 3   |
| MATH 1300 or MATH 1320 | COLLEGE ALGEBRA WITH SUPPORT or COLLEGE ALGEBRA | 3-4 |

**Credits**

|  |   |
|--|---|
| General Education Course or Elective   | 3 |
| Attend Durango Days; other campus events.  |   |
| Set up a Handshake account and take the Pathway U career assessment.   |   |
| Attend the Student Involvement & Volunteer Fair to explore student organizations.  |   |
| Make advising appointment for spring: Sept-Oct.  |   |
| Complete your final advising check before graduation.  |   |
| Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |   |

|   | Credits   | 13-14 |
|---|---|-------|
| <b>Spring</b>   |   |       |
| GEOL 1180   | INTRODUCTION TO HISTORICAL GEOLOGY  | 4     |
| CHEM 1140 & CHEM 1144   | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY        | 5     |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   | 3     |
| GEOL 2500   | SPECIAL TOPICS IN GEOGRAPHY-GEOLOGY (may be taken multiple times under different topics.) | 1     |
| General Education Course or Elective  |   | 3     |
| Attend campus events such as major exploration week to get an idea of interests and career paths. |   |       |
| Schedule a resume review with UNO Career Services.  |   |       |
| Visit faculty office hours and ask about undergraduate research opportunities.                    |   |       |
| Make advising appointment for summer and fall: February – March.                                  |   |       |

|   | Credits                               | 16 |
|---|---------------------------------------|----|
| <b>Sophomore</b>  |                                       |    |
| <b>Fall</b>   |                                       |    |
| GEOL 2750 & GEOL 2754   | MINERALOGY and MINERALOGY LABORATORY  | 4  |
| GEOL 2300   | GEOSCIENCE DATA ANALYSIS AND MODELING | 3  |
| CMST 1110   | PUBLIC SPEAKING FUNDS                 | 3  |
| General Education Course or Elective                                    |                                       | 3  |
| Attend the Career & Internship Fair to start networking with employers. |                                       |    |
| Look for volunteer, research, or part-time work to gain experience.     |                                       |    |
| Join a student organization or club related to your field or interests. |                                       |    |
| Make advising appointment for spring: Sept. - Oct.                      |                                       |    |

|   | Credits   | 13 |
|---|---|----|
| <b>Spring</b>   |   |    |
| GEOL 3300 & GEOL 3310   | STRUCTURAL GEOLOGY and STRUCTURAL GEOLOGY FIELD METHODS | 4  |
| Approved GEOL Elective  |   | 1  |
| An approved statistics course                                   |   | 3  |
| General Education Course or Elective                            |   | 3  |
| General Education Course or Elective                            |   | 3  |
| Attend a career fair for informational and networking purposes. |   |    |

|   |
|---|
| Update your resume and LinkedIn profile with new experiences.                     |
| Investigate and apply for summer internships, research, or study abroad programs. |
| Make advising appointment for summer and fall: February – March.                  |

**Credits 14**

|  |   |   |
|--|---|---|
| <b>Junior</b>  |   |   |
| <b>Fall</b>  |   |   |
| GEOL 3400  | INTRODUCTION TO SEDIMENTARY GEOLOGY   | 3 |
| GEOL 4260 or GEOG 4260 or GEOL 4640 or GEOG 4640 or GEOL 4330 or GEOG 4330 | PROCESS GEOMORPHOLOGY (or an approved GEOL elective) or PROCESS GEOMORPHOLOGY or CRITICAL ZONE SCIENCE or CRITICAL ZONE SCIENCE or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION | 4 |

|  |   |
|--|---|
| General Education Course or Elective   | 3 |
| General Education Course or Elective   | 3 |
| Elective   | 1 |
| Apply for a paid internship or research assistantship.                               |   |
| Attend a mock interview workshop or use online interview tools with Career Services. |   |
| Start researching and visiting graduate programs or professional schools.            |   |
| Visit Career Center, continue updating resume.                                       |   |
| Make advising appointment for spring: Sept-Oct.                                      |   |

**Credits 14**

|  |   |   |
|--|---|---|
| <b>Spring</b>  |   |   |
| GEOL 4640 or GEOG 4640 or GEOG 4260 or GEOL 4260 or GEOG 4330 or GEOL 4330 | CRITICAL ZONE SCIENCE (or an approved GEOL elective) or CRITICAL ZONE SCIENCE or PROCESS GEOMORPHOLOGY or PROCESS GEOMORPHOLOGY or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION or SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION | 4 |

|                                      |   |   |
|--------------------------------------|---|---|
| PHYS 1110 & PHYS 1154                | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I | 5 |
| General Education Course or Elective |   | 3 |
| General Education Course or Elective |   | 3 |

|   |  |
|---|--|
| Make advising appointment for spring: Sept-Oct.   |  |
| Attend the All-Majors Career Fair with a plan to network.   |  |
| Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. |  |
| Make advising appointment for summer and fall: February – March.                                    |  |

**Credits 15**

|               |                       |   |
|---------------|-----------------------|---|
| <b>Summer</b> |                       |   |
| GEOL 4620     | ADVANCED FIELD COURSE | 6 |

**Credits 6**

|                                    |   |     |
|------------------------------------|---|-----|
| <b>Senior</b>                      |   |     |
| <b>Fall</b>                        |   |     |
| PHYS 1120 & PHYS 1164 or GEOL 4400 | PHYSICS FOR LIFE SCIENCE II or GEOPHYSICS | 3-5 |
| Approved GEOL elective             |   | 3   |

|  |   |
|--|---|
| Approved GEOL Elective   | 1 |
| General Education Course or Elective                                 | 3 |
| General Education Course or Elective                                 | 3 |
| Check in with Career Center for networking tips.                     |   |
| Finalize graduate school applications or job search strategy.        |   |
| Attend a career fair and start applying for full-time jobs.          |   |
| Prepare for interviews and salary negotiations with Career Services. |   |
| Make advising appointment for spring: Sept. - Oct.                   |   |

**Credits** **13-15**

### Spring

|   |   |   |
|---|---|---|
| GEOL 4800<br>or GEOL 4950   | INTERNSHIP IN ENVIRONMENTAL/<br>REGIONAL PLANNING/EARTH SCIENCE<br>or SENIOR THESIS | 3 |
| General Education Course or Elective                                      |   | 3 |
| General Education Course or Elective                                      |   | 3 |
| General Education Course or Elective                                      |   | 3 |
| Elective  |   | 3 |
| Complete your final advising check before graduation.                     |   |   |
| Polish your resume, cover letters, and LinkedIn profile.                  |   |   |
| Stay connected by joining alumni networks and professional organizations. |   |   |
| Apply for graduation via MavLink.   |   |   |

**Credits** **15**

**Total Credits** **119-122**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Geology Minor

### Geology Minor Requirements

| Code   | Title                            | Credits   |
|--|----------------------------------|-----------|
| All of the following:  |                                  | 8         |
| GEOL 1170  | INTRODUCTION TO PHYSICAL GEOLOGY |           |
| GEOL 2750  | MINERALOGY (^)                   |           |
| GEOL 2754  | MINERALOGY LABORATORY (^)        |           |
| <b>An additional 9 hours at or above the 3000-level courses from selected optional courses under specific faculty advisement is also required.</b> |                                  | <b>9</b>  |
| <b>Total Credits</b>   |                                  | <b>17</b> |

## History

The mission of the Department of History is to develop in our students a thorough appreciation of the historical events, personalities, and patterns that have coalesced through the centuries to create the world we live in today. In addition to the all-important sense of perspective and context that an understanding of the past provides, students of history also gain important tangible skills that equip them to succeed in a wide array of careers. Specifically, our majors learn to find and critically analyze source materials, to interpret evidence in subtle and nuanced ways, and to communicate their findings effectively, both orally and in writing. Study after study reveals that these are the skills that employers in countless fields value most in their workforce.

## Other Information

All coursework taken for a History major or minor must be completed with a grade of "C-" or better.

## Student Groups

Eligible students are encouraged to join the National History Honorary Society, Phi Alpha Theta. Our local chapter sponsors a variety of enrichment activities throughout the year.

## Option for Degree Completion--Fast Track Programs

### BA or BS History to MA History Fast Track Program

The Department of History has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame.

With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

## Program Specifics:

- This program is available for undergraduate students pursuing a BA/BS in History desiring to pursue an MA in History.
- Students must have completed no less than 95 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.



- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
    - If students obtain a minimum GPA of 3.8 in the graduate courses taken within the Fast Track Program, this will be considered a plus factor for admission to the master's degree program.
    - The admit term must be after the completion term of the undergraduate degree.

## Additional Fast Track Option

### **BA or BS History or BA/BS Political Science to MA History and Government Fast Track Program**

The Departments of History and Political Science have developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

## Program Specifics:

- This program is available for undergraduate students pursuing BA/BS in History or BA/BS in Political Science desiring to pursue a MA in History and Government.
- Students must have completed no less than 95 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
    - If students obtain a minimum GPA of 3.8 in the graduate courses taken within the Fast Track Program, this will be considered a plus factor for admission to the master's degree program.
    - The admit term must be after the completion term of the undergraduate degree.

## Contact

287 Arts and Sciences Hall  
402.554.2593

**Website (<http://www.unomaha.edu/college-of-arts-and-sciences/history/>)**

## Degrees Offered

- History, Bachelor of Arts (p. 167)
- History, Bachelor of Science (p. 169)

## Bachelor of Arts and Bachelor of Science in History

For the Bachelor of Arts or the Bachelor of Science in history, a minimum of 36 hours in history are required. Specific requirements are below.

**B.A. degree seeking students** must take world language through the intermediate level.

**B.S. degree seeking students**, in lieu of world language, must complete a 15 hour "cognate field." The cognate should consist of 12 hours at the 3000/4000 level in one or more related disciplines selected to complement the student's interests in history. Additionally, one 3-hour course in logic or statistics or one 3-hour writing course from another department must also be taken. The specific composition of a student's cognate field will be determined in consultation with the student's faculty advisor.

## Bachelor of Multidisciplinary Studies

Students who wish to complete a Bachelor of Multidisciplinary Studies degree with a concentration in history should consult with an advisor in the Division of Continuing Studies. This degree requires 30 credit hours in history, of which nine hours must be at the 3000/4000 level. HIST 2980 and HIST 4990 are recommended for every student who plans to pursue a graduate degree in history. Students interested in this degree program must meet with an advisor in the Division of Continuing Studies. The concentration in history (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/division-of-continuing-studies/academics/areas-of-study/history.php>) consists of a minimum of 30 credit hours.

## Minors Offered

- History Minor (p. 171)

If you seek to understand how and why the world came to be the way that it is today, then the study of History is your starting point, and the Department of History should become your academic home.

At the most fundamental level, History majors ask "How did we get to this point?" And in seeking the answers to that question, they gain deep and rich insights into both the great diversity and the binding commonalities of the human experience. Ultimately, then, the study of History helps us to define and understand the most essential elements of our own identity – who we are, where we come from, and how we are connected. Who could ask for a more important, dramatic, or rewarding academic endeavor?

- Analyst, Project Manager, or other professional position in a wide variety of industries such as insurance, banking, and marketing
- Attorney or paralegal professional
- Federal, state, and local governments
- Politics
- Teaching
- Federal Bureau of Investigation
- Archivists
- Museum work

- Grant Writing
- Journalism

## History, Bachelor of Arts

To obtain a B.A. with a major in History, a student must fulfill university, college, and departmental requirements.

## History, Bachelor of Arts Requirements

| Code  | Title   | Credits       |
|---|---|---------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |               |
| Minimum of "C-" required  |   |               |
| <b>Fundamental Skills</b>   |   | <b>15</b>     |
| <b>Writing – 6 hrs.</b>   |   |               |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |               |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |               |
| <b>Oral Communication – 3 hrs.</b>  |   |               |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |               |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |               |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |               |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |               |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |               |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |               |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |               |
| <b>Data Literacy – 3 hrs.</b>   |   |               |
| Select one from the following:  |   |               |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |               |
| STAT 1530   | ELEMENTARY STATISTICS                                   |               |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |               |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>     |
| Social Science – 3 hrs.   |   |               |
| Humanities – 3 hrs.   |   |               |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |               |
| Arts – 3 hrs.   |   |               |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>      |
| Cultural Knowledge – 3 hrs.   |   |               |
| Civic Knowledge and Engagement – 3 hrs.   |   |               |
| <b>MAJOR REQUIREMENTS</b>   |   |               |
| **Course will satisfy UNO's General Education requirement   |   |               |
| ^Course requires pre-requisite(s)   |   |               |
| <b>History Major - 36 Hours Required</b>  |   |               |
| <b>Required Coursework</b>  |   | <b>15</b>     |
| HIST 1000   | WORLD HISTORY TO 1500 (**)                              |               |
| HIST 1010   | WORLD HISTORY SINCE 1500 (**)                           |               |
| HIST 1110   | AMERICAN HISTORY TO 1865 (**)                           |               |
| or HIST 1120  | AMERICAN HISTORY SINCE 1865                             |               |
| HIST 2980   | HISTORICAL METHODOLOGY                                  |               |
| HIST 4990   | SENIOR SEMINAR  |               |
| <b>Select one 3-credit (HIST) course at the 1000-2000 Level</b>   |   | <b>3</b>      |
| <b>Select six 3-credit (HIST) courses at the 3000-4000 Level</b>  |   | <b>18</b>     |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement - 16 Hours Required**

FREN, GERM, Or SPAN, 1110, 1120, 2110 and 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## History, Bachelor of Arts Four Year Plan

### Freshman

| Fall  |                       | Credits |
|---|-----------------------|---------|
| ENGL 1150   | ENGLISH COMPOSITION I | 3       |
| HIST 1000   | WORLD HISTORY TO 1500 | 3       |
| World Language 1110   |                       | 5       |
| General Education Course or Elective  |                       | 3       |
| Attend Durango Days; other campus events.   |                       |         |
| Set up a Handshake account and take the Pathway U career assessment.              |                       |         |
| Attend the Student Involvement & Volunteer Fair to explore student organizations. |                       |         |
| Make advising appointment for spring: Sept-Oct.                                   |                       |         |

**Credits** **14**

### Spring

|   |   |   |
|---|---|---|
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| HIST 1010   | WORLD HISTORY SINCE 1500                  | 3 |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     | 3 |
| or CMST 2120  | or ARGUMENTATION AND DEBATE               |   |
| World Language 1120   |   | 5 |
| Attend campus events such as major exploration week to get an idea of interests and career paths. |   |   |
| Schedule a resume review with UNO Career Services.  |   |   |
| Visit faculty office hours and ask about undergraduate research opportunities.                    |   |   |
| Make advising appointment for summer and fall: February – March.                                  |   |   |

**Credits** **14**

### Sophomore

| Fall                                |                                |   |
|-------------------------------------|--------------------------------|---|
| HIST 2980                           | HISTORICAL METHODOLOGY (*)     | 3 |
| HIST 1110                           | AMERICAN HISTORY TO 1865       | 3 |
| or HIST 1120                        | or AMERICAN HISTORY SINCE 1865 |   |
| World Language 2110                 |                                | 3 |
| General Elective Course or Elective |                                | 3 |
| Elective                            |                                | 3 |

|   |              |
|---|--------------|
| Attend the Career & Internship Fair to start networking with employers.                             |              |
| Look for volunteer, research, or part-time work to gain experience.                                 |              |
| Join a student organization or club related to your field or interests.                             |              |
| Make advising appointment for spring: Sept. - Oct.  |              |
| <b>Credits</b>  | <b>15</b>    |
| <b>Spring</b>   |              |
| HIST Lower Level Elective   | 3            |
| World Language 2120   | 3            |
| MATH 1120   | 3-4          |
| or MATH 1130  |              |
| or MATH 1140  |              |
| or MATH 1300  |              |
| INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING   |              |
| or QUANTITATIVE LITERACY  |              |
| or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS  |              |
| or COLLEGE ALGEBRA WITH SUPPORT   |              |
| General Education Course or Elective  | 3            |
| Elective  | 3            |
| Attend a career fair for informational and networking purposes.                                     |              |
| Update your resume and LinkedIn profile with new experiences.                                       |              |
| Investigate and apply for summer internships, research, or study abroad programs.                   |              |
| Make advising appointment for summer and fall: February – March.                                    |              |
| <b>Credits</b>  | <b>15-16</b> |
| <b>Junior</b>   |              |
| <b>Fall</b>   |              |
| HIST 3000-4000 Level  | 3            |
| General Education Course or Elective  | 3            |
| General Education Course or Elective  | 3            |
| General Education Course or Elective  | 3            |
| Elective  | 3            |
| Elective  | 1            |
| Apply for a paid internship or research assistantship.  |              |
| Attend a mock interview workshop or use online interview tools with Career Services.                |              |
| Start researching and visiting graduate programs or professional schools.                           |              |
| Visit Career Center, continue updating resume.  |              |
| Make advising appointment for spring: Sept-Oct.   |              |
| <b>Credits</b>  | <b>16</b>    |
| <b>Spring</b>   |              |
| HIST 3000-4000 Level  | 3            |
| HIST 3000-4000 Level  | 3            |
| General Education Course or Elective  | 3            |
| General Education Course or Elective  | 3            |
| Elective  | 3            |
| Elective  | 1            |
| Request letters of recommendation from faculty for jobs or grad school.                             |              |
| Attend the All-Majors Career Fair with a plan to network.   |              |
| Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. |              |

|   |                |
|---|----------------|
| Make advising appointment for summer and fall: February – March.          |                |
| <b>Credits</b>  | <b>16</b>      |
| <b>Senior</b>   |                |
| <b>Fall</b>   |                |
| HIST 3000-4000 Level  | 3              |
| HIST 3000-4000 Level  | 3              |
| General Education Course or Elective                                      | 3              |
| General Education Course or Elective                                      | 3              |
| Elective  | 3              |
| Check in with Career Center for networking tips.                          |                |
| Finalize graduate school applications or job search strategy.             |                |
| Attend a career fair and start applying for full-time jobs.               |                |
| Prepare for interviews and salary negotiations with Career Services.      |                |
| Make advising appointment for spring: Sept. - Oct.                        |                |
| <b>Credits</b>  | <b>15</b>      |
| <b>Spring</b>   |                |
| HIST 4990   | 3              |
| SENIOR SEMINAR  |                |
| HIST 3000-4000 Level  | 3              |
| Elective  | 3              |
| Elective  | 3              |
| Elective  | 3              |
| Complete your final advising check before graduation.                     |                |
| Polish your resume, cover letters, and LinkedIn profile.                  |                |
| Stay connected by joining alumni networks and professional organizations. |                |
| Apply for graduation via MavLink.   |                |
| <b>Credits</b>  | <b>15</b>      |
| <b>Total Credits</b>  | <b>120-121</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>  
 \*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

# History, Bachelor of Science

To obtain a B.S. with a major in History, a student must fulfill university, college, and departmental requirements.

## History, Bachelor of Science Requirements

| Code  | Title   | Credits       |
|---|---|---------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |               |
| Minimum of "C-" required  |   |               |
| <b>Fundamental Skills</b>   |   | <b>15</b>     |
| <b>Writing – 6 hrs.</b>   |   |               |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |               |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |               |
| <b>Oral Communication – 3 hrs.</b>  |   |               |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |               |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |               |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |               |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |               |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |               |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |               |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |               |
| <b>Data Literacy – 3 hrs.</b>   |   |               |
| Select one from the following:  |   |               |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |               |
| STAT 1530   | ELEMENTARY STATISTICS                                   |               |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |               |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>     |
| Social Science – 3 hrs.   |   |               |
| Humanities – 3 hrs.   |   |               |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |               |
| Arts – 3 hrs.   |   |               |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>      |
| Cultural Knowledge – 3 hrs.   |   |               |
| Civic Knowledge and Engagement – 3 hrs.   |   |               |
| <b>MAJOR REQUIREMENTS</b>   |   |               |
| **Course will satisfy UNO's General Education requirement   |   |               |
| ^Course requires pre-requisite(s)   |   |               |
| <b>History Major - 36 Hours Required</b>  |   |               |
| <b>Required Coursework</b>  |   | <b>15</b>     |
| HIST 1000   | WORLD HISTORY TO 1500 (**)                              |               |
| HIST 1010   | WORLD HISTORY SINCE 1500 (**)                           |               |
| HIST 1110   | AMERICAN HISTORY TO 1865 (**)                           |               |
| or HIST 1120  | AMERICAN HISTORY SINCE 1865                             |               |
| HIST 2980   | HISTORICAL METHODOLOGY                                  |               |
| HIST 4990   | SENIOR SEMINAR  |               |
| <b>Select one 3-credit (HIST) course at the 1000-2000 Level</b>   |   | <b>3</b>      |
| <b>Select six 3-credit (HIST) courses at the 3000-4000 Level</b>  |   | <b>18</b>     |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours   |   |               |

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Requirement 15**

For the B.S. degree, students are required to complete at least 15 hours of related cognate coursework that must be approved by a History Department Academic Advisor. Students will choose one course in advanced writing or statistics, in consultation with their advisor. Twelve hours must be courses at the 3000/4000 level. Students may choose any UNO Minor to satisfy their upper-level cognate requirement, however this cannot double-count with Option 1 minor for the College of Arts & Sciences Degree Requirements.

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## History, Bachelor of Science Four Year Plan

### Freshman

| Fall   |                             | Credits   |
|--|-----------------------------|-----------|
| ENGL 1150  | ENGLISH COMPOSITION I       | 3         |
| HIST 1000  | WORLD HISTORY TO 1500       | 3         |
| CMST 1110  | PUBLIC SPEAKING FUNDS       | 3         |
| or CMST 2120   | or ARGUMENTATION AND DEBATE |           |
| General Education Course or Elective   |                             | 3         |
| Elective   |                             | 3         |
| Attend Durango Days; other campus events.  |                             |           |
| Set up a Handshake account and take the Pathway U career assessment.   |                             |           |
| Attend the Student Involvement & Volunteer Fair to explore student organizations.  |                             |           |
| Make advising appointment for spring: Sept-Oct.  |                             |           |
| Complete your final advising check before graduation.  |                             |           |
| Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |                             |           |
| <b>Credits</b>   |                             | <b>15</b> |

### Spring

|                                      |   |     |
|--------------------------------------|---|-----|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY               | 3   |
| HIST 1010                            | WORLD HISTORY SINCE 1500                                | 3   |
| MATH 1120                            | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING | 3-4 |
| or MATH 1130                         | or QUANTITATIVE LITERACY                                |     |
| or MATH 1140                         | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS  |     |
| or MATH 1300                         | or COLLEGE ALGEBRA WITH SUPPORT                         |     |
| General Education Course or Elective |   | 3   |
| Elective                             |   | 3   |

Attend campus events such as major exploration week to get an idea of interests and career paths.

Schedule a resume review with UNO Career Services.

Visit faculty office hours and ask about undergraduate research opportunities.

Make advising appointment for summer and fall: February – March.

**Credits 15-16**

### Sophomore

#### Fall

HIST 2980 HISTORICAL METHODOLOGY 3

HIST 1110 AMERICAN HISTORY TO 1865 3  
or HIST 1120 or AMERICAN HISTORY SINCE 1865

General Education Course or Elective 3

General Education Course or Elective 3

Elective 3

Attend the Career & Internship Fair to start networking with employers.

Look for volunteer, research, or part-time work to gain experience.

Join a student organization or club related to your field or interests.

Make advising appointment for spring: Sept. - Oct.

**Credits 15**

#### Spring

HIST Lower Level Elective 3

General Education Course or Elective 3

General Education Course or Elective 3

General Education Course or Elective 3

B.S. Cognate Course (advisor-approved advanced writing or statistics or other course) 3

Attend a career fair for informational and networking purposes.

Update your resume and LinkedIn profile with new experiences.

Investigate and apply for summer internships, research, or study abroad programs.

Make advising appointment for summer and fall: February – March.

**Credits 15**

### Junior

#### Fall

HIST 3000-4000 Level 3

General Education Course or Elective 3-4

General Education Course or Elective 3

Upper Level Cognate Course 3

Elective 3

Apply for a paid internship or research assistantship.

Attend a mock interview workshop or use online interview tools with Career Services.

Start researching and visiting graduate programs or professional schools.

Visit Career Center, continue updating resume.

Make advising appointment for spring: Sept-Oct.

**Credits 15-16**

#### Spring

HIST 3000-4000 Level 3

HIST 3000-4000 Level 3

General Education Course or Elective 3

Upper Level Cognate Course 3

Elective 3

Request letters of recommendation from faculty for jobs or grad school.

Attend the All-Majors Career Fair with a plan to network.

Meet with your advisor or submit for a graduation check-in to review remaining degree requirements.

Make advising appointment for summer and fall: February – March.

**Credits 15**

### Senior

#### Fall

HIST 3000-4000 Level 3

HIST 3000-4000 Level 3

Upper Level Cognate Course 3

General Education Course or Elective 3

Elective 3

Check in with Career Center for networking tips.

Finalize graduate school applications or job search strategy.

Attend a career fair and start applying for full-time jobs.

Prepare for interviews and salary negotiations with Career Services.

Make advising appointment for spring: Sept. - Oct.

**Credits 15**

#### Spring

HIST 4990 SENIOR SEMINAR 3

HIST 3000-4000 Level 3

Upper Level Cognate Course 3

Elective 3

Elective 3

Complete your final advising check before graduation.

Polish your resume, cover letters, and LinkedIn profile.

Stay connected by joining alumni networks and professional organizations.

Apply for graduation via MavLink.

**Credits 15**

**Total Credits 120-122**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## History Minor

### History Minor Requirements

Students may earn a minor in history by completing 15 hours in history, with at least 9 hours in 3000-4000 level courses.

## Holocaust and Genocide Studies Minor

### Description

The mission of the Holocaust and Genocide Studies (HGS) Faculty is to promote and facilitate the scholarly study of the Holocaust and other historical genocides throughout history. One of its chief mandates is to provide an interdisciplinary approach in which the topic of the HGS is covered in a variety of departments/programs and from a variety of perspectives. The HGS minor is intended to create a student who is more aware of the importance of genocide in both the past and present and to prepare them for potential careers in fields related to the HGS. The following are key objectives of the minor:

- Learn the history of genocide from a global and comparative perspective
- Learn the history of genocide in an interdisciplinary context
- Master core competencies in other disciplines and majors with the Holocaust and genocide as the subject matter
- Recognize the current relevance of the study of the Holocaust and genocide
- Gain a working knowledge of methods of prevention, intervention, and justice for instances of genocide throughout history
- Develop "moral muscles" that enable students to recognize and react to injustices occurring at home and abroad
- Prepare students for a variety of careers in both the public and private sector that focus on the recognition, prevention, intervention, amelioration, and prosecution of genocide and mass atrocity.

### Other Information

All coursework taken for the Holocaust and Genocide Studies minor must be completed with a grade of "C-" or better.

### Contact

Holocaust and Genocide Studies Director/Advisor, Mark Scherer, Ph.D., J.D.  
Professor of History  
287W Arts and Sciences Hall, 402.554.4823  
mscherer@unomaha.edu

## Holocaust and Genocide Studies Minor Requirements

Undergraduate students will be expected to complete at least **18 credit hours** of HGS courses with a grade of C- or higher in at least **three**

**departments**, including Anthropology, History, Philosophy, Political Science, Religious Studies and Sociology. A course in another department may be permissible with review and approval by the HGS director

### Required Courses

| Code   | Title   | Credits  |
|--|---|----------|
| ^Course requires pre-requisites(s)                             |   |          |
| <b>All of the following:</b>                                   |   | <b>9</b> |
| HIST 4720/<br>RELI 4160  | THE HOLOCAUST (^)                                 |          |
| HIST 4740  | COMPARATIVE GENOCIDE (^)                          |          |
| PSCI 4260  | INTERNATIONAL LAW (^)                             |          |
| <b>Additional Courses - Select 9 hours from the following:</b> |   | <b>9</b> |
| <b>Anthropology</b>  |   |          |
| ANTH 3220  | PEOPLES AND CULTURES OF NATIVE NORTH AMERICA (^)  |          |
| <b>History</b>   |   |          |
| HIST 2920/<br>BLST 2120  | HISTORY OF MODERN AFRICA                          |          |
| HIST 4170  | HISTORY OF THE AMERICAN WEST (^)                  |          |
| HIST 4400  | HISTORY OF NATIVE AMERICAN INDIGENOUS PEOPLES (^) |          |
| HIST 4720/<br>RELI 4160  | THE HOLOCAUST (^)                                 |          |
| <b>Philosophy</b>  |   |          |
| PHIL 1020  | CONTEMPORARY MORAL PROBLEMS                       |          |
| PHIL 2030  | INTRODUCTION TO ETHICS                            |          |
| PHIL 3210  | SOCIAL PHILOSOPHY (^)                             |          |
| <b>Political Science</b>                                       |   |          |
| PSCI 2210  | INTRODUCTION TO INTERNATIONAL RELATIONS           |          |
| PSCI 3220  | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING (^)   |          |
| PSCI 3920  | SPECIAL TOPICS IN POLITICAL SCIENCE               |          |
| PSCI 4110  | POLITICAL PSYCHOLOGY (^)                          |          |
| PSCI 4240  | INTERNATIONAL CONFLICT RESOLUTION (^)             |          |
| PSCI 4290  | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY (^)    |          |
| <b>Religion</b>  |   |          |
| RELI 3060  | RELIGIONS OF THE WEST                             |          |
| RELI 3500  | TOPICS IN RELIGIOUS STUDIES                       |          |
| RELI 4150  | JUDAISM IN THE MODERN AGE (^)                     |          |
| <b>Sociology</b>   |   |          |
| SOC 3900   | RACE AND ETHNIC RELATIONS IN THE U.S. (^)         |          |

<sup>1</sup> PSCI 3920 when taught as Gender and Global Politics

<sup>2</sup> RELI 3500 when topic pertains to HGS

## Human Rights Studies Minor

### Description

The interdisciplinary human rights studies minor provides students with a fuller understanding of the origins, theories, and contemporary realities of human rights through the exploration of multiple intellectual spaces of human rights discourse. Having an understanding of human rights will help students to address issues such as migration and refugees, ethnic cleansing and genocide, discrimination, terrorism, poverty, children's



rights, surveillance, torture, humanitarian intervention, armed conflict, and capital punishment.

Although the breadth of this program complements majors across the disciplinary spectrum, it is particularly valuable for those majoring in fields related to society, politics, and the law, such as sociology, political science, philosophy, religious studies, history, and anthropology. Not only is it relevant to those students seeking careers in the public, private, and non-profit sectors, it is well-suited for those who have an interest in human rights research and advocacy both locally and globally. The human rights studies minor is ideally suited for students who want to put their knowledge and skills to use through local internships and study abroad programs available to UNO students. It will also serve to enhance research skills and experiences for students who plan to pursue further education in graduate programs, as well as law school. The importance of human rights law has been elevated in an age of increasing armed intervention and movement of people across borders.

## Other Information

All coursework taken for the human rights studies minor must be completed with a grade of "C" or better.

## Contact

Rory J. Conces, PhD, Philosophy  
205C ASH  
rconces@unomaha.edu

## Requirements

Undergraduates seeking to minor in human rights studies must complete a total of 18 credit hours with a grade of C or higher. A minimum of 12 credit hours must be from courses at the 3000 and/or 4000 level.

| Code  | Title  | Credits |
|---|--|---------|
| ^Course requires pre-requisite(s)   |  |         |
| <b>Core Courses</b>   |  |         |
| Select at least 9 credits from the following:   |  | 9       |
| PHIL 3210   | SOCIAL PHILOSOPHY (^)  |         |
| PSCI 3240   | THE POLITICS AND PRACTICE OF HUMAN RIGHTS (^)                    |         |
| RELI 2020   | RELIGION AND HUMAN RIGHTS  |         |
| RELI 4220   | VIOLENT CONFLICTS, PEACEBUILDING, AND THE ETHICS OF INTERVENTION |         |
| RELI 4250   | WAR, RELIGION, AND HUMAN RIGHTS                                  |         |
| SOC 4740  | SOCIAL JUSTICE AND SOCIAL CHANGE (^)                             |         |
| Service Learning Component  |  |         |
| <b>Additional Courses</b>   |  |         |
| Select the remaining credit hours from the following list of courses (or other courses, including independent studies, approved by the Human Rights Committee) and in at least two areas: |  | 9       |
| <b>Gender and Sexuality</b>   |  |         |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                             |         |
| BLST/WGST 1950  | BLACK WOMEN IN AMERICA   |         |
| BLST 4260   | BLACK WOMEN WRITERS (^)  |         |
| CMST/WGST 3750  | GENDER AND COMMUNICATION (^)                                     |         |
| ENGL/WGST 4250  | WOMEN'S STUDIES IN LITERATURE (^)                                |         |
| PSCI/WGST 3130  | WOMEN AND POLITICS (^)   |         |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (^)                                |         |
| WGST/PSCI 3100  | LGBTQ+ POLITICS (^)  |         |
| WGST/PSCI 3230  | GENDER AND GLOBAL POLITICS (^)                                   |         |

### Race and Ethnicity

|                |  |
|----------------|--|
| BLST/ENGL 2260 | BLACK SHORT STORY (^)                                |
| BLST/ENGL 2360 | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)         |
| BLST/PSCI 3120 | THE AFRICAN AMERICAN EXPERIENCE IN POLITICS (^)      |
| BLST 4650      | SLAVERY AND RACE RELATIONS IN THE AMERICAS (^)       |
| CMST 4530      | INTERCULTURAL COMMUNICATION & POWER (^)              |
| CMST 4570      | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (^) |
| CMST/BLST 4580 | COMMUNICATING RACE, ETHNICITY & IDENTITY (^)         |
| ENGL 2230      | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (^)     |
| GERM 4160      | BLACK GERMANY: PEOPLE AND CULTURE                    |
| HIST 4420      | THE SIOUX TRIBE (^)                                  |
| HIST 4450      | NATIVE AMERICAN ENVIRONMENTALISM (^)                 |
| NAMS 1100      | INTRODUCTION TO NATIVE AMERICAN STUDIES              |
| RELI 3020      | NATIVE AMERICAN RELIGIONS                            |
| SOC 3900       | RACE AND ETHNIC RELATIONS IN THE U.S. (^)            |
| SOC 4250       | RESEARCHING LATIN AMERICAN MIGRATIONS (^)            |
| TED 2200       | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (^)         |

### Politics and History

|   |   |
|---|---|
| BLST 2410                                 | AFRICAN AMERICAN HISTORY I: 1619-1865             |
| BLST 2420                                 | AFRICAN-AMERICAN HISTORY II: 1865-1954            |
| BLST 2430                                 | AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY    |
| BLST/PSCI 3120                            | THE AFRICAN AMERICAN EXPERIENCE IN POLITICS (^)   |
| HIST 4720/<br>RELI 4160                   | THE HOLOCAUST (^)                                 |
| HIST 4730                                 | ISRAEL AND PALESTINE (^)                          |
| HIST 4740                                 | COMPARATIVE GENOCIDE (^)                          |
| HIST 4800                                 | U.S. AND THE MIDDLE EAST (^)                      |
| INST 2130                                 | GLOBAL CHALLENGES                                 |
| JMC 4310                                  | MEDIA & POLITICS (^)                              |
| PSCI/WGST 3130                            | WOMEN AND POLITICS (^)                            |
| PSCI/LLS 3140                             | LATINO/-A POLITICS (^)                            |
| PSCI 3220                                 | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING (^)   |
| SPAN 4960                                 | PRO-SEMINAR: CULTURE AND SOCIETY (^) <sup>1</sup> |
| WGST/PSCI 3100                            | LGBTQ+ POLITICS (^)                               |
| WGST/PSCI 3230                            | GENDER AND GLOBAL POLITICS (^)                    |
| <b>Environment, Health, and Economics</b> |   |
| ENVN 4320                                 | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH (^)    |
| GEOG 4160                                 | URBAN SUSTAINABILITY (^)                          |
| PHHB 4650                                 | GLOBAL HEALTH                                     |

|                                 |  |
|---------------------------------|--|
| PSCI 4290                       | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY (^) |
| SOC 4140                        | URBAN SOCIOLOGY (^)                            |
| SOC 4760                        | ENVIRONMENTAL SOCIOLOGY (^)                    |
| <b>Law, Justice, and Ethics</b> |  |
| BLST 3410                       | LAW AND THE BLACK COMMUNITY (^)                |
| CMST 4120                       | COMMUNICATION AND SOCIAL PROTEST (^)           |
| CRCJ 4060                       | CRIMINAL JUSTICE ETHICS (^)                    |
| LAWS 3170                       | ETHICS IN BUSINESS (^)                         |
| LAWS 4930                       | INTERNATIONAL BUSINESS LAW (^)                 |
| PHIL 1020                       | CONTEMPORARY MORAL PROBLEMS                    |
| PHIL 2030                       | INTRODUCTION TO ETHICS                         |
| PHIL 3040                       | PHILOSOPHY OF LAW (^)                          |
| PHIL 3050                       | ETHICAL THEORY (^)                             |
| PSCI 4140                       | CONSTITUTIONAL LAW: CIVIL RIGHTS (^)           |
| PSCI 4190                       | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)        |
| PSCI 4240                       | INTERNATIONAL CONFLICT RESOLUTION (^)          |
| PSCI 4260                       | INTERNATIONAL LAW (^)                          |
| RELI 2200                       | GLOBAL RELIGIOUS ETHICS: THE BASICS            |
| RELI 4200                       | COMPARATIVE RELIGIOUS ETHICS                   |
| THEA 3750                       | THEATRE AND SOCIAL JUSTICE                     |

**Total Credits****18**

<sup>1</sup> SPAN 4960 Human Rights Literature in Latin America

## Interdisciplinary Studies

The challenges of our complex world—the impact of AI on everyday life and work, climate change and inclusive societies, to name a few—require the ability to integrate knowledge and skills from more than one discipline. Interdisciplinary Studies allows you to design your own major, to think both creatively and critically. You can select complementary minors or majors in disciplines that reflect your interests and career goals, to create a professional profile unique to you.

Core coursework in the major explores diverse subjects that share a strong interdisciplinary theme. By emphasizing the practice of studying complex issues through a synthesis of different research methods and media, these courses equip students with skills in critical and creative thinking, problem-solving, and multi-faceted analysis.

You may choose to pursue either a Bachelor of Science with a cognate requirement or a Bachelor of Arts with a world language requirement in either the Integrative or Individualized Studies concentrations:

**Integrative Studies Concentration:** This academic plan allows you to create your own major by combining established minor programs of study. Your plan must include two minors (<https://www.unomaha.edu/college-of-arts-and-sciences/academics/minors-at-uno.php>) (or more, depending on the student's interest) from any academic programs in the university to build content knowledge in specific areas of focus. Students must complete all requirements of each minor program of study, with at least 18 credit hours coming from upper-division courses.

**Individualized Studies Concentration:** This academic plan allows you to create your own major through individual, complementary courses. Your plan must include a total of at least 18 credits of upper-division coursework and 36 total credits from any academic programs in the university to build content knowledge in specific areas of focus. Students are required to draft an intentional plan of study, including a rationale and course outline.

**Exploratory Studies Concentration:** If you are a first-year student with fewer than 45 credits who has not declared a major or been admitted to the major of your choice, you will be admitted to Exploratory Studies. In this concentration, you will enjoy an immediate academic home that allows you to explore different disciplines and programs by taking Exploratory Studies 1010, designed to give you knowledge about various majors and minors at UNO. You will engage in cross-curricular academic advising, career assessment, guided exploration of majors and careers, mentoring, and programming designed to provide you the support you need as you figure out your best-fit major. You will have the opportunity to interact with advisors, faculty, and peer mentors from different fields to discover your passions and make an informed decision on a major. Exploratory Studies majors are required to declare a major within their first 45 credit hours in any college, which includes the option to switch to either the Integrative Studies or Individualized Studies concentrations in Interdisciplinary Studies (see above).

## Declaring the Integrative or Individualized Concentration

Students are required to meet with the Interdisciplinary Studies advisor before declaring.

## Double Majors

Double majoring in Interdisciplinary Studies with the Integrative or Individualized concentration offers students an opportunity to explore a second field of interest, to acquire credits required by a graduate program, or to add an area of expertise to their profile, without fulfilling all the requirements of a second major. Those interested in double majoring should pursue another UNO program that does not overlap substantially with their concentration coursework.

## Residency

Students choosing either the Integrative or Individualized Studies Concentration must complete INDS 1000 and INDS 4950 and at least 12 additional hours of major requirements at UNO. Students choosing the Integrative Studies Concentration must complete at least 6 hours of coursework in each minor that fulfills the concentration requirements.

## Contact Information

Sara Marzioli, Director  
[smarzioli@unomaha.edu](mailto:smarzioli@unomaha.edu)  
 website (<https://www.unomaha.edu/college-of-arts-and-sciences/interdisciplinary-studies/>)

- Interdisciplinary Studies, Bachelor of Arts (p. 174)
- Interdisciplinary Studies, Bachelor of Science (p. 178)

Because the Interdisciplinary Studies major is uniquely crafted by each student through either the Individualized or Integrative Concentration, students can apply their skills gained to numerous occupational fields including, but not limited to the following:

- business
- the arts
- non-profit sector
- environmental policy
- urban studies
- language and culture studies
- social justice
- helping professions
- information and technology
- education
- law

- medicine and allied health professions
- human resources
- public service sector

## Interdisciplinary Studies, Bachelor of Arts

### Interdisciplinary Studies, Bachelor of Arts Requirements

| Code  | Title   | Credits      |
|---|---|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |              |
| Minimum of "C-" required  |   |              |
| <b>Fundamental Skills</b>   |   | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |   |              |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |              |
| <b>Oral Communication – 3 hrs.</b>  |   |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |              |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |              |
| STAT 1530   | ELEMENTARY STATISTICS                                   |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| <b>Select a Concentration</b>   |   | <b>50-51</b> |
| Individualized Studies  |   |              |
| Integrative Studies   |   |              |
| This academic plan may include one or more semesters of study abroad, or internships, if appropriate.   |   |              |
| <b>College Breadth</b>  |   |              |
| College of Arts and Sciences' college breadth requirement satisfied by this major   |   |              |
| <b>Bachelor of Arts Language Requirement</b>  |   | <b>16</b>    |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120   |   |              |
| <b>ELECTIVES</b>  |   |              |
| Elective hours as required to reach a total of 120 hours  |   |              |

## Interdisciplinary Studies, Bachelor of Arts Concentrations

- Concentration in Exploratory Studies (p. 174)
- Concentration in Individualized Studies (p. 174)
- Concentration in Integrative Studies (p. 176)

### Exploratory Studies Concentration

#### Interdisciplinary Studies, Bachelor of Arts - Exploratory Studies Requirements

If you are a first-year student with fewer than 45 credits who has not declared a major or been admitted to the major of your choice, you will be admitted to Exploratory Studies. In this concentration, you will enjoy an immediate academic home that allows you to explore different disciplines and programs by taking Exploratory Studies 1010, designed to give you knowledge about various majors and minors at UNO. You will engage in cross-curricular academic advising, career assessment, guided exploration of majors and careers, mentoring, and programming designed to provide you the support you need as you figure out your best-fit major. You will have the opportunity to interact with advisors, faculty, and peer mentors from different fields to discover your passions and make an informed decision on a major. Exploratory Studies majors are required to declare a major within their first 45 credit hours in any college

| Code                      | Title  | Credits |
|---------------------------|--|---------|
| <b>Course Requirement</b> |  |         |
| EXPL 1000                 | EXPLORATORY STUDIES  | 3       |
| or EXPL 1010              | EXPLORATORY STUDIES: COLLEGE EXPLORATION AND SUCCESS SEMINAR |         |

### Individualized Studies Concentration

#### Interdisciplinary Studies, Bachelor of Arts - Individualized Studies Concentration Requirements

This academic plan allows you to create your own major through individual, complementary courses. Your plan must include a total of at least 18 credits of upper-division coursework and 36 total credits from any academic programs in the university to build content knowledge in specific areas of focus. Students must draft an intentional plan of study with the Interdisciplinary Studies advisor before being eligible to declare the Individualized concentration.

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

|   |
|---|
| Social Science – 3 hrs.                                   |
| Humanities – 3 hrs.                                       |
| Natural & Physical Science (must complete a lab) – 4 hrs. |
| Arts – 3 hrs.   |

**Individual and Social Responsibility 6**

|   |
|---|
| Cultural Knowledge – 3 hrs.             |
| Civic Knowledge and Engagement – 3 hrs. |

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Interdisciplinary Studies Major with a Concentration in Individualized Studies - 50-51 Hours Required****Required Coursework 6**

|           |  |
|-----------|--|
| INDS 1000 | INTRODUCTION TO INTERDISCIPLINARY STUDIES (** ^) |
| INDS 4950 | INTERDISCIPLINARY STUDIES: CAPSTONE COURSE (^)   |

**Select one course from the following methods or statistics courses 3**

|                   |   |
|-------------------|---|
| BSAD 2130         | PRINCIPLES OF BUSINESS STATISTICS (^)                       |
| CRCJ 2510         | RESEARCH METHODS (^)  |
| CRCJ/SOWK/PA 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| PSCI 2000         | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^)           |
| PSCI 3000         | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^)              |
| PSYC 3130         | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)                  |
| SOC 2130          | SOCIAL STATISTICS (^)                                       |
| SOC 3510          | RESEARCH METHODS (^)  |
| STAT 1530         | ELEMENTARY STATISTICS (** ^)                                |
| STAT 3000         | STATISTICAL METHODS I (^)                                   |

**Additional hours to be determined in consultation with the advisor 5-6****Hours to be determined in consultation with advisor 36**

Plan must include a total of at least 18 credits of 3000/4000 Level coursework and 36 total credits from any academic programs in the university to build content knowledge in specific areas of focus. Must draft an intentional plan of study with the Interdisciplinary Studies advisor before being eligible to declare the Individualized concentration.

This academic plan may include one or more semesters of study abroad, or internships, if appropriate.

**College Breadth**

College of Arts and Sciences' college breadth requirement satisfied by this major

**BA Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**Interdisciplinary Studies, Bachelor of Arts - Individualized Studies Concentration Four-Year Plan****Freshman**

| Fall  |   | Credits   |
|---|---|-----------|
| INDS 1000   | INTRODUCTION TO INTERDISCIPLINARY STUDIES | 3         |
| ENGL 1150   | ENGLISH COMPOSITION I                     | 3         |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     | 3         |
| or CMST 2120  | or ARGUMENTATION AND DEBATE               |           |
| General Education Course or Elective  |   | 3         |
| General Education Course or Elective  |   | 3         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |           |
| <b>Credits</b>  |   | <b>15</b> |

**Spring**

|  |   |              |
|--|---|--------------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3            |
| Approved Mathematics Course  |   | 3-4          |
| General Education Course or Elective   |   | 3            |
| General Education Course or Elective   |   | 3            |
| General Education Course or Elective   |   | 3            |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |              |
| <b>Credits</b>   |   | <b>15-16</b> |

**Sophomore****Fall**

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 4 |
| World Language 1110                  | 5 |
| Elective course                      | 3 |
| Major course                         | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15****Spring**

|                     |   |
|---------------------|---|
| World Language 1120 | 5 |
|---------------------|---|

|  |           |
|--|-----------|
| Elective course  | 3         |
| Major course   | 3         |
| Major course   | 3         |
| Major course   | 3         |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |           |
| <b>Credits</b>   | <b>17</b> |

**Junior****Fall**

|  |           |
|--|-----------|
| World Language 2110  | 3         |
| Major course   | 3         |
| Major course   | 3         |
| Upper-division major course  | 3         |
| Approved Research Course   | 3         |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |           |
| <b>Credits</b>   | <b>15</b> |

**Spring**

|  |           |
|--|-----------|
| World Language 2120  | 3         |
| Major course   | 3         |
| Upper-division major course  | 3         |
| Upper-division major course  | 3         |
| Upper-division major course  | 3         |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |           |
| <b>Credits</b>   | <b>15</b> |

**Senior****Fall**

|  |           |
|--|-----------|
| Upper-division major course  | 3         |
| Upper-division major course  | 3         |
| Additional major course or Elective  | 3         |
| Additional major course or Elective  | 3         |
| Elective   | 3         |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |           |
| <b>Credits</b>   | <b>15</b> |

**Spring**

|                                     |  |   |
|-------------------------------------|--|---|
| INDS 4950                           | INTERDISCIPLINARY STUDIES: CAPSTONE COURSE | 3 |
| Additional major course or Elective |  | 3 |
| Additional major course or Elective |  | 3 |
| Additional major course or Elective |  | 3 |
| Additional major course or Elective |  | 1 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **13**

**Total Credits** **120-121**

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Integrative Studies Concentration

### Interdisciplinary Studies, Bachelor of Arts - Integrative Studies Concentration Requirements

This academic plan allows you to create your own major by combining established minor programs of study. Your plan must include two minors (<https://www.unomaha.edu/college-of-arts-and-sciences/academics/minors-at-uno.php>) (or more, depending on the student's interest) from any academic program in the university to build content knowledge in specific areas of focus. Students must complete all requirements of each minor program of study, with at least 18 credit hours coming from upper-division courses.

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |



|   |   |              |
|---|---|--------------|
| or CMST 2120  | ARGUMENTATION AND DEBATE                                    |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING     |              |
| or MATH 1130  | QUANTITATIVE LITERACY                                       |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS         |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                             |              |
| STAT 1530   | ELEMENTARY STATISTICS                                       |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| <b>MAJOR REQUIREMENTS</b>   |   |              |
| **Course will satisfy UNO's General Education requirement   |   |              |
| ^Course requires pre-requisite(s)   |   |              |
| <b>Interdisciplinary Studies Major with a Concentration in Integrative Studies 50-51 Hours Required</b>   |   |              |
| <b>Required Coursework</b>  |   | <b>6</b>     |
| INDS 1000   | INTRODUCTION TO INTERDISCIPLINARY STUDIES (** ^)            |              |
| INDS 4950   | INTERDISCIPLINARY STUDIES: CAPSTONE COURSE (^)              |              |
| <b>Select one course from the following methods or statistics courses</b>   |   | <b>3</b>     |
| CRCJ 2510   | RESEARCH METHODS (^)  |              |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS                           |              |
| CRCJ/SOWK/PA 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |              |
| PA 2000   | LEADERSHIP & ADMINISTRATION (** ^)                          |              |
| PSCI 3000   | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^)              |              |
| PSYC 3130   | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)                  |              |
| SOC 2130  | SOCIAL STATISTICS (^)                                       |              |
| SOC 3510  | RESEARCH METHODS (^)  |              |
| STAT 1530   | ELEMENTARY STATISTICS (** ^)                                |              |
| STAT 3000   | STATISTICAL METHODS I (^)                                   |              |
| <b>Additional hours to be determined in consultation with the advisor</b>   |   | <b>5-11</b>  |
| <b>Select any two UNO minors</b>  |   | <b>30-36</b> |
| Must complete all requirements of each minor program of study, with at least 18 credit hours coming from 3000/4000 Level courses.                                 |   |              |
| This academic plan may include one or more semesters of study abroad, or internships, if appropriate.   |   |              |
| <b>College Breadth</b>  |   |              |
| College of Arts and Sciences' college breadth requirement satisfied by this major   |   |              |

**BA Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Interdisciplinary Studies, Bachelor of Arts - Integrative Studies Concentration Four-Year Plan

**Freshman**

| <b>Fall</b>   |  | <b>Credits</b> |
|---|--|----------------|
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3              |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3              |
| INDS 1000   | INTRODUCTION TO INTERDISCIPLINARY STUDIES            | 3              |
| General Education Course or Elective  |  | 3              |
| General Education Course or Elective  |  | 3              |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |                |
| <b>Credits</b>  |  | <b>15</b>      |

**Spring**

|  |   |              |
|--|---|--------------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3            |
| Approved Mathematics Course  |   | 3-4          |
| General Education Course or Elective   |   | 3            |
| General Education Course or Elective   |   | 3            |
| General Education Course or Elective   |   | 3            |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |              |
| <b>Credits</b>   |   | <b>15-16</b> |

**Sophomore**

| <b>Fall</b>  |  |           |
|--|--|-----------|
| World Language sequence class #1   |  | 5         |
| General Education Course or Elective   |  | 4         |
| INTE concentration: Minor One course   |  | 3         |
| Elective   |  | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |  |           |
| <b>Credits</b>   |  | <b>15</b> |
| <b>Spring</b>  |  |           |
| World Language sequence class #2   |  | 5         |
| Elective   |  | 3         |
| INTE concentration: Minor One course   |  | 3         |
| INTE concentration: Minor One course (3000-4000 level)   |  | 3         |
| INTE concentration: Minor Two course   |  | 3         |



Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits** **17**

### Junior

#### Fall

|  |   |
|--|---|
| World Language sequence class #3                       | 3 |
| INTE concentration: Minor One course (3000-4000 level) | 3 |
| INTE concentration: Minor One course (3000-4000 level) | 3 |
| INTE concentration: Minor Two course                   | 3 |
| Approved Statistics/Research Course                    | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15**

#### Spring

|  |   |
|--|---|
| World Language sequence class #4                       | 3 |
| INTE concentration: Minor One course (3000-4000 level) | 3 |
| INTE concentration: Minor Two course (3000-4000 level) | 3 |
| INTE concentration: Minor Two course (3000-4000 level) | 3 |
| General Education, Major, or Elective Course           | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

### Senior

#### Fall

|  |   |
|--|---|
| INTE concentration: Minor Two course (3000-4000 level) | 3 |
| INTE concentration: Minor Two course (3000-4000 level) | 3 |
| General Education, Major, or Elective Course           | 3 |
| General Education, Major, or Elective Course           | 3 |
| General Education, Major, or Elective Course           | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

#### Spring

|  |  |   |
|--|--|---|
| INDS 4950                                    | INTERDISCIPLINARY STUDIES: CAPSTONE COURSE | 3 |
| General Education, Major, or Elective Course |  | 3 |
| General Education, Major, or Elective Course |  | 3 |
| General Education, Major, or Elective Course |  | 3 |
| General Education, Major, or Elective Course |  | 1 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **13**

**Total Credits** **120-121**

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO

## Interdisciplinary Studies, Bachelor of Science

## Interdisciplinary Studies, Bachelor of Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |

|   |              |
|---|--------------|
| Social Science – 3 hrs.   |              |
| Humanities – 3 hrs.   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.                         |              |
| Arts – 3 hrs.   |              |
| <b>Individual and Social Responsibility</b>                                       | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |              |
| Civic Knowledge and Engagement – 3 hrs.   |              |
| <b>Select a concentration</b>   | <b>50-51</b> |
| Individualized Studies  |              |
| Integrative Studies   |              |
| <b>College Breadth</b>  |              |
| College of Arts and Sciences' college breadth requirement satisfied by this major |              |
| <b>Bachelor of Science Cognate Requirement</b>                                    | <b>15</b>    |
| See advisor.  |              |
| <b>ELECTIVES</b>  |              |
| Elective hours as required to reach a total of 120 hours                          |              |

## Interdisciplinary Studies, Bachelor of Science Concentrations

- Concentration in Exploratory Studies (p. 179)
- Concentration in Individualized Studies (p. 179)
- Concentration in Integrative Studies (p. 181)

## Exploratory Studies Concentration

## Interdisciplinary Studies, Bachelor of Science - Exploratory Studies Requirements

If you are a first-year student with fewer than 45 credits who has not declared a major or been admitted to the major of your choice, you will be admitted to Exploratory Studies. In this concentration, you will enjoy an immediate academic home that allows you to explore different disciplines and programs by taking Exploratory Studies 1010, designed to give you knowledge about various majors and minors at UNO. You will engage in cross-curricular academic advising, career assessment, guided exploration of majors and careers, mentoring, and programming designed to provide you the support you need as you figure out your best-fit major. You will have the opportunity to interact with advisors, faculty, and peer mentors from different fields to discover your passions and make an informed decision on a major. Exploratory Studies majors are required to declare a major within their first 45 credit hours in any college.

| Code                      | Title  | Credits |
|---------------------------|--|---------|
| <b>Course Requirement</b> |  |         |
| EXPL 1000                 | EXPLORATORY STUDIES  | 3       |
| or EXPL 1010              | EXPLORATORY STUDIES: COLLEGE EXPLORATION AND SUCCESS SEMINAR |         |

## Individualized Studies Concentration

## Interdisciplinary Studies, Bachelor of Science - Individualized Studies Concentration Requirements

This academic plan allows you to create your own major through individual, complementary courses. Your plan must include a total of at least 18 credits of upper-division coursework and 36 total credits from any academic programs in the university to build content knowledge in specific areas of focus. Students must draft an intentional plan of study with the Interdisciplinary Studies advisor before being eligible to declare the Individualized concentration.

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Interdisciplinary Studies Major with a Concentration in Individualized Studies 50-51 Hours Required</b>  |   |           |
| <b>Required Coursework</b>  |   | <b>6</b>  |
| INDS 1000   | INTRODUCTION TO INTERDISCIPLINARY STUDIES (** ^)        |           |

|   |   |            |
|---|---|------------|
| INDS 4950   | INTERDISCIPLINARY STUDIES: CAPSTONE COURSE (^)              |            |
| <b>Select one course from the following methods and statistics courses</b>  |   | <b>3</b>   |
| CRCJ 2510   | RESEARCH METHODS (^)  |            |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                       |            |
| CRCJ 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |            |
| or SOWK 3000  | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR     |            |
| or PA 3000  | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR     |            |
| PSCI 2000   | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^)           |            |
| PSCI 3000   | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^)              |            |
| PSYC 3130   | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)                  |            |
| SOC 2130  | SOCIAL STATISTICS (^)                                       |            |
| SOC 3510  | RESEARCH METHODS (^)  |            |
| STAT 1530   | ELEMENTARY STATISTICS (** ^)                                |            |
| STAT 3000   | STATISTICAL METHODS I (^)                                   |            |
| <b>Additional hours to be determined in consultation with the advisor</b>   |   | <b>5-6</b> |
| <b>Hours to be determined in consultation with advisor</b>  |   | <b>36</b>  |
| Plan must include a total of at least 18 credits of 3000/4000 Level coursework and 36 total credits from any academic programs in the university to build content knowledge in specific areas of focus. Must draft an intentional plan of study with the Interdisciplinary Studies advisor before being eligible to declare the Individualized concentration. |   |            |
| This academic plan may include one or more semesters of study abroad, or internships, if appropriate.   |   |            |
| <b>College Breadth</b>  |   |            |
| College of Arts and Sciences' college breadth requirement satisfied by this major   |   |            |
| <b>BS Cognate Requirement</b>   |   | <b>15</b>  |
| See advisor   |   |            |
| <b>ELECTIVES</b>  |   |            |
| Elective hours as required to reach a total of 120 hours  |   |            |

## Interdisciplinary Studies, Bachelor of Science - Individualized Studies Concentration Four-Year Plan

### Freshman

| Fall                                 |   | Credits |
|--------------------------------------|---|---------|
| INDS 1000                            | INTRODUCTION TO INTERDISCIPLINARY STUDIES | 3       |
| ENGL 1150                            | ENGLISH COMPOSITION I                     | 3       |
| CMST 1110                            | PUBLIC SPEAKING FUNDS                     | 3       |
| or CMST 2120                         | or ARGUMENTATION AND DEBATE               |         |
| General Education Course or Elective |   | 3       |
| General Education Course or Elective |   | 3       |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 15**

### Spring

|                                      |   |     |
|--------------------------------------|---|-----|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3   |
| Approved Mathematics Course          |   | 3-4 |
| General Education Course or Elective |   | 3   |
| General Education Course or Elective |   | 3   |
| General Education Course or Elective |   | 3   |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 15-16**

### Sophomore

#### Fall

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
| Major course                         |  | 3 |
| Major course                         |  | 3 |
| Major course                         |  | 3 |
| General Education Course or Elective |  | 4 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 16**

### Spring

|                             |  |   |
|-----------------------------|--|---|
| Major course                |  | 3 |
| Cognate course              |  | 3 |
| Upper-division major course |  | 3 |
| Upper-division major course |  | 3 |
| Elective                    |  | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

### Junior

#### Fall

|                          |  |   |
|--------------------------|--|---|
| Cognate course           |  | 3 |
| Major course             |  | 3 |
| Major course             |  | 3 |
| Approved Research Course |  | 3 |
| Elective                 |  | 2 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 14**

**Spring**

|                             |   |
|-----------------------------|---|
| Upper-division major course | 3 |
| Upper-division major course | 3 |
| Major course                | 3 |
| Cognate course              | 3 |
| Cognate course              | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Senior****Fall**

|                                     |   |
|-------------------------------------|---|
| Upper-division major course         | 3 |
| Upper-division major course         | 3 |
| Major course                        | 3 |
| Additional Major course or Elective | 3 |
| Additional Major course of Elective | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| INDS 4950                            | INTERDISCIPLINARY STUDIES: CAPSTONE COURSE | 3 |
| Cognate course                       |  | 3 |
| General Education Course or Elective |  | 3 |
| Additional major course or Elective  |  | 3 |
| Additional major course or Elective  |  | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120-121**

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career

advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Integrative Studies Concentration

### Interdisciplinary Studies, Bachelor of Science - Integrative Studies Concentration Requirements

This academic plan allows you to create your own major by combining established minor programs of study. Your plan must include two minors (<https://www.unomaha.edu/college-of-arts-and-sciences/academics/minors-at-uno.php>) (or more, depending on the student's interest) from any academic program in the university to build content knowledge in specific areas of focus. Students must complete all requirements of each minor program of study, with at least 18 credit hours coming from upper-division courses.

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |

**Interdisciplinary Studies Major with a Concentration in Integrative Studies - 50-51 Hours Required****Required Coursework 6**

|           |  |  |
|-----------|--|--|
| INDS 1000 | INTRODUCTION TO INTERDISCIPLINARY STUDIES (** ^) |  |
|-----------|--|--|

|           |  |  |
|-----------|--|--|
| INDS 4950 | INTERDISCIPLINARY STUDIES: CAPSTONE COURSE (^) |  |
|-----------|--|--|

**Select one course from the following methods or statistics courses 3**

|           |                                       |  |
|-----------|---------------------------------------|--|
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS (^) |  |
|-----------|---------------------------------------|--|

|           |                      |  |
|-----------|----------------------|--|
| CRCJ 2510 | RESEARCH METHODS (^) |  |
|-----------|----------------------|--|

|           |   |  |
|-----------|---|--|
| CRCJ 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |  |
|-----------|---|--|

|              |   |  |
|--------------|---|--|
| or SOWK 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR |  |
|--------------|---|--|

|            |   |  |
|------------|---|--|
| or PA 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR |  |
|------------|---|--|

|           |  |  |
|-----------|--|--|
| PSCI 2000 | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (** ^) |  |
|-----------|--|--|

|           |  |  |
|-----------|--|--|
| PSCI 3000 | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^) |  |
|-----------|--|--|

|           |  |  |
|-----------|--|--|
| PSYC 3130 | STATISTICS FOR THE BEHAVIORAL SCIENCES (^) |  |
|-----------|--|--|

|          |                       |  |
|----------|-----------------------|--|
| SOC 2130 | SOCIAL STATISTICS (^) |  |
|----------|-----------------------|--|

|          |                      |  |
|----------|----------------------|--|
| SOC 3510 | RESEARCH METHODS (^) |  |
|----------|----------------------|--|

|           |                              |  |
|-----------|------------------------------|--|
| STAT 1530 | ELEMENTARY STATISTICS (** ^) |  |
|-----------|------------------------------|--|

|           |                           |  |
|-----------|---------------------------|--|
| STAT 3000 | STATISTICAL METHODS I (^) |  |
|-----------|---------------------------|--|

**Additional hours to be determined in consultation with the advisor 5-11****Select any two UNO minors 30-36**

Must complete all requirements of each minor program of study, with at least 18 credit hours coming from 3000/4000 Level courses.

This academic plan may include one or more semesters of study abroad, or internships, if appropriate.

**College Breadth**

College of Arts and Sciences' college breadth requirement satisfied by this major

**BS Cognate Requirement 15**

See advisor

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Interdisciplinary Studies, Bachelor of Science - Integrative Studies Concentration Four-Year Plan

**Freshman****Fall Credits**

|           |   |   |
|-----------|---|---|
| INDS 1000 | INTRODUCTION TO INTERDISCIPLINARY STUDIES | 3 |
|-----------|---|---|

|           |                       |   |
|-----------|-----------------------|---|
| ENGL 1150 | ENGLISH COMPOSITION I | 3 |
|-----------|-----------------------|---|

|           |                       |   |
|-----------|-----------------------|---|
| CMST 1110 | PUBLIC SPEAKING FUNDS | 3 |
|-----------|-----------------------|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 15**

**Spring**

|           |   |   |
|-----------|---|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
|-----------|---|---|

|                             |  |     |
|-----------------------------|--|-----|
| Approved Mathematics Course |  | 3-4 |
|-----------------------------|--|-----|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 15-16**

**Sophomore****Fall**

|                                      |  |   |
|--------------------------------------|--|---|
| INTE Concentration: Minor One course |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| INTE Concentration: Minor One course |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| INTE Concentration: Minor Two course |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|          |  |     |
|----------|--|-----|
| Elective |  | 2-3 |
|----------|--|-----|

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 14-15**

**Spring**

|  |  |   |
|--|--|---|
| INTE Concentration: Minor One course (3000-4000 level) |  | 3 |
|--|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| INTE Concentration: Minor Two course |  | 3 |
|--------------------------------------|--|---|

|  |  |   |
|--|--|---|
| INTE Concentration: Minor Two course (3000-4000 level) |  | 3 |
|--|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 4 |
|--------------------------------------|--|---|

|                |  |   |
|----------------|--|---|
| Cognate course |  | 3 |
|----------------|--|---|

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 16**

**Junior****Fall**

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|  |  |   |
|--|--|---|
| INTE Concentration: Minor One course (3000-4000 level) |  | 3 |
|--|--|---|

|  |  |   |
|--|--|---|
| INTE Concentration: Minor Two course (3000-4000 level) |  | 3 |
|--|--|---|

|                                     |  |   |
|-------------------------------------|--|---|
| Approved Statistics/Research Course |  | 3 |
|-------------------------------------|--|---|

|                |  |   |
|----------------|--|---|
| Cognate course |  | 3 |
|----------------|--|---|

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15**



**Spring**

|  |   |
|--|---|
| INTE Concentration: Minor One course (3000-4000 level) | 3 |
| INTE Concentration: Minor One course (3000-4000 level) | 3 |
| INTE Concentration: Minor Two course (3000-4000 level) | 3 |
| Cognate course   | 3 |
| Cognate course   | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Senior****Fall**

|  |   |
|--|---|
| INTE Concentration: Minor Two course (3000-4000 level) | 3 |
| General Education, Major, or Elective Course           | 3 |
| General Education, Major, or Elective Course           | 3 |
| General Education, Major, or Elective Course           | 3 |
| Cognate course   | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|  |  |   |
|--|--|---|
| INDS 4950                                    | INTERDISCIPLINARY STUDIES: CAPSTONE COURSE | 3 |
| General Education, Major, or Elective Course |  | 3 |
| General Education, Major, or Elective Course |  | 3 |
| General Education, Major, or Elective Course |  | 3 |
| General Education, Major, or Elective Course |  | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120-122**

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career

advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## International Studies

The International Studies (INST) Major at UNO is an interdisciplinary program that provides an international focus and foundation for professional careers in the private, nonprofit, and public sectors, as well as graduate studies. Among these careers and further studies are international management and business, diplomacy and foreign service, national security and intelligence, international law and policy, conflict mediation, humanitarian aid, international development, non-profit organizations, international education, and public affairs. The members of the International Studies Faculty encourage students majoring in International Studies to place significant emphasis on the study of world languages and cultures. Many INST majors have a double major or a minor in a world language.

At a minimum, in order to satisfy the INST world language requirement, majors who are completing an Area Studies Concentration must complete the equivalent of three years of one university-level world language study (completion of a minor is recommended) or two years each of two world languages. At least one world language studied by those completing an Area Studies Concentration must be associated with the area chosen.

For students who are completing the general curriculum option, the Global Strategic Studies concentration or the International Management and Business Leadership concentration, the world language requirement will be two years of one world language (16 hours) or one year of world language (10 hours) supplemented with 6 hours of language credits in the same language from studying abroad.

If a student is a native speaker of another language, formal world language study may not be required.

## Student Groups

Sigma Iota Rho (International Studies Honorary Society)

## Fast Track Program - Master of Science in Political Science for International Studies Majors

The Department of Political Science has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

**Program Specifics:**

- This program is available for undergraduate students pursuing BA/BS in Political Science or BA in International Studies and desiring to pursue a Master of Science in Political Science.
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit it to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 for graduate coursework is required to remain in good standing



- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Contact

Dr. Brett Kyle, Director  
288B Arts and Sciences Hall  
bjkyle@unomaha.edu

Website (<https://www.unomaha.edu/college-of-arts-and-sciences/international-studies/>)

## Degrees Offered

- International Studies, Bachelor of Arts (p. 184)

## Minors Offered

- International Studies Minor (p. 194)

As an International Studies major, a world of opportunities open up that span the globe. The International Studies major cultivates skills that are translatable across continents and cultures. Even within the United States, there are a wealth of possibilities for International Studies Majors.

College graduates need to be prepared for a new world - one digitally linked, partnered in trade, and demanding transnational solutions. UNO's International Studies Major (INST), an interdisciplinary Bachelor of Arts degree program, provides undergraduate students with the necessary background in global affairs and intercultural communications. The degree is individualized, flexible and marketable.

### Career Opportunities

By nature, International Studies majors make exceptional employees in virtually any field because of their ability to communicate effectively, think critically and solve complex problems. These timeless skills make them attractive to employers from all walks of society. Specifically, International Studies majors tend to pursue careers in the following fields:

- Diplomacy and Foreign Service
- Security and Intelligence Analysis
- Public Service
- Conflict Mediation
- Communications
- Cultural Diversity Training
- Economics
- English as a Second Language (ESL) Teaching
- Sustainable Development
- Executive
- Human Resources
- Humanitarian Relief
- Human Rights
- Immigration
- International Commerce/Global Business
- International Development
- International Education

- International Law and Policy
- International Non-profit Sector
- Lobbyist
- Military
- Peace Corps

## International Studies, Bachelor of Arts

A major in International Studies must meet or exceed the requirements for a major as specified by the College of Arts and Sciences. Beyond the core courses and foreign language classes, the curriculum for INST majors is constructed of those courses that have an international focus in disciplines such as history, political science, information technology, geography, sociology, management, marketing, economics, philosophy and religion, English, and related courses in the fine arts and humanities.

INST majors can choose either a general curriculum INST degree or choose a concentration in Global Strategic Studies, Area Studies or International Management and Business Leadership.

All coursework taken for the International Studies major must be completed with a grade of "C-" or better.

## Bachelor of Arts International Studies Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS -34 Hours Required</b>  |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**International Studies Major - 33 Hours Required****Required Coursework** **12**

|           |  |
|-----------|--|
| INST 2130 | GLOBAL CHALLENGES (**)                         |
| INST 4140 | TOPICS IN INTERNATIONAL STUDIES (^)            |
| INST 4990 | SENIOR E-PORTFOLIO (Required in last semester) |
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY (**)                  |
| PSCI 2210 | INTRODUCTION TO INTERNATIONAL RELATIONS (**)   |

**Select from two of the following classes** **6**

|                    |  |
|--------------------|--|
| ANTH 1050          | INTRODUCTION TO ANTHROPOLOGY (**)                              |
| ANTH 4210          | CULTURAL ANTHROPOLOGY  |
| ART 1040           | GLOBAL INDIGENOUS ART (**)                                     |
| BLST/PSCI 2130     | AFRICAN POLITICS (**)  |
| BSAD 2700          | GLOBALIZATION OF BUSINESS ENTERPRISE (**)                      |
| CMST 2010          | INTERPERSONAL COMMUNICATION (**)                               |
| CMST 2300          | INTERGROUP DIALOGUE (**)                                       |
| CMST 4570          | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (** ^)        |
| CYBR 1100          | INTRODUCTION TO INFORMATION SECURITY (**)                      |
| ECON 1200          | SURVEY OF ECONOMICS (**)                                       |
| ECON 2200          | PRINCIPLES OF ECONOMICS (MICRO) (**)                           |
| ECON 2220          | PRINCIPLES OF ECONOMICS (MACRO) (**)                           |
| ENGL 2510          | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (**)       |
| ENGL 2520          | GLOBAL EXPLORATIONS: THE MODERN WORLD                          |
| HIST/LLS 2480      | HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT (**)      |
| HIST 2720          | RUSSIA: FROM THE CRIMEAN WAR TO THE PRESENT (**)               |
| HIST 2810          | HISTORY OF CHINA: FROM THE MANCHU CONQUEST TO THE PRESENT (**) |
| HIST 2820          | JAPAN: FROM WARRING STATES TO THE MODERN DAY (**)              |
| HIST 2920          | HISTORY OF MODERN AFRICA                                       |
| INST 1050          | INTRODUCTION TO GLOBAL MIGRATIONS                              |
| LLS 1000           | LATIN AMERICA: AN INTRODUCTION (**)                            |
| LLS/MUS 2810       | MUSIC IN LATIN AMERICAN CULTURE (**)                           |
| PHIL 2040          | INTRODUCTION TO EAST ASIAN PHILOSOPHY (**)                     |
| PSCI 2500          | INTRODUCTION TO COMPARATIVE POLITICS (**)                      |
| RELI 1010          | RELIGIONS OF THE WORLD (**)                                    |
| RELI 2020          | RELIGION AND HUMAN RIGHTS (**)                                 |
| RELI/HIST/SOC 2190 | THE MODERN MIDDLE EAST   |

|                |                                     |
|----------------|-------------------------------------|
| RELI 2200      | GLOBAL RELIGIOUS ETHICS: THE BASICS |
| SUST 1000      | INTRODUCTION TO SUSTAINABILITY (**) |
| WGST/PSCI 3230 | GENDER AND GLOBAL POLITICS (**)     |

**3000-4000 Level coursework in International Studies to be determined in consultation with advisor** **15****International Studies Major World Language Requirement** **16**

The International Studies major requires two years of one world language or the equivalent of levels 1110-2120. The BA World Language requirement is also satisfied with this major.

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - e hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement** **0**

See Major.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**International Studies, Bachelor of Arts Concentrations**

- Area Studies Concentration (p. 187)
- Global Strategic Studies Concentration (p. 189)
- International Management and Business Leadership Concentration (p. 192)

**Bachelor of Arts International Studies - No Concentration Four Year Plan****Freshman**

| <b>Fall</b>   |  | <b>Credits</b> |
|---|--|----------------|
| ENGL 1150   | ENGLISH COMPOSITION I  | 3              |
| INST 2130   | GLOBAL CHALLENGES  | 3              |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH SUPPORT | 3-4            |
| World Language 1110                                       |  | 5              |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

| Credits             |   | 14-15 |
|---------------------|---|-------|
| <b>Spring</b>       |   |       |
| ENGL 1160           | COLLEGE RESEARCH AND INFORMATION LITERACY | 3     |
| GEOG 1000           | WORLD REGIONAL GEOGRAPHY                  | 3     |
| CMST 1110           | PUBLIC SPEAKING FUNDS                     | 3     |
| or CMST 2120        | or ARGUMENTATION AND DEBATE               |       |
| World Language 1120 |   | 5     |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

| Credits                              |   | 14 |
|--------------------------------------|---|----|
| <b>Sophomore</b>                     |   |    |
| <b>Fall</b>                          |   |    |
| PSCI 2210                            | INTRODUCTION TO INTERNATIONAL RELATIONS | 3  |
| INST requirement                     |   | 3  |
| World Language 2110                  |   | 3  |
| General Education Course or Elective |   | 4  |
| General Education Course or Elective |   | 3  |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

| Credits                              |  | 16 |
|--------------------------------------|--|----|
| <b>Spring</b>                        |  |    |
| INST requirement                     |  | 3  |
| Elective                             |  | 3  |
| World Language 2120                  |  | 3  |
| General Education Course or Elective |  | 3  |
| General Education Course or Elective |  | 3  |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

| Credits  |                                 | 15 |
|--|---------------------------------|----|
| <b>Junior</b>  |                                 |    |
| <b>Fall</b>  |                                 |    |
| INST 4140  | TOPICS IN INTERNATIONAL STUDIES | 3  |
| International Studies 3000-4000 Course   |                                 | 3  |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |                                 |    |
| Elective   |                                 | 3  |
| Elective   |                                 | 3  |
| Elective   |                                 | 3  |
| Credits  |                                 | 15 |

### Spring

|  |     |
|--|-----|
| International Studies 3000-4000 Course | 3   |
| International Studies 3000-4000 Course | 3   |
| Elective                               | 3   |
| Elective                               | 3-4 |
| Elective                               | 3   |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| Credits |  | 15-16 |
|---------|--|-------|
|---------|--|-------|

### Senior

#### Fall

|  |   |
|--|---|
| International Studies 3000-4000 Course | 3 |
| Elective                               | 3 |
| Elective                               | 3 |
| Elective                               | 3 |
| Elective                               | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

| Credits |  | 15 |
|---------|--|----|
|---------|--|----|

### Spring

|  |                    |   |
|--|--------------------|---|
| INST 4990                              | SENIOR E-PORTFOLIO | 0 |
| International Studies 3000-4000 Course |                    | 3 |
| Elective                               |                    | 3 |
| Elective                               |                    | 3 |
| Elective                               |                    | 3 |
| Elective                               |                    | 3 |

\*International Studies electives are selected in coordination with an academic advisor.

|          |   |
|----------|---|
| Elective | 1 |
|----------|---|

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

| Credits |  | 16 |
|---------|--|----|
|---------|--|----|

| Total Credits |  | 120-122 |
|---------------|--|---------|
|---------------|--|---------|

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://>

[www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php](http://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php)

Transfer credit or placement exam scores may change suggested plan of study.

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Area Studies Concentration

### International Studies, Bachelor of Arts with a Concentration in Area Studies Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS -34 Hours Required</b>  |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>International Studies Major - 55-65 Hours Required</b>   |   |           |
| <b>Required Coursework</b>  |   | <b>12</b> |

|  |  |       |
|--|--|-------|
| INST 2130  | GLOBAL CHALLENGES (**)   |       |
| INST 4140  | TOPICS IN INTERNATIONAL STUDIES (^)                            |       |
| INST 4990  | SENIOR E-PORTFOLIO (Required in last semester)                 |       |
| GEOG 1000  | WORLD REGIONAL GEOGRAPHY (**)                                  |       |
| PSCI 2210  | INTRODUCTION TO INTERNATIONAL RELATIONS (**)                   |       |
| Select two classes from the following  |  | 6     |
| ANTH 1050  | INTRODUCTION TO ANTHROPOLOGY (**)                              |       |
| ANTH 4210  | CULTURAL ANTHROPOLOGY  |       |
| ART 1040   | GLOBAL INDIGENOUS ART (**)                                     |       |
| BLST/PSCI 2130   | AFRICAN POLITICS (**)  |       |
| BSAD 2700  | GLOBALIZATION OF BUSINESS ENTERPRISE (**)                      |       |
| CMST 2010  | INTERPERSONAL COMMUNICATION (**)                               |       |
| CMST 2300  | INTERGROUP DIALOGUE (**)                                       |       |
| CMST 4570  | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (** ^)        |       |
| CYBR 1100  | INTRODUCTION TO INFORMATION SECURITY (**)                      |       |
| ECON 1200  | SURVEY OF ECONOMICS (**)                                       |       |
| ECON 2200  | PRINCIPLES OF ECONOMICS (MICRO) (**)                           |       |
| ECON 2220  | PRINCIPLES OF ECONOMICS (MACRO) (**)                           |       |
| ENGL 2510  | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (**)       |       |
| ENGL 2520  | GLOBAL EXPLORATIONS: THE MODERN WORLD                          |       |
| HIST/LLS 2480  | HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT (**)      |       |
| HIST 2810  | HISTORY OF CHINA: FROM THE MANCHU CONQUEST TO THE PRESENT (**) |       |
| HIST 2820  | JAPAN: FROM WARRING STATES TO THE MODERN DAY (**)              |       |
| HIST 2920  | HISTORY OF MODERN AFRICA                                       |       |
| INST 1050  | INTRODUCTION TO GLOBAL MIGRATIONS                              |       |
| LLS 1000   | LATIN AMERICA: AN INTRODUCTION (**)                            |       |
| LLS/MUS 2810   | MUSIC IN LATIN AMERICAN CULTURE (**)                           |       |
| PHIL 2040  | INTRODUCTION TO EAST ASIAN PHILOSOPHY (**)                     |       |
| PSCI 2500  | INTRODUCTION TO COMPARATIVE POLITICS (**)                      |       |
| RELI 1010  | RELIGIONS OF THE WORLD (**)                                    |       |
| RELI 2020  | RELIGION AND HUMAN RIGHTS (**)                                 |       |
| RELI/HIST/SOC 2190   | THE MODERN MIDDLE EAST   |       |
| RELI 2200  | GLOBAL RELIGIOUS ETHICS: THE BASICS                            |       |
| SUST 1000  | INTRODUCTION TO SUSTAINABILITY (**)                            |       |
| WGST/PSCI 3230   | GENDER AND GLOBAL POLITICS (**)                                |       |
| 3000-4000 Level coursework in a selected area/region to be determined in consultation with advisor |  | 15    |
| Coursework on selected area/region must come from at least two different departments               |  |       |
| Area Studies - World Language Requirement  |  | 22-32 |

At a minimum, majors who choose this concentration must complete the equivalent of three years of one university-level world language (levels 1110, 1120, 2110, 2120, followed by at least two 3000/4000 level courses in the same language) OR may complete two-years worth (levels 1110-2120) of world language coursework in two different languages, one corresponding with the area chosen for this concentration. The BA degree World Language requirement is satisfied with the INST major.

#### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### Bachelor of Arts Language Requirement

See INST major

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## International Studies, Bachelor of Arts with a Concentration in Area Studies Four Year Plan

### Freshman

| Fall  |  | Credits |
|---|--|---------|
| ENGL 1150   | ENGLISH COMPOSITION I  | 3       |
| INST 2130   | GLOBAL CHALLENGES  | 3       |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH SUPPORT | 3-4     |
| World Language 1110   |  | 5       |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |         |

**Credits 14-15**

### Spring

|                           |  |   |
|---------------------------|--|---|
| ENGL 1160                 | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3 |
| GEOG 1000                 | WORLD REGIONAL GEOGRAPHY                             | 3 |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3 |
| World Language 1120       |  | 5 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 14**

### Sophomore

#### Fall

|  |   |   |
|--|---|---|
| PSCI 2210  | INTRODUCTION TO INTERNATIONAL RELATIONS | 3 |
| INST Requirement   |   | 3 |
| World Language 2110  |   | 3 |
| General Education Course or Elective   |   | 4 |
| Elective   |   | 3 |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |   |   |

**Credits 16**

#### Spring

|  |  |   |
|--|--|---|
| INST Requirement   |  | 3 |
| World Language 2120  |  | 3 |
| General Education Course or Elective   |  | 3 |
| General Education Course or Elective   |  | 3 |
| Elective   |  | 3 |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |  |   |

**Credits 15**

### Junior

#### Fall

|  |                                 |   |
|--|---------------------------------|---|
| INST 4140  | TOPICS IN INTERNATIONAL STUDIES | 3 |
| International Studies 3000-4000 Course   |                                 | 3 |
| World Language 3030 or other approved WLL course from the 3000-4000 level.   |                                 | 3 |
| Elective   |                                 | 3 |
| Elective   |                                 | 3 |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |                                 |   |

**Credits 15**

#### Spring

|  |  |   |
|--|--|---|
| International Studies 3000-4000 Course                                     |  | 3 |
| International Studies 3000-4000 Course                                     |  | 3 |
| World Language 3040 or other approved WLL course from the 3000-4000 level. |  | 3 |
| Elective   |  | 3 |
| Elective   |  | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| Credits  |                    | 15      |
|--|--------------------|---------|
| <b>Senior</b>  |                    |         |
| <b>Fall</b>  |                    |         |
| International Studies 3000-4000 Course   |                    | 3       |
| Elective   |                    | 3       |
| Elective   |                    | 3       |
| Elective   |                    | 3       |
| Elective   |                    | 3       |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |                    |         |
| Credits  |                    | 15      |
| <b>Spring</b>  |                    |         |
| INST 4990  | SENIOR E-PORTFOLIO | 0       |
| International Studies 3000-4000 Course   |                    | 3       |
| Elective   |                    | 3       |
| Elective   |                    | 3       |
| Elective   |                    | 3       |
| Elective   |                    | 3       |
| Elective   |                    | 3       |
| Elective   |                    | 1       |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.   |                    |         |
| Credits  |                    | 16      |
| Total Credits  |                    | 120-121 |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career

advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Global Strategic Studies Concentration

### International Studies, Bachelor of Arts with a Concentration in Global Strategic Studies

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>International Studies Major with a Concentration in Global Strategic Studies - 49 Hours Required</b>   |   |           |
| <b>Required Coursework</b>  |   | <b>12</b> |
| INST 2130   | GLOBAL CHALLENGES (**)                                  |           |
| INST 4140   | TOPICS IN INTERNATIONAL STUDIES (^)                     |           |
| INST 4990   | SENIOR E-PORTFOLIO (^ Required in last semester)        |           |
| GEOG 1000   | WORLD REGIONAL GEOGRAPHY (**)                           |           |
| PSCI 2210   | INTRODUCTION TO INTERNATIONAL RELATIONS (**)            |           |



**Select two of the following classes 6**

|                    |  |
|--------------------|--|
| ANTH 1050          | INTRODUCTION TO ANTHROPOLOGY (**)                              |
| ANTH 4210          | CULTURAL ANTHROPOLOGY  |
| ART 1040           | GLOBAL INDIGENOUS ART (**)                                     |
| BLST/PSCI 2130     | AFRICAN POLITICS (**)  |
| BSAD 2700          | GLOBALIZATION OF BUSINESS ENTERPRISE (**)                      |
| CMST 2010          | INTERPERSONAL COMMUNICATION (**)                               |
| CMST 2300          | INTERGROUP DIALOGUE (**)                                       |
| CMST 4570          | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (** ^)        |
| CYBR 1100          | INTRODUCTION TO INFORMATION SECURITY (**)                      |
| ECON 1200          | SURVEY OF ECONOMICS (**)                                       |
| ECON 2200          | PRINCIPLES OF ECONOMICS (MICRO) (**)                           |
| ECON 2220          | PRINCIPLES OF ECONOMICS (MACRO) (**)                           |
| ENGL 2510          | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (**)       |
| ENGL 2520          | GLOBAL EXPLORATIONS: THE MODERN WORLD (**)                     |
| HIST/LLS 2480      | HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT (**)      |
| HIST 2720          | RUSSIA: FROM THE CRIMEAN WAR TO THE PRESENT (**)               |
| HIST 2810          | HISTORY OF CHINA: FROM THE MANCHU CONQUEST TO THE PRESENT (**) |
| HIST 2820          | JAPAN: FROM WARRING STATES TO THE MODERN DAY (**)              |
| HIST 2920          | HISTORY OF MODERN AFRICA                                       |
| INST 1050          | INTRODUCTION TO GLOBAL MIGRATIONS                              |
| LLS 1000           | LATIN AMERICA: AN INTRODUCTION (**)                            |
| LLS/MUS 2810       | MUSIC IN LATIN AMERICAN CULTURE (**)                           |
| PHIL 2040          | INTRODUCTION TO EAST ASIAN PHILOSOPHY (**)                     |
| PSCI 2500          | INTRODUCTION TO COMPARATIVE POLITICS (**)                      |
| RELI 1010          | RELIGIONS OF THE WORLD (**)                                    |
| RELI 2020          | RELIGION AND HUMAN RIGHTS (**)                                 |
| RELI/HIST/SOC 2190 | THE MODERN MIDDLE EAST (**)                                    |
| RELI 2200          | GLOBAL RELIGIOUS ETHICS: THE BASICS                            |
| SUST 1000          | INTRODUCTION TO SUSTAINABILITY (**)                            |
| WGST/PSCI 3230     | GENDER AND GLOBAL POLITICS (**)                                |

**GLOBAL STRATEGIC STUDIES COURSES: 15**

Select five of the following (must come from at least two different departments)

|           |   |
|-----------|---|
| CRCJ 4750 | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^) |
| CRCJ 4760 | TERRORISM (** ^)                                      |
| CRCJ 4790 | CYBER & COMPUTER CRIMES (^)                           |
| GEOG 4130 | POLITICAL GEOGRAPHY                                   |
| GEOG 4350 | GLOBAL CLIMATE CHANGE (^)                             |

|           |  |
|-----------|--|
| GEOG 4550 | GEOGRAPHY OF THE WORLD ECONOMY (^)                               |
| HIST 4360 | THE U.S. IN THE COLD WAR (^)                                     |
| HIST 4460 | AMERICAN IMMIGRATION HISTORY (^)                                 |
| HIST 4720 | THE HOLOCAUST (^)  |
| HIST 4740 | COMPARATIVE GENOCIDE (^)   |
| HIST 4800 | U.S. AND THE MIDDLE EAST (^)                                     |
| HIST 4910 | TOPICS IN HISTORY (^ AMERICAN DIPLOMATIC HISTORY)                |
| PSCI 3210 | GEOPOLITICS OF CENTRAL ASIA AND SOUTH ASIA (^)                   |
| PSCI 3220 | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING (^)                  |
| PSCI 3240 | THE POLITICS AND PRACTICE OF HUMAN RIGHTS (^)                    |
| PSCI 3250 | GLOBAL SECURITY ISSUES (^)                                       |
| PSCI 3260 | UNITED STATES FOREIGN POLICY (^)                                 |
| PSCI 4200 | INTERNATIONAL RELATIONS OF EAST ASIA (^)                         |
| PSCI 4210 | INTERNATIONAL RELATIONS OF THE MIDDLE EAST (** ^)                |
| PSCI 4240 | INTERNATIONAL CONFLICT RESOLUTION (** ^)                         |
| PSCI 4250 | INTELLIGENCE AND NATIONAL SECURITY (^)                           |
| PSCI 4260 | INTERNATIONAL LAW (^)  |
| PSCI 4270 | GLOBAL ENVIRONMENTAL POLITICS (^)                                |
| PSCI 4280 | INTERNATIONAL RELATIONS OF LATIN AMERICA (** ^)                  |
| PSCI 4370 | GENERALS AND POLITICIANS: CIVIL-MILITARY RELATIONS (** ^)        |
| PSCI 4550 | POLITICAL VIOLENCE, INSURGENCY, AND TERRORISM (^)                |
| RELI 4220 | VIOLENT CONFLICTS, PEACEBUILDING, AND THE ETHICS OF INTERVENTION |
| RELI 4250 | WAR, RELIGION, AND HUMAN RIGHTS                                  |
| RELI 4700 | RELIGION, FILM, AND VIOLENCE                                     |

**Global Strategic Studies - World Language Requirement 16**

The International Studies major requires two years of one world language or the equivalent of levels 1110-2120. The BA World Language requirement is also satisfied with this major.

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement**

See Major

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## International Studies, Bachelor of Arts with a Concentration in Global Strategic Studies Four Year Plan

**Freshman**

|              |                               | Credits |
|--------------|-------------------------------|---------|
| <b>Fall</b>  |                               |         |
| ENGL 1150    | ENGLISH COMPOSITION I         | 3       |
| INST 2130    | GLOBAL CHALLENGES             | 3       |
| MATH 1300    | COLLEGE ALGEBRA WITH SUPPORT  | 3-4     |
| or MATH 1120 | or INTRODUCTION TO            |         |
| or MATH 1130 | MATHEMATICAL AND              |         |
| or MATH 1140 | COMPUTATIONAL THINKING        |         |
|              | or QUANTITATIVE LITERACY      |         |
|              | or QUANTITATIVE REASONING FOR |         |
|              | HEALTHCARE PROFESSIONALS      |         |

|   |   |
|---|---|
| World Language 1110   | 5 |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |

**Credits 14-15**

**Spring**

|              |   |   |
|--------------|---|---|
| ENGL 1160    | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| GEOG 1000    | WORLD REGIONAL GEOGRAPHY                  | 3 |
| CMST 1110    | PUBLIC SPEAKING FUNDS                     | 3 |
| or CMST 2120 | or ARGUMENTATION AND DEBATE               |   |

|  |   |
|--|---|
| World Language 1120  | 5 |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |

**Credits 14**

**Sophomore**

|             |   |   |
|-------------|---|---|
| <b>Fall</b> |   |   |
| PSCI 2210   | INTRODUCTION TO INTERNATIONAL RELATIONS | 3 |

|                                      |   |
|--------------------------------------|---|
| INST Requirement                     | 3 |
| World Language 2110                  | 3 |
| General Education Course or Elective | 3 |
| Elective                             | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|                                      |   |
|--------------------------------------|---|
| INST Requirement                     | 3 |
| World Language 2120                  | 3 |
| General Education Course or Elective | 3 |
| General Education Course or Elective | 3 |

|          |   |
|----------|---|
| Elective | 3 |
|----------|---|

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Junior****Fall**

|   |                                 |   |
|---|---------------------------------|---|
| INST 4140                                 | TOPICS IN INTERNATIONAL STUDIES | 3 |
| Global Strategic Studies 3000-4000 Course |                                 | 3 |
| Elective                                  |                                 | 3 |
| Elective                                  |                                 | 3 |
| Elective                                  |                                 | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15**

**Spring**

|   |   |
|---|---|
| Global Strategic Studies 3000-4000 Course | 3 |
| Global Strategic Studies 3000-4000 Course | 3 |
| Elective                                  | 3 |
| Elective                                  | 3 |
| Elective                                  | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Senior****Fall**

|   |   |
|---|---|
| Global Strategic Studies 3000-4000 Course | 3 |
| Elective                                  | 3 |
| Elective                                  | 3 |
| Elective                                  | 3 |
| Elective                                  | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|   |                    |     |
|---|--------------------|-----|
| INST 4990                                 | SENIOR E-PORTFOLIO | 0   |
| Global Strategic Studies 3000-4000 Course |                    | 3   |
| Elective                                  |                    | 3   |
| Elective                                  |                    | 3   |
| Elective                                  |                    | 3   |
| Elective                                  |                    | 3   |
| Elective                                  |                    | 0-1 |

Complete your final advising check before graduation.  
Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

|                      |                |
|----------------------|----------------|
| <b>Credits</b>       | <b>15-16</b>   |
| <b>Total Credits</b> | <b>118-120</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, or World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## International Management and Business Leadership Concentration

### International Studies, Bachelor of Arts with a Concentration in International Management and Business Leadership Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |

|   |  |
|---|--|
| or CMST 2120  | ARGUMENTATION AND DEBATE                                 |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING  |
| or MATH 1130  | QUANTITATIVE LITERACY                                    |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS      |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                             |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                          |
| STAT 1530   | ELEMENTARY STATISTICS                                    |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge</b>   |  |
| <b>13</b>   |  |
| Social Science – 3 hrs.   |  |
| Humanities – 3 hrs.   |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility</b>   |  |
| <b>6</b>  |  |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>International Studies Major - 55 Hours Required</b>  |  |
| <b>Required Coursework</b>  |  |
| <b>18</b>   |  |
| INST 2130   | GLOBAL CHALLENGES (**)                                   |
| INST 4140   | TOPICS IN INTERNATIONAL STUDIES (^)                      |
| INST 4990   | SENIOR E-PORTFOLIO (Required in last semester)           |
| GEOG 1000   | WORLD REGIONAL GEOGRAPHY (**)                            |
| PSCI 2210   | INTRODUCTION TO INTERNATIONAL RELATIONS (**)             |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                   |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                   |
| <b>Select two classes from the following</b>  |  |
| <b>6</b>  |  |
| ACCT 2000   | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS (**)           |
| ANTH 1050   | INTRODUCTION TO ANTHROPOLOGY (**)                        |
| ANTH 4210   | CULTURAL ANTHROPOLOGY                                    |
| ART 1040  | GLOBAL INDIGENOUS ART (**)                               |
| BLST/PSCI 2130  | AFRICAN POLITICS (**)                                    |
| BSAD 2700   | GLOBALIZATION OF BUSINESS ENTERPRISE (**)                |
| CMST 2010   | INTERPERSONAL COMMUNICATION (**)                         |
| CMST 2300   | INTERGROUP DIALOGUE (**)                                 |
| CMST 4570   | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (** ^)  |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)                |
| ECON 1200   | SURVEY OF ECONOMICS (**)                                 |
| ENGL 2510   | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (**) |

|  |  |               |
|--|--|---------------|
| ENGL 2520  | GLOBAL EXPLORATIONS: THE MODERN WORLD                          |               |
| HIST/LLS 2480  | HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT (**)      |               |
| HIST 2720  | RUSSIA: FROM THE CRIMEAN WAR TO THE PRESENT (**)               |               |
| HIST 2810  | HISTORY OF CHINA: FROM THE MANCHU CONQUEST TO THE PRESENT (**) |               |
| HIST 2820  | JAPAN: FROM WARRING STATES TO THE MODERN DAY (**)              |               |
| HIST 2920  | HISTORY OF MODERN AFRICA                                       |               |
| INST 1050  | INTRODUCTION TO GLOBAL MIGRATIONS                              |               |
| LLS 1000   | LATIN AMERICA: AN INTRODUCTION (**)                            |               |
| LLS/MUS 2810   | MUSIC IN LATIN AMERICAN CULTURE (**)                           |               |
| PHIL 2040  | INTRODUCTION TO EAST ASIAN PHILOSOPHY (**)                     |               |
| PSCI 2500  | INTRODUCTION TO COMPARATIVE POLITICS (**)                      |               |
| RELI 1010  | RELIGIONS OF THE WORLD (**)                                    |               |
| RELI 2020  | RELIGION AND HUMAN RIGHTS (**)                                 |               |
| RELI/HIST/SOC 2190   | THE MODERN MIDDLE EAST (**)                                    |               |
| RELI 2200  | GLOBAL RELIGIOUS ETHICS: THE BASICS                            |               |
| SUST 1000  | INTRODUCTION TO SUSTAINABILITY (**)                            |               |
| WGST/PSCI 3230   | GENDER AND GLOBAL POLITICS (**)                                |               |
| <b>3000-4000 Level coursework in Business to be determined in consultation with advisor</b>  |  | <b>15</b>     |
| <b>International Management and Business Leadership - World Language Requirement</b>   |  | <b>16</b>     |
| The International Studies major requires two years of one world language or the equivalent of levels 1110-2120. The BA World Language requirement is also satisfied with this major. |  |               |
| <b>College Breadth (choose one option)</b>   |  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |  |               |
| Option 2: Additional General Education Requirements - 18+ hours  |  |               |
| Additional Quantitative Literacy - 3 hours   |  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |  |               |
| Additional Humanities Gen. Ed. another 3rd Discipline - 3 hours  |  |               |
| HIST 1000 and HIST 1010 - 6 hours  |  |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |  |               |
| <b>Bachelor of Arts Language Requirement</b>   |  | <b>0</b>      |
| See major.   |  |               |
| <b>ELECTIVES</b>   |  |               |
| Elective hours as required to reach a total of 120 hours   |  |               |

## International Studies, Bachelor of Arts with a Concentration in International Management and Business Leadership Four Year Plan

### Freshman

| Fall   |  | Credits |
|--|--|---------|
| ENGL 1150  | ENGLISH COMPOSITION I                              | 3       |
| INST 2130  | GLOBAL CHALLENGES                                  | 3       |
| MATH 1300<br>or MATH 1320  | COLLEGE ALGEBRA WITH SUPPORT<br>or COLLEGE ALGEBRA | 3-4     |
| World Language 1110  |  | 5       |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stelling. |  |         |

| Credits  |   | 14-15 |
|--|---|-------|
| Spring   |   |       |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3     |
| GEOG 1000  | WORLD REGIONAL GEOGRAPHY                  | 3     |
| World Language 1120  |   | 5     |
| General Education Course or Elective   |   | 3     |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |       |

| Credits  |  | 14 |
|--|--|----|
| Sophomore  |  |    |
| Fall   |  |    |
| PSCI 2210  | INTRODUCTION TO INTERNATIONAL RELATIONS              | 3  |
| ECON 2200  | PRINCIPLES OF ECONOMICS (MICRO)                      | 3  |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3  |
| World Language 2110  |  | 3  |
| General Education Course or Elective   |  | 3  |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |  |    |

| Credits                              |                                     | 15  |
|--------------------------------------|-------------------------------------|-----|
| Spring                               |                                     |     |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) (*) | 3   |
| World Language 2120                  |                                     | 3   |
| General Education Course or Elective |                                     | 3   |
| General Education Course or Elective |                                     | 3   |
| General Education Course or Elective |                                     | 3-4 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

| Credits  |                                 | 15-16 |
|--|---------------------------------|-------|
| <b>Junior</b>  |                                 |       |
| <b>Fall</b>  |                                 |       |
| INST 4140  | TOPICS IN INTERNATIONAL STUDIES | 3     |
| INST Requirement   |                                 | 3     |
| International Studies IMBL 3000-4000 Course  |                                 | 3     |
| Elective   |                                 | 3     |
| Elective   |                                 | 3     |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |                                 |       |

| Credits  |  | 15 |
|--|--|----|
| <b>Spring</b>  |  |    |
| INST Requirement   |  | 3  |
| International Studies IMBL 3000-4000 Course  |  | 3  |
| International Studies IMBL 3000-4000 Course  |  | 3  |
| Elective   |  | 3  |
| Elective   |  | 3  |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |  |    |

| Credits  |  | 15 |
|--|--|----|
| <b>Senior</b>  |  |    |
| <b>Fall</b>  |  |    |
| International Studies IMBL 3000-4000 Course  |  | 3  |
| Elective   |  | 3  |
| Elective   |  | 3  |
| Elective   |  | 3  |
| Elective   |  | 3  |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |  |    |

| Credits  |                    | 15 |
|--|--------------------|----|
| <b>Spring</b>  |                    |    |
| INST 4990  | SENIOR E-PORTFOLIO | 0  |
| International Studies IMBL 3000-4000 Course  |                    | 3  |
| Elective   |                    | 3  |
| Elective   |                    | 3  |
| Elective   |                    | 3  |
| Elective   |                    | 3  |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |                    |    |

| Credits              |  | 15             |
|----------------------|--|----------------|
| <b>Total Credits</b> |  | <b>118-120</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## International Studies Minor

### International Studies, Minor Requirements

The International Studies minor will open up a world of opportunities. Research confirms that employers today look for people who understand diversity, can connect multidisciplinary perspectives, and think critically to create transnational solutions to complex problems. The International Studies minor demonstrates that you are ready for work at a 21st-century organization.

| Code  | Title                               | Credits   |
|---|-------------------------------------|-----------|
| <b>Required Course</b>  |                                     | <b>3</b>  |
| INST 2130   | GLOBAL CHALLENGES                   |           |
| <b>Additional Courses</b>   |                                     | <b>15</b> |
| Select an additional 15 credits of approved coursework—12 credits of which must be at the 3000-4000 level from at least two different disciplines. Several approved courses are listed below, and students may speak with an International Studies advisor to inquire about additional courses that may apply to the minor: |                                     |           |
| CMST 2010   | INTERPERSONAL COMMUNICATION         |           |
| CMST 4510   | PERSUASION AND SOCIAL INFLUENCE     |           |
| CMST 4530   | INTERCULTURAL COMMUNICATION & POWER |           |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO)     |           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO)     |           |
| ECON/GEOG 3130  | ECONOMIC GEOGRAPHY                  |           |
| ECON 4610   | INTERNATIONAL TRADE                 |           |
| ECON 4660   | INTERNATIONAL ECONOMIC DEVELOPMENT  |           |

|           |   |
|-----------|---|
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY                    |
| GEOG 3930 | POLITICAL GEOGRAPHY                         |
| HIST 4740 | COMPARATIVE GENOCIDE                        |
| ISQA 3420 | MANAGING IN A DIGITAL WORLD                 |
| MKT 3380  | INTERNATIONAL MARKETING                     |
| PSCI 2210 | INTRODUCTION TO INTERNATIONAL RELATIONS     |
| PSCI 3220 | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING |
| PSCI 4240 | INTERNATIONAL CONFLICT RESOLUTION           |
| PSCI 4290 | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY  |

|           |  |
|-----------|--|
| RELI 4400 | WOMEN IN ISLAM (^)                                   |
| RELI 4420 | MUSLIMS IN AMERICA (^)                               |
| HIST 4730 | ISRAEL AND PALESTINE (^)                             |
| HIST 4800 | U.S. AND THE MIDDLE EAST                             |
| PSCI 3700 | GOVERNMENT AND POLITICS OF THE MIDDLE EAST (^)       |
| PSCI 4210 | INTERNATIONAL RELATIONS OF THE MIDDLE EAST (^)       |
| PSCI 4620 | ISLAM AND POLITICS (^)                               |
| PSCI 4710 | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION |

**Total Credits** **18**

<sup>1</sup> Note: RELI 3500 when taught as an Islamic Studies topic.

Other courses may be acceptable toward the Islamic Studies minor, as approved by the Islamic Studies director.

## Islamic Studies Minor

The Islamic Studies Program is an interdisciplinary program that is focused on Islam and Muslim societies across the globe.

The program aims to equip undergraduate students with knowledge on Muslim states and societies through its minor program. To this end, the program continuously increases the number of courses at UNO about Islam and Muslims.

Given the importance of Islam in world politics and the global economy, our minor program is beneficial for those students who plan to pursue a career in business, education, history, anthropology, international studies, religious studies, communication, political science, social work, public administration, art and art history, medicine, criminal justice, sociology and other fields.

## Other Information

All coursework taken for the Islamic Studies minor must be completed with a grade of "C" or better.

## Contact

Paul A. Williams, Director of Islamic Studies Program  
205 ASH  
pwilliams@unomaha.edu  
402.554.2628

**Website (<http://www.unomaha.edu/college-of-arts-and-sciences/islamic-studies/>)**

## Requirements

A minor in Islamic Studies requires a total of eighteen (18) hours with a minimum of 12 hours at 3000 level or above.

| Code  | Title  | Credits  |
|---|--|----------|
| ^Course requires pre-requisite(s)   |  |          |
| <b>Required Courses</b>   |  | <b>6</b> |
| HIST/RELI/SOC 2190  | THE MODERN MIDDLE EAST                         |          |
| RELI 3200   | ISLAM AND MUSLIMS                              |          |
| <b>Select one of the following:</b>   |  | <b>3</b> |
| PSCI 3700   | GOVERNMENT AND POLITICS OF THE MIDDLE EAST (^) |          |
| PSCI 4210   | INTERNATIONAL RELATIONS OF THE MIDDLE EAST (^) |          |
| PSCI 4620   | ISLAM AND POLITICS (^)                         |          |
| <b>Select nine credits from the following list of approved Islamic Studies electives:</b> |  | <b>9</b> |
| RELI 3500   | TOPICS IN RELIGIOUS STUDIES <sup>1</sup>       |          |

## Latino/Latin American Studies (LLS)

The Latino/Latin American Studies (LLS) Major is an interdisciplinary program housed in the Office of Latino/Latin American Studies (<https://www.unomaha.edu/college-of-arts-and-sciences/ollas/>) (OLLAS) that prepares students to work, live, and thrive in a culturally and demographically changing environment in an increasingly multicultural and transnational United States. The LLS Major provides students with a broad foundation for professional careers in public service, non-profit and community organizations, education, law, health, counseling, and business, among others. The LLS Major offers student research opportunities and internship opportunities which help prepare them for their chosen careers and/or professional and graduate school.

The bookend of the LLS curriculum is the Senior Capstone. In this course, students need to complete an internship in a relevant community organization, in any of the areas of the Office of Latino/Latin American Studies, or as a research assistant for an OLLAS faculty member. Students also will develop a portfolio that will prepare them to enter the labor market with an in-depth knowledge of the Latino experience in the Midwest and the United States and in Latin America.

The LLS curriculum includes courses from programs such as World Languages (Spanish), Political Sciences, History, International Studies, and Sociology/Anthropology making it very simple for students to obtain double majors with these and/or other programs through strategic overlapping of course requirements for both programs. Examples of programs and the maximum amount of allowable credit overlapping are below. Students interested in these, or other program combinations will need to work closely with their programmatic advisor(s).

- Double Major in LLS and International Studies. Students enrolled in the Area Studies Concentration can count up to 18 LLS credits in approved coursework toward the 33 credits required for the International Studies major.
- Double Major in LLS and Sociology: Students can count between 9 and 12 LLS credits in approved coursework towards the 33 credits required credits for the Sociology major.
- Double Major in LLS and Political Science: Students can count between 9 and 12 LLS credits in approved coursework towards the 33 credits required for the Political Science major.
- Major in LLS and World Languages & Literature (Spanish concentration): Students can count up to 12 LLS credits in approved coursework towards the 30 credits required for the World Languages



& Literature major with a Spanish concentration or with a Spanish for Health Sciences concentration.

## Fast Track Program

The Office of Latino and Latin American Studies has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program.

### Program Specifics:

- This program is available for undergraduate students pursuing Bachelor of Arts in Latino and Latin American Studies desiring to pursue a Master of Arts in Critical and Creative Thinking.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit them to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
- Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.
  - Students seeking this option should work with their advisor to select appropriate graduate level courses.

## The Office of Latino/Latin American Studies

The Office of Latino/Latin American Studies (<https://www.unomaha.edu/college-of-arts-and-sciences/ollas/>) (OLLAS) is a bilingual and interdisciplinary academic program established in 2003. OLLAS is the only specialized unit within the University of Nebraska System focused on education, research, and community engagement of Latinos in the Midwest and on the interconnections between Nebraska, the Midwest Region, and Latin America. OLLAS mission is to advance understanding of Latin American and Latino cultures and societies through a commitment to social inclusion, interdisciplinary student-centered education, community-engaged research, cultural programming, and the forging of collaborative partnerships with local, state, national, and international organizations. Our main goals are to 1) create learning opportunities for students and communities beyond the classroom and across borders, 2) develop policy-oriented and community-relevant research, and 3) establish strategic and egalitarian community partnerships to strengthen our capacity to address local and global concerns. In accomplishing these goals, we seek to assist Nebraska and the Great Plains region, as well as the growing Latino population, in reaching a shared prosperous present and future in a context of cultural understanding, respect of differences, and the promotion of human rights.

LLS majors and minors are invited to join our OLLAS Learning Community, volunteer in our multiple community events, and develop networks and collaborations with other students, with close to thirty OLLAS faculty (<https://www.unomaha.edu/college-of-arts-and-sciences/ollas/about->

[us/directory/](#)) from many UNO departments and from UNMC, and with community organizations and their leaders.

Although the Office of Latino/Latin American Studies (OLLAS) does not yet offer a graduate degree, it does offer a number of graduate courses. Students pursuing graduate programs in other colleges and departments are encouraged to concentrate on Latinos or Latin America and take advantage of Latino/Latin American Studies course offerings.

## Contact

Office of Latino/Latin American Studies (OLLAS)  
102 ASH  
402.554.3835

### Email

[unoollas@unomaha.edu](mailto:unoollas@unomaha.edu)

**Website (<http://www.unomaha.edu/college-of-arts-and-sciences/ollas/>)**

## Degrees Offered

- Latino/Latin American Studies, Bachelor of Arts (p. 197)

## Minors Offered

- Chicano/Latino Studies Minor (p. 200)

Our major uses an interdisciplinary approach to prepare our students for multiple careers that require a cultural, historical, social, and political grounded knowledge of Latinos in the United States and the Latin American region. In an ever-changing world, our program prepares critical thinkers, researchers, and practitioners, ready to engage with the fastest-growing minority in the United States and with a world region of historical relevance to the nation.

Among other areas, our majors are well prepared to work in:

- Community-based non-profit organizations
- Private small business with interests in the Latino community
- Large companies in areas of diversity training and company/community relations
- Large companies with business interests in Latin America
- Large private foundations
- Schools
- Law offices
- Local, state, and federal government
- Hospitals

Our students are also well prepared to continue graduate and professional programs in the social sciences and the humanities, including sociology, political sciences, history, public health, social work, and law among others. In addition, when chosen as a complementary major, we provide an excellent set of tools to those pursuing careers in education, the arts, local and international business, diplomacy, medical sciences, technology design, and government to name a few.

# Latino/Latin American Studies, Bachelor of Arts

In the major in Latino/Latin American Studies (LLS) students learn about critical issues such as: urban segregation; education; health and socioeconomic disparities; environmental justice; political mobilization; human rights; migration; language shifts; and cultural creations both in Latin America and how these affect the Latino community in the United States.

The requirements of the LLS major are flexible, incorporating courses from programs such as world languages (Spanish), Political Sciences, History, International Studies, and Sociology/Anthropology to facilitate obtaining **double majors** with these and/or other programs.

To obtain a B.A. with a major in LLS, a student must fulfill university, college, and departmental requirements. All coursework taken for the LLS major must be completed with a grade of "C-" or better

The major requires a total of 30 credit hours. Not included in the 30 credit hours: at least 16 credit hours of Spanish or Portuguese (also fulfill Arts & Sciences language requirement). Students whose primary major is in a college other than Arts & Sciences must complete at least two semesters in Spanish or Portuguese. \*\*Native/heritage speakers of Spanish may be exempt from this requirement. Such students should contact the World Languages & Literature Department for correct placement to determine if additional coursework is necessary.

Residency requirement: No student may transfer into the major more than 9 credits. Students must complete at least 21 of the 30 credit hours at UNO.

## Latino/Latin American Studies, Bachelor of Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |

|   |   |
|---|---|
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>Latino/Latin American Studies Major - 30 Hours Required</b>  |   |
| <b>Required Coursework</b>  | <b>9</b>  |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION (**)                         |
| LLS 1020  | INTRODUCTION TO CHICANO/LATINO STUDIES (**)                 |
| INDS 4950   | INTERDISCIPLINARY STUDIES: CAPSTONE COURSE                  |
| <b>Select one research methods or statistics course approved by the OLLAS director/academic advisor</b>   | <b>3</b>  |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                       |
| CRCJ 2510   | RESEARCH METHODS (^)  |
| CRCJ/SOWK/PA 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| ECON 3300   | INTRODUCTION TO ECONOMETRICS (^)                            |
| ENGL 2410   | CRITICAL APPROACHES TO LITERATURE (^)                       |
| PHHB 4050   | INTRODUCTION TO RESEARCH IN PUBLIC HEALTH                   |
| HIST 2980   | HISTORICAL METHODOLOGY (^)                                  |
| SOC 2130  | SOCIAL STATISTICS (^)                                       |
| SOC 3510  | RESEARCH METHODS (^)  |
| PSCI 2000   | INTRODUCTION TO POLITICAL INQUIRY AND WRITING               |
| PSCI 3000   | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^)              |
| SOWK 4400   | RESEARCH METHODS IN SOCIAL WORK PRACTICE (^)                |
| <b>Select three 3-credit (LLS) Latino/Latin American Studies courses from List A Latina/o Studies and three 3-credit (LLS) Latino/Latin American Studies courses from List B Latin American Studies. No more than three courses can be from the same discipline</b> | <b>18</b>   |
| At least 18 hours of the major's 30 hours must be at the 3000-4000 level  |   |
| <b>List A: Latino Studies</b>   |   |
| LLS/PSCI 3140   | LATINO/-A POLITICS (**)                                     |
| LLS/SPAN 3250   | SURVEY OF LATIN AMERICAN FILM                               |
| LLS/PSCI 3510   | IMMIGRATION LAW AND LATINOS                                 |
| English   |   |
| ENGL 2490   | LATINO/A LITERATURE (**)                                    |
| ENGL 4230   | LATINO LITERATURE   |
| ENGL 4240   | TEACHING LATINO LITERATURE (**)                             |
| History   |   |
| HIST 4460   | AMERICAN IMMIGRATION HISTORY                                |
| Political Science   |   |
| PSCI/LLS 3510   | IMMIGRATION LAW AND LATINOS                                 |
| PSCI/LLS 3140   | LATINO/-A POLITICS (**)                                     |
| Sociology   |   |

|                                       |  |
|---------------------------------------|--|
| SOC 2800                              | MAJOR SOCIAL ISSUES (Immigration, Gender and Employment)                                   |
| SOC 3900                              | RACE AND ETHNIC RELATIONS IN THE U.S. (** When taught by OLLAS approved faculty member)    |
| Spanish                               |  |
| SPAN 3010<br>or SPAN 3020             | SPANISH FOR HERITAGE SPEAKERS I<br>SPANISH FOR HERITAGE SPEAKERS II                        |
| SPAN 4070                             | HISPANIC BILINGUALISM  |
| SPAN 4130                             | SPANISH IN THE UNITED STATES   |
| SPAN 4330                             | LINGUISTIC JUSTICE AND LATINO HEALTH   |
| Social Work                           |  |
| SOWK 4030                             | SOCIAL WORK WITH LATINOS   |
| Teacher Education                     |  |
| TED 2060                              | EQUITY, LANGUAGE, AND CULTURAL LITERACY (When taught by OLLAS approved faculty member)     |
| <b>List B: Latin American Studies</b> |  |
| LLS/HIST 2480                         | HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT (**)                                  |
| LLS/MUS 2810                          | MUSIC IN LATIN AMERICAN CULTURE (**)   |
| LLS/SPAN 3050                         | LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE |
| LLS/SPAN 3250                         | SURVEY OF LATIN AMERICAN FILM  |
| LLS/SPAN 3420                         | LATIN AMERICAN CIVILIZATION  |
| LLS/PSCI 3680                         | GOVERNMENT AND POLITICS OF LATIN AMERICA (**)  |
| LLS/GEOG 3070                         | GEOGRAPHY OF LATIN AMERICA   |
| LLS/SPAN 4140                         | INTRODUCTION TO LATIN AMERICAN FILM  |
| LLS/SPAN 4170                         | INTRODUCTION TO LATIN AMERICAN LITERATURES   |
| LLS/SPAN 4210                         | SPECIAL EXPLORATIONS IN LATIN AMERICAN FILM  |
| LLS/SPAN 4230                         | SPECIAL EXPLORATIONS IN LATIN AMERICAN LITERATURE  |
| LLS/SOC 4240                          | SOCIAL TRANSFORMATIONS IN LATIN AMERICA  |
| LLS/SOC 4250                          | RESEARCHING LATIN AMERICAN MIGRATIONS  |
| LLS/PSCI 4280                         | INTERNATIONAL RELATIONS OF LATIN AMERICA   |
| LLS/SPAN 4510                         | ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES               |
| LLS/BLST 4650/<br>HIST 4070           | SLAVERY AND RACE RELATIONS IN THE AMERICAS   |
| LLS/SOC 4780                          | URBAN LATIN AMERICA (**)   |
| LLS/INST 4950                         | LATIN AMERICAN STUDY ABROAD  |
| Anthropology                          |  |
| ANTH 4230                             | ETHNOMEDICINES OF THE AMERICAS   |
| Black Studies                         |  |
| BLST/LLS 4650/<br>HIST 4070           | SLAVERY AND RACE RELATIONS IN THE AMERICAS (**)  |
| Geography                             |  |
| GEOG/LLS 3070                         | GEOGRAPHY OF LATIN AMERICA   |
| History                               |  |

|   |  |
|---|--|
| HIST/LLS 2480   | HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT                         |
| HIST 4070/<br>LLS 4650/BLST<br>4650   | SLAVERY AND RACE RELATIONS IN THE AMERICAS (**)                              |
| Political Science   |  |
| PSCI/LLS 3680   | GOVERNMENT AND POLITICS OF LATIN AMERICA (**)                                |
| PSCI/LLS 4280   | INTERNATIONAL RELATIONS OF LATIN AMERICA (**)                                |
| Sociology   |  |
| SOC/LLS 4240  | SOCIAL TRANSFORMATIONS IN LATIN AMERICA (**)                                 |
| SOC/LLS 4250  | RESEARCHING LATIN AMERICAN MIGRATIONS (**)                                   |
| SOC/LLS 4780  | URBAN LATIN AMERICA (**)   |
| Spanish   |  |
| SPAN 3010<br>or SPAN 3020   | SPANISH FOR HERITAGE SPEAKERS I<br>SPANISH FOR HERITAGE SPEAKERS II          |
| SPAN/LLS 3250   | SURVEY OF LATIN AMERICAN FILM  |
| SPAN/ENVN 3310  | SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD             |
| SPAN 3420   | LATIN AMERICAN CIVILIZATION  |
| SPAN 4040   | ADVANCED COMPOSITION AND STYLISTICS  |
| SPAN/LLS 4140   | INTRODUCTION TO LATIN AMERICAN FILM  |
| SPAN 4150   | LITERATURE/CULTURE: CENTRAL AMERICA AND THE CARIBBEAN 1898-2000              |
| SPAN/LLS 4170   | INTRODUCTION TO LATIN AMERICAN LITERATURES                                   |
| SPAN/LLS 4230   | SPECIAL EXPLORATIONS IN LATIN AMERICAN LITERATURE                            |
| SPAN/LLS 4510   | ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES |
| <b>College Breadth (choose one option)</b>  |  |
| <b>15-30+</b>   |  |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours   |  |
| Option 2: Additional General Education Requirements - 18+ hours   |  |
| Additional quantitative literacy - 3 hours  |  |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours  |  |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |  |
| HIST 1000 and HIST 1010 - 6 hours   |  |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours  |  |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)   |  |
| <b>Bachelor of Arts Language Requirement</b>  |  |
| <b>16</b>   |  |
| SPAN, 1110, 1120, 2110, 2120. Note: 16 credit hours of Spanish or Portuguese (also fulfill Arts & Sciences language requirement). Students whose primary major is in a college other than Arts & Sciences must complete at least two semesters in Spanish or Portuguese. Native/heritage speakers of Spanish may be exempt from this requirement. |  |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Latino/Latin American Studies, Bachelor of Arts Four Year Plan

**Freshman**

| <b>Fall</b>   |   | <b>Credits</b> |
|---|---|----------------|
| ENGL 1150   | ENGLISH COMPOSITION I   | 3              |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR<br>HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH<br>SUPPORT | 3-4            |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION  | 3              |
| SPAN 1110   | ELEMENTARY SPANISH I  | 5              |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |                |
| <b>Credits</b>  |   | <b>14-15</b>   |

**Spring**

|  |  |           |
|--|--|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND<br>INFORMATION LITERACY | 3         |
| LLS 1020   | INTRODUCTION TO CHICANO/LATINO<br>STUDIES    | 3         |
| SPAN 1120  | ELEMENTARY SPANISH II                        | 5         |
| General Education Course or Elective   |  | 4         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |  |           |
| <b>Credits</b>   |  | <b>15</b> |

**Sophomore**

| <b>Fall</b>  |                        |           |
|--|------------------------|-----------|
| SPAN 2110  | INTERMEDIATE SPANISH I | 3         |
| General Education Course or Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                        |           |
| <b>Credits</b>   |                        | <b>15</b> |

| <b>Spring</b>                        |  |   |
|--------------------------------------|--|---|
| CMST 1110<br>or CMST 2120            | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3 |
| SPAN 2120                            | INTERMEDIATE SPANISH II                              | 3 |
| Elective                             |  | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

| <b>Credits</b>   |  | <b>15</b> |
|--|--|-----------|
| <b>Junior</b>  |  |           |
| <b>Fall</b>  |  |           |
| LLS Approved Major Course at 3000-4000 Level   |  | 3         |
| Approved Research Methods or Statistics Course   |  | 3         |
| General Education Course or Elective   |  | 3         |
| General Education Course or Elective   |  | 3         |
| Elective   |  | 3         |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |           |
| <b>Credits</b>   |  | <b>15</b> |

**Spring**

|  |  |     |
|--|--|-----|
| LLS Approved Major Course at 3000-4000 Level   |  | 3   |
| LLS Approved Major Course at 3000-4000 Level   |  | 3   |
| General Education Course or Elective   |  | 3-4 |
| Elective   |  | 3   |
| Elective   |  | 3   |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |  |     |

| <b>Credits</b>   |  | <b>15-16</b> |
|--|--|--------------|
| <b>Senior</b>  |  |              |
| <b>Fall</b>  |  |              |
| LLS Approved Major Course at 3000-4000 Level   |  | 3            |
| LLS Approved Major Course at 3000-4000 Level   |  | 3            |
| General Education Course or Elective   |  | 3            |
| General Education Course or Elective   |  | 3            |
| Elective   |  | 3            |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |  |              |

| <b>Credits</b>                               |   | <b>15</b> |
|--|---|-----------|
| <b>Spring</b>                                |   |           |
| INDS 4950                                    | INTERDISCIPLINARY STUDIES:<br>CAPSTONE COURSE | 3         |
| LLS Approved Major Course at 3000-4000 Level |   | 3         |
| Elective                                     |   | 3         |
| Elective                                     |   | 3         |
| Elective                                     |   | 3         |
| Elective                                     |   | 1         |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **16**

**Total Credits** **120-122**

### Language Requirement:

The LLS major requires 16 credit hours of Spanish or Portuguese. Since Portuguese is not offered at UNO, most students fulfill this requirement with Spanish coursework.

- Students starting from the beginning typically take SPAN 1110, 1120, 2110, and 2120.
- Students who have completed four years (Level IV) of high school Spanish are exempt from taking Spanish at UNO but do not earn credit. They may take the Spanish Placement Exam to test into a higher level; if they complete the course they place into with a C- or better, they may be eligible for free retroactive credit.

### Native Speakers:

Native speakers of Spanish or Portuguese are exempt from the requirement but do not earn credit. Native Spanish speakers may take SPAN 3010 – Spanish for Heritage Speakers, and upon passing, may request up to 16 hours of retroactive credit.

### Note:

Students who meet the requirement through high school or native fluency but do not take any Spanish courses at UNO must make up the 16 credit hours with other approved coursework. Please consult your advisor for options.

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Chicano/Latino Studies Minor

### Chicano(a)/Latino(a) Studies Minor Requirements

The OLLAS minor is a perfect complement to a wide variety of majors across campus, such as Public Health, Medical Humanities, Business and Finance, Social Work, Criminal Justice, Journalism, Education, and Fine Arts, among others, where the work of the discipline intersects with the growing presence and importance of Latinos (Mexicanos, Chicanos, Central Americans, and South Americans) in the United States and our local communities.

Residency requirement: No student may transfer into the minor more than 6 credits. Students must complete at least 12 of the 18 credit hours at UNO.

A total of 18 credit hours to include:

| Code                                    | Title                                  | Credits   |
|---|--|-----------|
| <b>Required Course</b>                  |  | <b>3</b>  |
| LLS 1020                                | INTRODUCTION TO CHICANO/LATINO STUDIES |           |
| <b>Select from LLS approved courses</b> |  | <b>15</b> |

### LLS approved courses:

An additional 15 hours of LLS approved courses from the list below. A maximum of 9 of the 15 hours may be taken from a single department. At least 12 of the 15 credit hours must be taken at the 3000 or 4000 level. Other courses relating to Latinos or Latin America may be accepted as LLS courses if approved by the OLLAS Director. All coursework taken for the CLS minor must be completed with a grade of "C-" or better.

At least four 3-credit (LLS) Latino/Latin American Studies courses need to be from List A Latina/o Studies and no more than one 3-credit (LLS) Latino/Latin American Studies courses from List B Latin American Studies. No more than three courses can be from the same discipline.

| Code                          | Title   | Credits |
|-------------------------------|---|---------|
| <b>List A: Latino Studies</b> |   |         |
| LLS/PSCI 3140                 | LATINO/-A POLITICS  |         |
| LLS/SPAN 3250                 | SURVEY OF LATIN AMERICAN FILM                                       |         |
| LLS/PSCI 3510                 | IMMIGRATION LAW AND LATINOS   |         |
| <b>English</b>                |   |         |
| ENGL 2490                     | LATINO/A LITERATURE   |         |
| ENGL 4230                     | LATINO LITERATURE   |         |
| ENGL 4240                     | TEACHING LATINO LITERATURE  |         |
| <b>History</b>                |   |         |
| HIST 4460                     | AMERICAN IMMIGRATION HISTORY  |         |
| <b>Political Science</b>      |   |         |
| PSCI/LLS 3140                 | LATINO/-A POLITICS  |         |
| PSCI/LLS 3510                 | IMMIGRATION LAW AND LATINOS   |         |
| <b>Sociology</b>              |   |         |
| SOC 2800                      | MAJOR SOCIAL ISSUES (Immigration, Gender and Employment)            |         |
| SOC 3900                      | RACE AND ETHNIC RELATIONS IN THE U.S.                               |         |
| <b>Spanish</b>                |   |         |
| SPAN 3010<br>or SPAN 3020     | SPANISH FOR HERITAGE SPEAKERS I<br>SPANISH FOR HERITAGE SPEAKERS II |         |
| SPAN 4070                     | HISPANIC BILINGUALISM   |         |
| SPAN 4130                     | SPANISH IN THE UNITED STATES  |         |



|                                       |  |
|---------------------------------------|--|
| SPAN 4330                             | LINGUISTIC JUSTICE AND LATINO HEALTH   |
| <b>Social Work</b>                    |  |
| SOWK 4030                             | SOCIAL WORK WITH LATINOS   |
| <b>Teacher Education</b>              |  |
| TED 2060                              | EQUITY, LANGUAGE, AND CULTURAL LITERACY (When taught by OLLAS approved faculty member.)    |
| <b>List B: Latin American Studies</b> |  |
| LLS/HIST 2480                         | HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT                                       |
| LLS/MUS 2810                          | MUSIC IN LATIN AMERICAN CULTURE  |
| LLS/SPAN 3050                         | LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE |
| LLS/SPAN 3250                         | SURVEY OF LATIN AMERICAN FILM  |
| LLS/SPAN 3420                         | LATIN AMERICAN CIVILIZATION  |
| LLS/PSCI 3680                         | GOVERNMENT AND POLITICS OF LATIN AMERICA   |
| LLS/GEOG 3070                         | GEOGRAPHY OF LATIN AMERICA   |
| LLS/SPAN 4140                         | INTRODUCTION TO LATIN AMERICAN FILM  |
| LLS/SPAN 4170                         | INTRODUCTION TO LATIN AMERICAN LITERATURES   |
| LLS/SPAN 4210                         | SPECIAL EXPLORATIONS IN LATIN AMERICAN FILM  |
| LLS/SPAN 4230                         | SPECIAL EXPLORATIONS IN LATIN AMERICAN LITERATURE  |
| LLS/SOC 4240                          | SOCIAL TRANSFORMATIONS IN LATIN AMERICA  |
| LLS/SOC 4250                          | RESEARCHING LATIN AMERICAN MIGRATIONS  |
| LLS/PSCI 4280                         | INTERNATIONAL RELATIONS OF LATIN AMERICA   |
| LLS/SPAN 4510                         | ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES               |
| LLS/BLST 4650/<br>HIST 4070           | SLAVERY AND RACE RELATIONS IN THE AMERICAS   |
| LLS/SOC 4780                          | URBAN LATIN AMERICA  |
| LLS/INST 4950                         | LATIN AMERICAN STUDY ABROAD  |
| <b>Anthropology</b>                   |  |
| ANTH 4230                             | ETHNOMEDICINES OF THE AMERICAS   |
| <b>Black Studies</b>                  |  |
| LLS/BLST 4650/<br>HIST 4070           | SLAVERY AND RACE RELATIONS IN THE AMERICAS   |
| <b>Geography</b>                      |  |
| GEOG 3070                             | GEOGRAPHY OF LATIN AMERICA   |
| <b>History</b>                        |  |
| HIST 2480                             | HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT                                       |
| HIST 4070/<br>LLS 4650/BLST 4650      | SLAVERY AND RACE RELATIONS IN THE AMERICAS   |
| <b>Political Science</b>              |  |
| PSCI/LLS 3680                         | GOVERNMENT AND POLITICS OF LATIN AMERICA   |
| PSCI/LLS 4280                         | INTERNATIONAL RELATIONS OF LATIN AMERICA   |
| <b>Sociology</b>                      |  |

|                           |  |
|---------------------------|--|
| SOC/LLS 4240              | SOCIAL TRANSFORMATIONS IN LATIN AMERICA                                      |
| SOC/LLS 4250              | RESEARCHING LATIN AMERICAN MIGRATIONS  |
| SOC/LLS 4780              | URBAN LATIN AMERICA  |
| <b>Spanish</b>            |  |
| SPAN 3010<br>or SPAN 3020 | SPANISH FOR HERITAGE SPEAKERS I<br>SPANISH FOR HERITAGE SPEAKERS II          |
| SPAN/LLS 3250             | SURVEY OF LATIN AMERICAN FILM  |
| SPAN/ENVN 3310            | SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD             |
| SPAN 3420                 | LATIN AMERICAN CIVILIZATION  |
| SPAN 4040                 | ADVANCED COMPOSITION AND STYLISTICS  |
| SPAN/LLS 4140             | INTRODUCTION TO LATIN AMERICAN FILM  |
| SPAN 4150                 | LITERATURE/CULTURE: CENTRAL AMERICA AND THE CARIBBEAN 1898-2000              |
| SPAN/LLS 4170             | INTRODUCTION TO LATIN AMERICAN LITERATURES                                   |
| SPAN/LLS 4230             | SPECIAL EXPLORATIONS IN LATIN AMERICAN LITERATURE                            |
| SPAN/LLS 4510             | ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES |

## Mathematics

Students interested in specializing in mathematics and intending to do either graduate work in Mathematics or work in business or industry will be interested in this degree. The Department of Mathematics and Statistical Sciences Degree Program prepares students for employment in the private or public sector, graduate school, and scientific research. Studying mathematics naturally develops quantitative thinking and analytical problem solving, talents with universal application. Demand will always be high for individuals with these universal talents to solve society's diverse and complex problems.

Seven concentrations and a No Concentration Option are available for a Bachelor of Arts and a Bachelor of Science.

## Other Information

All coursework taken for the Mathematics major or minor must be completed with a grade of C- or better.

At least one MATH or STAT course at the 3000 level or higher (excluding STAT 3000) must be taken at UNO to establish residency for the Mathematics major or minor.

## Double Majors

If planned correctly, some disciplines, such as computer science and math 6-12 teaching endorsement, require few to no additional math courses beyond what is required for the major. Talk to your advisor about double majoring with Mathematics to expand your educational opportunities!

## Student Groups

Math Club

Pi Mu Epsilon National Mathematics Honorary Society

Putnam Competition



## Fast Track Program

### Other Program Related Information

### Fast Track Program

The Department of Mathematics and Statistical Sciences has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- This program is available for undergraduate students pursuing a BA/BS in Mathematics or pursuing a double-major with BA/BS in Mathematics as the primary or secondary major desiring to pursue a MA/MS/MAT in Mathematics.
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form, obtain all signatures, and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Contact

mathugradadvising@unomaha.edu  
204 DSC  
402.554.3841

Website (<http://www.unomaha.edu/college-of-arts-and-sciences/mathematics/>)

## Bachelor of Arts and Bachelor of Science in Mathematics

The B.A. and B.S. Degrees with a major in Mathematics consists of 46 credits of required courses in Mathematics. Approved Statistics courses may also be included. Either degree option has eight possible concentrations and a No Concentration Option. The concentrations are defined by the required upper division courses.

## Degrees Offered

- Mathematics, Bachelor of Arts (p. 202)
- Mathematics, Bachelor of Science (p. 219)

**The Bachelor of Arts Degree** requires a world language through the intermediate level (16 credits).

**The Bachelor of Science Degree** requires at least 15 hours of related Cognate coursework that must be approved by the Math Academic Advisor/Coordinator. Students can also choose a UNO Minor to satisfy

their Cognate requirement; however, this Cognate minor cannot double-count as the Option 1 minor for the College of Arts & Sciences College Breadth Requirement. A Computer Science Minor cannot satisfy the Cognate requirement for Mathematics. No more than 6 credits of Cognate coursework may double-count within the general education requirements.

## Minors Offered

- Mathematics Minor (p. 236)

The Department Mathematics and Statistical Sciences Degree Program prepares students for employment in the private or public sector, graduate school, and scientific research. Studying Mathematics naturally develops quantitative thinking and analytic problem solving, skills with universal application. Mathematics majors learn to make critical observations, organize, analyze, and interpret data, and extract information and patterns. Demand will always be high for individuals with these universal skills to solve society's diverse and complex problems.

Mathematics majors often pursue careers as a:

- Cryptanalyst – developing encryption for cyber security for the Defense Department.
- Data scientist – analyzing data to make predictive decisions for a retailer.
- Operations research analyst – optimally determining which aircraft an airline should purchase.
- Teacher – teaching Math at the 7-12 level.
- Actuary – evaluating risk and helping companies make decisions.

When the Mathematics major is matched with complementary minors and thoughtful internships, new possibilities arise. A few examples are:

- Math + Biology = Biomathematician: modeling biological processes for a Biotech company.
- Math + Graphic Design = Animator: making realistic graphics for a movie.
- Math + Forensics = Forensics Analyst: solve crimes for the FBI.
- Math + Geology = Hydrologist: solving problems related to water quantity, quality, and availability for the U.S. Geological Survey.
- Math + English = Technical writer: writing documents for industries that need writers fluent with numbers and calculations.

## Mathematics, Bachelor of Arts

## Mathematics, Bachelor of Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                             |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY         |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Mathematics Bachelor of Arts - 46 Hours Required****Required Coursework 25**

|           |                               |
|-----------|-------------------------------|
| MATH 1950 | CALCULUS I (^)                |
| MATH 1960 | CALCULUS II                   |
| MATH 1970 | CALCULUS III                  |
| MATH 2050 | APPLIED LINEAR ALGEBRA        |
| MATH 2230 | INTRODUCTION TO ABSTRACT MATH |
| MATH 2350 | DIFFERENTIAL EQUATIONS        |
| MATH 3230 | INTRODUCTION TO ANALYSIS      |

**Select one of the following 3**

|           |                                    |
|-----------|------------------------------------|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I |
| MATH 2200 | MATHEMATICAL COMPUTING I           |
| MATH 3250 | INTRODUCTION TO NUMERICAL METHODS  |

**An additional 18 credits of approved 3000/4000 Level MATH/STAT courses, which must include at least 9 credits at the 4000 Level 18****College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**Mathematics, Bachelor of Arts Concentrations**

- Applied and Computational Mathematics (p. 203)
- Data Science (p. 205)
- Mathematics Education (p. 207)
- Operations Research (p. 210)
- Pre-Actuarial Mathematics (p. 212)
- Pure Mathematics (p. 214)
- Statistics (p. 217)

**Applied and Computational Mathematics Concentration****Mathematics, Bachelor of Arts with a concentration in Applied and Computational Mathematics Requirements**

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills 15****Writing – 6 hrs.**

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### Mathematics Major with a Concentration in Applied Mathematics- 46 Hours Required

#### Required Coursework: 25

|           |                                   |
|-----------|-----------------------------------|
| MATH 1950 | CALCULUS I (^)                    |
| MATH 1960 | CALCULUS II (^)                   |
| MATH 1970 | CALCULUS III (^)                  |
| MATH 2050 | APPLIED LINEAR ALGEBRA (^)        |
| MATH 2230 | INTRODUCTION TO ABSTRACT MATH (^) |
| MATH 2350 | DIFFERENTIAL EQUATIONS (^)        |
| MATH 3230 | INTRODUCTION TO ANALYSIS (^)      |

#### Select one of the following 3

|           |  |
|-----------|--|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I (^)             |
| MATH 4200 | NUMERICAL ANALYSIS (^)                             |
| MATH 4330 | INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (^) |

#### Select all of the following Applied and Computational Mathematics Concentration courses 9

|                |  |
|----------------|--|
| MATH/CSCI 3100 | APPLIED COMBINATORICS (^)                          |
| MATH/CSCI 4200 | NUMERICAL ANALYSIS (^)                             |
| MATH 4330      | INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (^) |

#### Select three of the following Applied and Computational Mathematics Concentration courses 9

|                |   |
|----------------|---|
| MATH 3400      | THEORY OF INTEREST (^)  |
| MATH/CSCI 4150 | GRAPH THEORY & APPLICATIONS (^)   |
| MATH/CSCI 4300 | DETERMINISTIC OPERATIONS RESEARCH MODELS (^)  |
| MATH/CSCI 4310 | PROBABILISTIC OPERATIONS RESEARCH MODELS (^)  |
| MATH/CSCI 4320 | COMPUTATIONAL OPERATIONS RESEARCH (^)   |
| MATH 4350      | ORDINARY DIFFERENTIAL EQUATIONS (* ^)   |
| MATH 4400      | THE FINITE ELEMENT METHOD (* ^)   |
| MATH 4740      | INTRODUCTION TO PROBABILITY AND STATISTICS I (* ^)  |
| MATH 4750      | INTRODUCTION TO PROBABILITY AND STATISTICS II (* ^)   |
| MATH 4760      | TOPICS IN APPLIED MATHEMATICS (* ^)   |
| MATH 4900      | INDEPENDENT STUDIES (* ^ must be related to applied and computational mathematics)            |
| MATH 4970      | SEMINAR IN APPLIED MATHEMATICS (* ^ must be related to applied and computational mathematics) |

\*These courses are highly recommended for this concentration.

#### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### Bachelor of Arts Language Requirement 16

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

ELECTIVES

Elective hours as required to reach a total of 120 hours

## Mathematics, Bachelor of Arts with a concentration in Applied and Computational Mathematics Four Year Plan

### Freshman

| Fall                       |  | Credits |
|----------------------------|--|---------|
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3       |
| ENGL 1150                  | ENGLISH COMPOSITION I                                | 3       |
| MATH 1950                  | CALCULUS I   | 5       |
| World Language Course 1110 |  | 5       |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

|                                      | Credits                                   | 16 |
|--------------------------------------|---|----|
| <b>Spring</b>                        |   |    |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3  |
| MATH 1960                            | CALCULUS II                               | 4  |
| World Language Course 1120           |   | 5  |
| General Education Course or Elective |   | 3  |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

|                                      | Credits                | 15 |
|--------------------------------------|------------------------|----|
| <b>Sophomore</b>                     |                        |    |
| <b>Fall</b>                          |                        |    |
| MATH 1970                            | CALCULUS III           | 4  |
| MATH 2050                            | APPLIED LINEAR ALGEBRA | 3  |
| General Education Course or Elective |                        | 4  |
| World Language Course 2110           |                        | 3  |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

|                                      | Credits                       | 14 |
|--------------------------------------|-------------------------------|----|
| <b>Spring</b>                        |                               |    |
| MATH 2230                            | INTRODUCTION TO ABSTRACT MATH | 3  |
| MATH 2350                            | DIFFERENTIAL EQUATIONS (*)    | 3  |
| Social Science with U.S. Diversity   |                               | 3  |
| General Education Course or Elective |                               | 3  |

## World Language Course 2120 3

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

\*MATH 2350 It is recommended you take MATH 2050 first, but not required

**Credits 15****Junior****Fall**

HIST 1010 WORLD HISTORY SINCE 1500 (General Education Course or Elective) 3

MATH 3230 INTRODUCTION TO ANALYSIS 3

General Education Course or Elective 3

MATH 4330 INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS 3

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

Coding Course 3

**Credits 15****Spring**

MATH 3100 APPLIED COMBINATORICS (\*\*) 3

Elective 3

Applied Math Elective 3

Elective 3

General Education Course or Elective 3

General Education Course or Elective

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15****Senior****Fall**

Applied Math Elective 3

MATH 4200 NUMERICAL ANALYSIS 3

General Education Course or Elective 3

Elective 3

Elective 3

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 15****Spring**

ELECTIVE 3

ELECTIVE 3

ELECTIVE 3

ELECTIVE 3

ELECTIVE 3

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits 15**

**Total Credits 120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Data Science Concentration Mathematics Bachelor of Arts with a Concentration in Data Science

**Code Title Credits**

### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

### Fundamental Skills 15

#### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

#### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

#### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Mathematics Major with a Concentration in Data Science - 46 Hours Required****Required Coursework 25**

MATH 1950 CALCULUS I (^)

MATH 1960 CALCULUS II

MATH 1970 CALCULUS III

MATH 2050 APPLIED LINEAR ALGEBRA

MATH 2230 INTRODUCTION TO ABSTRACT MATH

MATH 2350 DIFFERENTIAL EQUATIONS

MATH 3230 INTRODUCTION TO ANALYSIS

**Select one of the following 3**

CIST 1400 INTRODUCTION TO COMPUTER SCIENCE I

MATH 2200 MATHEMATICAL COMPUTING I

MATH 3250 INTRODUCTION TO NUMERICAL METHODS

**Select all of the following Data Science Concentration courses 15**

MATH 3200 MATHEMATICAL COMPUTING II (^)

or CSCI 1620 INTRODUCTION TO COMPUTER SCIENCE II

MATH 4740 INTRODUCTION TO PROBABILITY AND STATISTICS I

MATH 4750 INTRODUCTION TO PROBABILITY AND STATISTICS II

STAT 4410 INTRODUCTION TO DATA SCIENCE

STAT 4420 EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION

**Select one of the following Data Science Concentration courses 3**

MATH/CSCI 4300 DETERMINISTIC OPERATIONS RESEARCH MODELS

MATH/CSCI 4310 PROBABILISTIC OPERATIONS RESEARCH MODELS

MATH/STAT 4450 INTRODUCTION TO MACHINE LEARNING AND DATA MINING

MATH 4900 INDEPENDENT STUDIES

STAT 4430 LINEAR MODELS

STAT 4440 TIME SERIES ANALYSIS

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15 + hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Mathematics Bachelor of Arts with a Concentration in Data Science Four Year Plan

**Freshman**

| Fall  |  | Credits |
|---|--|---------|
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3       |
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3       |
| MATH 1950   | CALCULUS I   | 5       |
| World Language Course 1110  |  | 5       |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |         |

**Credits 16**

**Spring**

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| MATH 1960                            | CALCULUS II                               | 4 |
| World Language Course 1120           |   | 5 |
| General Education Course or Elective |   | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Sophomore**

| Fall                                 |                        |   |
|--------------------------------------|------------------------|---|
| MATH 1970                            | CALCULUS III           | 4 |
| MATH 2050                            | APPLIED LINEAR ALGEBRA | 3 |
| General Education Course or Elective |                        | 4 |
| World Language Course 2110           |                        | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 14**



**Spring**

|  |                               |   |
|--|-------------------------------|---|
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH | 3 |
| MATH 2350  | DIFFERENTIAL EQUATIONS        | 3 |
| General Education Course or Elective   |                               | 3 |
| General Education Course or Elective   |                               | 3 |
| World Language Course 2120   |                               | 3 |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                               |   |

**Credits** **15**

**Junior****Fall**

|                                      |   |   |
|--------------------------------------|---|---|
| MATH 3230                            | INTRODUCTION TO ANALYSIS  | 3 |
| MATH 4740                            | INTRODUCTION TO PROBABILITY AND STATISTICS I                      | 3 |
| CIST 1400<br>or MATH 2200            | INTRODUCTION TO COMPUTER SCIENCE I<br>or MATHEMATICAL COMPUTING I | 3 |
| General Education Course or Elective |   | 3 |
| Elective                             |   | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15**

**Spring**

|                                      |   |   |
|--------------------------------------|---|---|
| MATH 4750                            | INTRODUCTION TO PROBABILITY AND STATISTICS II                       | 3 |
| CSCI 1620<br>or MATH 3200            | INTRODUCTION TO COMPUTER SCIENCE II<br>or MATHEMATICAL COMPUTING II | 3 |
| General Education Course or Elective |   | 3 |
| Elective                             |   | 3 |
| Elective                             |   | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Senior****Fall**

|                                      |                              |   |
|--------------------------------------|------------------------------|---|
| STAT 4410                            | INTRODUCTION TO DATA SCIENCE | 3 |
| Approved Data Science Course         |                              | 3 |
| Elective                             |                              | 3 |
| Elective                             |                              | 3 |
| General Education Course or Elective |                              | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|           |   |   |
|-----------|---|---|
| STAT 4420 | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION (*) | 3 |
|-----------|---|---|

|                              |   |
|------------------------------|---|
| Approved Data Science Course | 3 |
| Elective                     | 3 |
| Elective                     | 3 |
| Elective                     | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Mathematics Education Concentration

### Mathematics, Bachelor of Arts with a Concentration in Mathematics Education Requirements

| Code  | Title                 | Credits   |
|---|-----------------------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |                       |           |
| Minimum of "C-" required                                  |                       |           |
| <b>Fundamental Skills</b>                                 |                       | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |                       |           |
| ENGL 1150   | ENGLISH COMPOSITION I |           |



|  |  |           |
|--|--|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY                                      |           |
| <b>Oral Communication – 3 hrs.</b>   |  |           |
| CMST 1110  | PUBLIC SPEAKING FUNDS  |           |
| or CMST 2120   | ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>  |  |           |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                        |           |
| or MATH 1130   | QUANTITATIVE LITERACY  |           |
| or MATH 1140   | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                            |           |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT   |           |
| <b>Data Literacy – 3 hrs.</b>  |  |           |
| Select one from the following:   |  |           |
| STAT 1100  | DATA LITERACY AND VISUALIZATION  |           |
| STAT 1530  | ELEMENTARY STATISTICS  |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.  |  |           |
| <b>Breadth of Knowledge</b>  |  | <b>13</b> |
| Social Science – 3 hrs.  |  |           |
| Humanities – 3 hrs.  |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |  |           |
| Arts – 3 hrs.  |  |           |
| <b>Individual and Social Responsibility</b>  |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |  |           |
| Civic Knowledge and Engagement – 3 hrs.  |  |           |
| <b>MAJOR REQUIREMENTS</b>  |  |           |
| **Course will satisfy UNO's General Education requirement  |  |           |
| ^Course requires pre-requisite(s)  |  |           |
| <b>Mathematics Major with a Concentration in Mathematics Education - 46 Hours Required</b>   |  |           |
| This concentration is recommended for students interested in pursuing a career in Secondary Education. In some cases it is possible to simultaneously earn a B.S. or a B.A. in Math and a B.S. in Secondary Education. |  |           |
| <b>Required Coursework</b>   |  | <b>25</b> |
| MATH 1950  | CALCULUS I (^)   |           |
| MATH 1960  | CALCULUS II  |           |
| MATH 1970  | CALCULUS III   |           |
| MATH 2050  | APPLIED LINEAR ALGEBRA   |           |
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH  |           |
| MATH 2350  | DIFFERENTIAL EQUATIONS   |           |
| MATH 3230  | INTRODUCTION TO ANALYSIS   |           |
| <b>Select one of the following</b>   |  | <b>3</b>  |
| CIST 1400  | INTRODUCTION TO COMPUTER SCIENCE I   |           |
| MATH 2200  | MATHEMATICAL COMPUTING I (Recommended for Mathematics Education Concentration) |           |
| MATH 3250  | INTRODUCTION TO NUMERICAL METHODS  |           |
| <b>Select all of the following Mathematics Education Concentration courses</b>   |  | <b>12</b> |
| MATH 3640  | MODERN GEOMETRY  |           |
| MATH 3850  | HISTORY OF MATHEMATICS   |           |
| MATH 4030  | MODERN ALGEBRA   |           |
| MATH 4740  | INTRODUCTION TO PROBABILITY AND STATISTICS I                                   |           |

|   |   |                |
|---|---|----------------|
| <b>Select two of the following Mathematics Education Concentration courses</b>  |   | <b>6</b>       |
| MATH 3100   | APPLIED COMBINATORICS   |                |
| MATH 3200   | MATHEMATICAL COMPUTING II   |                |
| MATH 4050   | LINEAR ALGEBRA  |                |
| MATH 4560   | NUMBER THEORY & CRYPTOGRAPHY  |                |
| MATH 4610   | INTRODUCTION TO TOPOLOGY  |                |
| <b>Select all of the following Educator Preparation Program Requirements</b>  |   | <b>27</b>      |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)   |                |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)   |                |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY   |                |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE   |                |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING   |                |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)  |                |
| TED 3690  | LITERACY AND LEARNING (^)   |                |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)   |                |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)   |                |
| <b>For those who want a Nebraska Math 6-12 Teaching Certificate</b>   |   | <b>12</b>      |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (Requires completion of all course work, have a minimum cumulative GPA of 2.75, passing Praxis Core scores (Math, Reading, and Writing), and be accepted into Clinical Practice) |                |
| <b>College Breadth</b>  |   |                |
| College of Arts and Sciences' college breadth requirement satisfied by this major   |   |                |
| <b>Bachelor of Arts Language Requirement</b>  |   | <b>16</b>      |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120   |   |                |
| <b>ELECTIVES</b>  |   |                |
| Elective hours as required to reach a total of 120 hours  |   |                |
| <b>Mathematics, Bachelor of Arts with a Concentration in Mathematics Education Four Year Plan</b>   |   |                |
| <b>Freshman</b>   |   |                |
| <b>Fall</b>   |   | <b>Credits</b> |
| CMST 1110   | PUBLIC SPEAKING FUNDS   | 3              |
| or CMST 2120  | or ARGUMENTATION AND DEBATE   |                |
| ENGL 1150   | ENGLISH COMPOSITION I   | 3              |
| MATH 1950   | CALCULUS I  | 5              |
| World Language Course 1110  |   | 5              |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |                |
| <b>Credits</b>  |   | <b>16</b>      |

**Spring**

|                            |   |   |
|----------------------------|---|---|
| ENGL 1160                  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| MATH 1960                  | CALCULUS II                               | 4 |
| MATH 2050                  | APPLIED LINEAR ALGEBRA                    | 3 |
| World Language Course 1120 |   | 5 |

Recommended: Begin studying for Praxis CORE Academic Skills.

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Summer**

|           |              |   |
|-----------|--------------|---|
| MATH 1970 | CALCULUS III | 4 |
|-----------|--------------|---|

**Credits 4**

**Sophomore****Fall**

|                            |  |   |
|----------------------------|--|---|
| MATH 2200                  | MATHEMATICAL COMPUTING I   | 3 |
| MATH 2230                  | INTRODUCTION TO ABSTRACT MATH  | 3 |
| TED 2100                   | EDUCATIONAL FOUNDATIONS  | 3 |
| TED 2200<br>or TED 2060    | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3 |
| World Language Course 2110 |  | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|                                      |                           |   |
|--------------------------------------|---------------------------|---|
| MATH 3200                            | MATHEMATICAL COMPUTING II | 3 |
| MATH 3230                            | INTRODUCTION TO ANALYSIS  | 3 |
| MATH 4030                            | MODERN ALGEBRA            | 3 |
| General Education Course or Elective |                           | 3 |
| World Language Course 2120           |                           | 3 |

Required: Pass Praxis CORE Academic Skills by the end of this semester.

Required: Acceptance into Educator Preparation Program. Must have 2.75 GPA.

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Summer**

|                                      |                            |   |
|--------------------------------------|----------------------------|---|
| MATH 2350                            | DIFFERENTIAL EQUATIONS (*) | 3 |
| General Education Course or Elective |                            | 3 |

**Credits 6**

**Junior****Fall**

|           |   |   |
|-----------|---|---|
| MATH 3640 | MODERN GEOMETRY                             | 3 |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (*) | 3 |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (*)         | 6 |

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

\*TED 2400 and 2380 must be taken back-to-back, in either a Morning or Afternoon block.

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15**

**Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| MATH 3100<br>or MATH 4560            | APPLIED COMBINATORICS<br>or NUMBER THEORY & CRYPTOGRAPHY | 3 |
| MATH 3850                            | HISTORY OF MATHEMATICS                                   | 3 |
| TED 3550                             | SECONDARY CLASSROOM MANAGEMENT (*)                       | 3 |
| TED 3690                             | LITERACY AND LEARNING (*)                                | 3 |
| General Education Course or Elective |  | 3 |

\*TED 3550 and TED 3690 must be taken back-to-back, in either a Morning or Afternoon block.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Summer**

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 4 |
| General Education Course or Elective | 3 |

**Credits 7**

**Senior****Fall**

|                                      |  |   |
|--------------------------------------|--|---|
| MATH 4740                            | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3 |
| SPED 3800                            | DIFFERENTIATION AND INCLUSIVE PRACTICES (*)  | 3 |
| TED 4000                             | SPECIAL METHODS IN THE CONTENT AREA (*)      | 3 |
| General Education Course or Elective |  | 3 |

\*SPED 3800: Must be taken concurrently with TED 4000 or TED 3550

Recommended but not required: Pass Praxis II.

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 12**

**Spring**

|          |  |    |
|----------|--|----|
| TED 4600 | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12 |
|----------|--|----|

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits 12**

**Total Credits 132**

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** TED 2100 and TED 2200 require a 2.50 GPA. TED 2380 and TED 2400 as well as Admission into the Teacher Prep Program require a 2.75 GPA.

**Graduation Requirements:** 2.75 GPA.

# Operations Research Concentration

## Mathematics, Bachelor of Arts with a Concentration in Operations Research Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility**

**6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Mathematics Major with a Concentration in Operations Research - 46 Hours Required**

|  |   |           |
|--|---|-----------|
| <b>Required Coursework</b>   |   | <b>25</b> |
| MATH 1950  | CALCULUS I (^)                                    |           |
| MATH 1960  | CALCULUS II                                       |           |
| MATH 1970  | CALCULUS III                                      |           |
| MATH 2050  | APPLIED LINEAR ALGEBRA                            |           |
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH                     |           |
| MATH 2350  | DIFFERENTIAL EQUATIONS                            |           |
| MATH 3230  | INTRODUCTION TO ANALYSIS                          |           |
| <b>Select one of the following</b>   |   | <b>3</b>  |
| CIST 1400  | INTRODUCTION TO COMPUTER SCIENCE I                |           |
| MATH 2200  | MATHEMATICAL COMPUTING I                          |           |
| MATH 3250  | INTRODUCTION TO NUMERICAL METHODS                 |           |
| <b>Select all of the following Operations Research Concentration courses</b> |   | <b>15</b> |
| MATH 3200  | MATHEMATICAL COMPUTING II (^)                     |           |
| or CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II               |           |
| MATH/CSCI 4300   | DETERMINISTIC OPERATIONS RESEARCH MODELS          |           |
| MATH/CSCI 4310   | PROBABILISTIC OPERATIONS RESEARCH MODELS          |           |
| MATH 4320  | COMPUTATIONAL OPERATIONS RESEARCH                 |           |
| MATH 4740  | INTRODUCTION TO PROBABILITY AND STATISTICS I      |           |
| or STAT 3800   | APPLIED ENGINEERING PROBABILITY AND STATISTICS    |           |
| <b>Select one the following Operations Research Concentration courses</b>    |   | <b>3</b>  |
| MATH/CSCI 4150   | GRAPH THEORY & APPLICATIONS                       |           |
| MATH/STAT 4450   | INTRODUCTION TO MACHINE LEARNING AND DATA MINING  |           |
| MATH 4750  | INTRODUCTION TO PROBABILITY AND STATISTICS II     |           |
| MATH 4900  | INDEPENDENT STUDIES                               |           |
| STAT 4410  | INTRODUCTION TO DATA SCIENCE                      |           |
| STAT 4420  | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION |           |
| STAT 4430  | LINEAR MODELS                                     |           |
| STAT 4440  | TIME SERIES ANALYSIS                              |           |

**College Breadth (choose one option)**

**15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Mathematics, Bachelor of Arts with a Concentration in Operations Research Four Year Plan

### Freshman

| Fall                       |                       | Credits |
|----------------------------|-----------------------|---------|
| CMST 1110                  | PUBLIC SPEAKING FUNDS | 3       |
| ENGL 1150                  | ENGLISH COMPOSITION I | 3       |
| MATH 1950                  | CALCULUS I            | 5       |
| World Language Course 1110 |                       | 5       |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 16**

### Spring

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| MATH 1960                            | CALCULUS II                               | 4 |
| World Language Course 1120           |   | 5 |
| General Education Course or Elective |   | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 15**

### Sophomore

| Fall                                 |                               | Credits |
|--------------------------------------|-------------------------------|---------|
| MATH 1970                            | CALCULUS III                  | 4       |
| MATH 2230                            | INTRODUCTION TO ABSTRACT MATH | 3       |
| General Education Course or Elective |                               | 4       |
| World Language Course 2110           |                               | 3       |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 14**

### Spring

|           |                        |   |
|-----------|------------------------|---|
| MATH 2050 | APPLIED LINEAR ALGEBRA | 3 |
|-----------|------------------------|---|

|                                      |                          |   |
|--------------------------------------|--------------------------|---|
| MATH 3230                            | INTRODUCTION TO ANALYSIS | 3 |
| General Education Course or Elective |                          | 3 |
| World Language Course 2110           |                          | 3 |
| General Education Course or Elective |                          | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

### Junior

#### Fall

|                                      |  |   |
|--------------------------------------|--|---|
| MATH/CSCI 4300                       | DETERMINISTIC OPERATIONS RESEARCH MODELS     | 3 |
| MATH 4740                            | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3 |
| General Education Course or Elective |  | 3 |
| Coding Course                        |  | 3 |
| General Education Course or Elective |  | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15**

#### Spring

|                                      |   |   |
|--------------------------------------|---|---|
| MATH 3200<br>or CSCI 1620            | MATHEMATICAL COMPUTING II<br>or INTRODUCTION TO COMPUTER SCIENCE II | 3 |
| MATH/CSCI 4310                       | PROBABILISTIC OPERATIONS RESEARCH MODELS                            | 3 |
| General Education Course or Elective |   | 3 |
| General Education Course or Elective |   | 3 |
| Elective                             |   | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15**

### Senior

#### Fall

|   |                        |   |
|---|------------------------|---|
| MATH 2350   | DIFFERENTIAL EQUATIONS | 3 |
| Operations Research Elective or Elective at 3000-4000 Level |                        | 3 |
| Elective  |                        | 3 |
| Elective  |                        | 3 |
| Elective  |                        | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

#### Spring

|   |                                   |   |
|---|-----------------------------------|---|
| MATH 4320   | COMPUTATIONAL OPERATIONS RESEARCH | 3 |
| Elective  |                                   | 3 |
| Operations Research Elective or Elective at 3000-4000 Level |                                   | 3 |

|  |            |
|--|------------|
| Elective at 3000-4000 Level  | 3          |
| Elective   | 3          |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |            |
| <b>Credits</b>   | <b>15</b>  |
| <b>Total Credits</b>   | <b>120</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Pre-Actuarial Mathematics Concentration

### Mathematics, Bachelor of Arts with a Concentration in Pre-Actuarial Mathematics Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |

#### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

#### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Mathematics Major with a Concentration in Pre-Actuarial Mathematics - 46 Hours Required

#### Required Coursework 25

|           |                               |
|-----------|-------------------------------|
| MATH 1950 | CALCULUS I (^)                |
| MATH 1960 | CALCULUS II                   |
| MATH 1970 | CALCULUS III                  |
| MATH 2050 | APPLIED LINEAR ALGEBRA        |
| MATH 2230 | INTRODUCTION TO ABSTRACT MATH |
| MATH 2350 | DIFFERENTIAL EQUATIONS        |
| MATH 3230 | INTRODUCTION TO ANALYSIS      |

#### Select one of the following 3

|           |                                    |
|-----------|------------------------------------|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I |
| MATH 2200 | MATHEMATICAL COMPUTING I           |
| MATH 3250 | INTRODUCTION TO NUMERICAL METHODS  |

#### Select all of the following Pre-Actuarial Mathematics Concentration courses 18

|                |   |
|----------------|---|
| MATH 3200      | MATHEMATICAL COMPUTING II (^)                 |
| MATH 3400      | THEORY OF INTEREST                            |
| MATH/CSCI 4310 | PROBABILISTIC OPERATIONS RESEARCH MODELS      |
| or STAT 4430   | LINEAR MODELS                                 |
| MATH 4740      | INTRODUCTION TO PROBABILITY AND STATISTICS I  |
| MATH 4750      | INTRODUCTION TO PROBABILITY AND STATISTICS II |
| STAT 4440      | TIME SERIES ANALYSIS                          |

#### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours  
Additional quantitative literacy - 3 hours



|   |           |
|---|-----------|
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |           |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |           |
| HIST 1000 and HIST 1010 - 6 hours   |           |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |           |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |           |
| <b>Bachelor of Arts Language Requirement - 16 Hours Required</b>                  | <b>16</b> |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |           |
| <b>ELECTIVES</b>  |           |
| Elective hours as required to reach a total of 120 hours                          |           |

## Mathematics, Bachelor of Arts with a Concentration in Pre-Actuarial Mathematics Four Year Plan

### Freshman

| Fall  |                             | Credits   |
|---|-----------------------------|-----------|
| CMST 1110   | PUBLIC SPEAKING FUNDS       | 3         |
| or CMST 2120  | or ARGUMENTATION AND DEBATE |           |
| MATH 1950   | CALCULUS I                  | 5         |
| ENGL 1150   | ENGLISH COMPOSITION I       | 3         |
| World Language Course 1110  |                             | 5         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |                             |           |
| <b>Credits</b>  |                             | <b>16</b> |

### Spring

|  |   |           |
|--|---|-----------|
| MATH 1960  | CALCULUS II                               | 4         |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| World Language Course 1120   |   | 5         |
| General Education Course or Elective   |   | 3         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |
| <b>Credits</b>   |   | <b>15</b> |

### Sophomore

| Fall   |                               | Credits   |
|--|-------------------------------|-----------|
| MATH 1970  | CALCULUS III                  | 4         |
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH | 3         |
| General Education Course or Elective   |                               | 3         |
| World Language Course 2110   |                               | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                               |           |
| <b>Credits</b>   |                               | <b>13</b> |

### Spring

|  |                              |           |
|--|------------------------------|-----------|
| MATH 2050  | APPLIED LINEAR ALGEBRA       | 3         |
| MATH 3230  | INTRODUCTION TO ANALYSIS (*) | 3         |
| General Education Course or Elective   |                              | 3         |
| World Language Course 2120   |                              | 3         |
| Optional VEE Elective  |                              | 3         |
| NOTE: Student should consider taking the Exam FM through the Society of Actuaries the summer following this semester.  |                              |           |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                              |           |
| <b>Credits</b>   |                              | <b>15</b> |

### Junior

| Fall   |  | Credits   |
|--|--|-----------|
| MATH 2200  | MATHEMATICAL COMPUTING I                     | 3         |
| MATH 2350  | DIFFERENTIAL EQUATIONS                       | 3         |
| MATH 3400  | THEORY OF INTEREST                           | 3         |
| MATH 4740  | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3         |
| General Education Course or Elective   |  | 3         |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Spring

|  |   |           |
|--|---|-----------|
| MATH 3200  | MATHEMATICAL COMPUTING II                     | 3         |
| MATH/CSCI 4310   | PROBABILISTIC OPERATIONS RESEARCH MODELS      | 3         |
| MATH 4750  | INTRODUCTION TO PROBABILITY AND STATISTICS II | 3         |
| Coding Course 2***   |   | 3         |
| General Education Course or Elective   |   | 3         |
| Optional VEE Elective  |   | 3         |
| NOTE: Student should consider taking Exam P through the Society of Actuaries the summer following this semester.   |   |           |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |   |           |
| <b>Credits</b>   |   | <b>18</b> |

### Senior

| Fall   |               | Credits   |
|--|---------------|-----------|
| Elective   |               | 3         |
| STAT 4430  | LINEAR MODELS | 3         |
| Elective   |               | 3         |
| General Education Course or Elective   |               | 4         |
| General Education Course or Elective   |               | 3         |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |               |           |
| <b>Credits</b>   |               | <b>16</b> |



**Spring**

|  |                      |            |
|--|----------------------|------------|
| Elective   |                      | 3          |
| STAT 4440  | TIME SERIES ANALYSIS | 3          |
| Elective   |                      | 3          |
| Elective   |                      | 3          |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |                      |            |
| <b>Credits</b>   |                      | <b>12</b>  |
| <b>Total Credits</b>   |                      | <b>120</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Pure Mathematics Concentration

### Mathematics, Bachelor of Arts with a Concentration in Pure Mathematics Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Mathematics Major with a Concentration in Pure - 46 Hours Required

**Required Coursework 25**

|           |                                   |
|-----------|-----------------------------------|
| MATH 1950 | CALCULUS I (^)                    |
| MATH 1960 | CALCULUS II (^)                   |
| MATH 1970 | CALCULUS III (^)                  |
| MATH 2050 | APPLIED LINEAR ALGEBRA (^)        |
| MATH 2230 | INTRODUCTION TO ABSTRACT MATH (^) |
| MATH 2350 | DIFFERENTIAL EQUATIONS (^)        |
| MATH 3230 | INTRODUCTION TO ANALYSIS (^)      |

**Select one of the following 3**

|           |  |
|-----------|--|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I (^) |
| MATH 2200 | MATHEMATICAL COMPUTING I (^)           |
| MATH 3250 | INTRODUCTION TO NUMERICAL METHODS (^)  |

**Select all of the following Pure Mathematics Concentration courses 9**

|           |                             |
|-----------|-----------------------------|
| MATH 4050 | LINEAR ALGEBRA (^)          |
| MATH 4110 | ABSTRACT ALGEBRA I (^)      |
| MATH 4230 | MATHEMATICAL ANALYSIS I (^) |

**Select three of the following Pure Mathematics Concentration courses<sup>1</sup> 9**

|                |   |
|----------------|---|
| MATH 3640      | MODERN GEOMETRY (^)                                   |
| MATH/CSCI 4010 | INTRODUCTION TO THE THEORY OF RECURSIVE FUNCTIONS (^) |
| MATH 4120      | ABSTRACT ALGEBRA II (^ 2)                             |
| MATH/CSCI 4150 | GRAPH THEORY & APPLICATIONS (^)                       |
| MATH 4240      | MATHEMATICAL ANALYSIS II (^ 3)                        |
| MATH 4270      | COMPLEX ANALYSIS (^ 4)                                |

|                |  |
|----------------|--|
| MATH 4330      | INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (^ 5) |
| MATH 4350      | ORDINARY DIFFERENTIAL EQUATIONS (^)                  |
| MATH/CSCI 4560 | NUMBER THEORY & CRYPTOGRAPHY (^)                     |
| MATH 4610      | INTRODUCTION TO TOPOLOGY (^ 1)                       |
| MATH 4900      | INDEPENDENT STUDIES                                  |

<sup>1</sup> Course names followed by numbers (1) - (5) indicate most appropriate electives for students planning to apply to a PhD. program in Mathematics in order of importance, with (1) indicating signifying the most important.

| Code  | Title | Credits       |
|---|-------|---------------|
| <b>College Breadth (choose one option)</b>  |       | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours         |       |               |
| Option 2: Additional General Education Requirements - 15-30+ hours                |       |               |
| Additional quantitative literacy - 3 hours  |       |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |       |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |       |               |
| HIST 1000 and HIST 1010 - 6 hours   |       |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |       |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |       |               |
| <b>Bachelor of Arts Language Requirement</b>                                      |       | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |       |               |
| <b>ELECTIVES</b>  |       |               |
| Elective hours as required to reach a total of 120 hours                          |       |               |

## Mathematics, Bachelor of Arts with a Concentration in Pure Mathematics, Even Year Admit Four Year Plan

### Freshman

| Fall  |                             | Credits |
|---|-----------------------------|---------|
| CMST 1110   | PUBLIC SPEAKING FUNDS       | 3       |
| or CMST 2120  | or ARGUMENTATION AND DEBATE |         |
| ENGL 1150   | ENGLISH COMPOSITION I       | 3       |
| MATH 1950   | CALCULUS I                  | 5       |
| World Language Course 1110  |                             | 5       |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |                             |         |

|                                      | Credits                                   | 16 |
|--------------------------------------|---|----|
| <b>Spring</b>                        |   |    |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3  |
| MATH 1960                            | CALCULUS II                               | 4  |
| World Language Course 1120           |   | 5  |
| General Education Course or Elective |   | 3  |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

|  | Credits                       | 15 |
|--|-------------------------------|----|
| <b>Sophomore</b>   |                               |    |
| <b>Fall</b>  |                               |    |
| MATH 1970  | CALCULUS III                  | 4  |
| MATH 2050  | APPLIED LINEAR ALGEBRA        | 3  |
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH | 3  |
| World Language Course 2110   |                               | 3  |
| General Education Course or Elective   |                               | 3  |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                               |    |

|  | Credits                  | 16 |
|--|--------------------------|----|
| <b>Spring</b>  |                          |    |
| MATH 2350  | DIFFERENTIAL EQUATIONS   | 3  |
| MATH 3230  | INTRODUCTION TO ANALYSIS | 3  |
| MATH 4050  | LINEAR ALGEBRA           | 3  |
| World Language Course 2120   |                          | 3  |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                          |    |

|  | Credits            | 12 |
|--|--------------------|----|
| <b>Junior</b>  |                    |    |
| <b>Fall</b>  |                    |    |
| MATH 4110  | ABSTRACT ALGEBRA I | 3  |
| Pure Mathematics Elective  |                    | 3  |
| Coding Course  |                    | 3  |
| General Education Course or Elective   |                    | 3  |
| General Education Course or Elective   |                    | 3  |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |                    |    |

|  | Credits | 15 |
|--|---------|----|
| <b>Spring</b>  |         |    |
| Elective   |         | 3  |
| Elective   |         | 3  |
| Pure Mathematics Elective  |         | 3  |
| General Education Course or Elective   |         | 3  |
| General Education Course or Elective   |         | 3  |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |         |    |

|  | Credits | 15 |
|--|---------|----|
|--|---------|----|

**Senior****Fall**

|                                      |                         |   |
|--------------------------------------|-------------------------|---|
| Elective                             | 3                       |   |
| MATH 4230                            | MATHEMATICAL ANALYSIS I | 3 |
| General Education Course or Elective |                         | 4 |
| Elective                             |                         | 3 |
| Elective                             |                         | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **16**

**Spring**

|                           |   |
|---------------------------|---|
| Pure Mathematics Elective | 3 |
| Elective                  | 3 |
| Elective                  | 3 |
| Elective                  | 3 |
| Elective                  | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

## Mathematics, Bachelor of Arts with a Concentration in Pure Mathematics Odd Year Admit Four Year Plan

**Freshman****Fall**

|                            |                             |   |
|----------------------------|-----------------------------|---|
| CMST 1110                  | PUBLIC SPEAKING FUNDS       | 3 |
| or CMST 2120               | or ARGUMENTATION AND DEBATE |   |
| ENGL 1150                  | ENGLISH COMPOSITION I       | 3 |
| MATH 1950                  | CALCULUS I                  | 5 |
| World Language Course 1110 |                             | 5 |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits** **16**

**Spring**

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| MATH 1960                            | CALCULUS II                               | 4 |
| World Language Course 1120           |   | 5 |
| General Education Course or Elective |   | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Sophomore****Fall**

|                                      |                               |   |
|--------------------------------------|-------------------------------|---|
| MATH 1970                            | CALCULUS III                  | 4 |
| MATH 2230                            | INTRODUCTION TO ABSTRACT MATH | 3 |
| General Education Course or Elective |                               | 4 |
| World Language Course 2110           |                               | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits** **14**

**Spring**

|                                      |                          |   |
|--------------------------------------|--------------------------|---|
| MATH 2050                            | APPLIED LINEAR ALGEBRA   | 3 |
| MATH 3230                            | INTRODUCTION TO ANALYSIS | 3 |
| General Education Course or Elective |                          | 3 |
| General Education Course or Elective |                          | 3 |
| World Language Course 2120           |                          | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Junior****Fall**

|                                      |                         |   |
|--------------------------------------|-------------------------|---|
| MATH 2350                            | DIFFERENTIAL EQUATIONS  | 3 |
| MATH 4230                            | MATHEMATICAL ANALYSIS I | 3 |
| Coding Course                        |                         | 3 |
| General Education Course or Elective |                         | 3 |
| General Education Course or Elective |                         | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15**

**Spring**

|                           |                |   |
|---------------------------|----------------|---|
| MATH 4050                 | LINEAR ALGEBRA | 3 |
| Elective                  |                | 3 |
| Pure Mathematics Elective |                | 3 |
| Elective                  |                | 3 |
| Elective                  |                | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Senior  
Fall**

|                                       |   |
|---------------------------------------|---|
| Elective                              | 3 |
| MATH 4110          ABSTRACT ALGEBRA I | 3 |
| Pure Mathematics Elective             | 3 |
| Elective                              | 3 |
| General Education Course or Elective  | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|                           |   |
|---------------------------|---|
| Pure Mathematics Elective | 3 |
| Elective                  | 3 |
| Elective                  | 3 |
| Elective                  | 3 |
| Elective                  | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Statistics Concentration

### Mathematics, Bachelor of Arts with a Concentration in Statistics Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                           |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE  |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING             |           |
| or MATH 1130  | QUANTITATIVE LITERACY   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                 |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT  |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                                     |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Mathematics Major with a Concentration in Statistics - 46 Hours Required</b>   |   |           |
| <b>Required Coursework</b>  |   | <b>25</b> |
| MATH 1950   | CALCULUS I (^)  |           |
| MATH 1960   | CALCULUS II (^)   |           |
| MATH 1970   | CALCULUS III (^)  |           |
| MATH 2050   | APPLIED LINEAR ALGEBRA (^)  |           |
| MATH 2230   | INTRODUCTION TO ABSTRACT MATH (^)                                   |           |
| MATH 2350   | DIFFERENTIAL EQUATIONS (^)  |           |
| MATH 3230   | INTRODUCTION TO ANALYSIS (^)  |           |
| <b>Select one of the following</b>  |   | <b>3</b>  |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                              |           |
| MATH 2200   | MATHEMATICAL COMPUTING I (^)<br>Recommended for this concentration) |           |

|   |   |               |
|---|---|---------------|
| MATH 3250   | INTRODUCTION TO NUMERICAL METHODS (^)                 |               |
| <b>Select all of the following Statistics Concentration courses</b>               |   | <b>9</b>      |
| MATH 3200   | MATHEMATICAL COMPUTING II (^)                         |               |
| MATH 4740   | INTRODUCTION TO PROBABILITY AND STATISTICS I (^)      |               |
| MATH 4750   | INTRODUCTION TO PROBABILITY AND STATISTICS II (^)     |               |
| <b>Select at least two the following Statistics Concentration courses</b>         |   | <b>6-9</b>    |
| STAT 4420   | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION (^) |               |
| STAT 4430   | LINEAR MODELS (^)                                     |               |
| STAT 4440   | TIME SERIES ANALYSIS (^)                              |               |
| <b>Select up to one of the following Statistics Concentration courses</b>         |   | <b>0-3</b>    |
| MATH/CSCI 3100  | APPLIED COMBINATORICS (^)                             |               |
| MATH/CSCI 4310  | PROBABILISTIC OPERATIONS RESEARCH MODELS (^)          |               |
| MATH/STAT 4450  | INTRODUCTION TO MACHINE LEARNING AND DATA MINING (^)  |               |
| MATH 4900   | INDEPENDENT STUDIES                                   |               |
| STAT 4410   | INTRODUCTION TO DATA SCIENCE (^)                      |               |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours         |   |               |
| Option 2: Additional General Education Requirements - 18+ hours                   |   |               |
| Additional quantitative literacy - 3 hours  |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |   |               |
| HIST 1000 and HIST 1010 - 6 hours   |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |   |               |
| <b>Bachelor of Arts Language Requirement</b>                                      |   | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |   |               |
| <b>ELECTIVES</b>  |   |               |
| Elective hours as required to reach a total of 120 hours                          |   |               |

## Mathematics, Bachelor of Arts with a Concentration in Statistics Four Year Plan

|                            |                             |                |
|----------------------------|-----------------------------|----------------|
| <b>Freshman</b>            |                             |                |
| <b>Fall</b>                |                             | <b>Credits</b> |
| CMST 1110                  | PUBLIC SPEAKING FUNDS       | 3              |
| or CMST 2120               | or ARGUMENTATION AND DEBATE |                |
| ENGL 1150                  | ENGLISH COMPOSITION I       | 3              |
| MATH 1950                  | CALCULUS I                  | 5              |
| World Language Course 1110 |                             | 5              |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

|                                      |   |           |
|--------------------------------------|---|-----------|
| <b>Credits</b>                       |   | <b>16</b> |
| <b>Spring</b>                        |   |           |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| MATH 1960                            | CALCULUS II                               | 4         |
| General Education Course or Elective |   | 3         |
| Foreign Language Course 1120         |   | 5         |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

|                                      |                        |           |
|--------------------------------------|------------------------|-----------|
| <b>Credits</b>                       |                        | <b>15</b> |
| <b>Sophomore</b>                     |                        |           |
| <b>Fall</b>                          |                        |           |
| MATH 1970                            | CALCULUS III           | 4         |
| MATH 2050                            | APPLIED LINEAR ALGEBRA | 3         |
| General Education Course or Elective |                        | 4         |
| World Language Course 2110           |                        | 3         |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

|                                      |                               |           |
|--------------------------------------|-------------------------------|-----------|
| <b>Credits</b>                       |                               | <b>14</b> |
| <b>Spring</b>                        |                               |           |
| MATH 2230                            | INTRODUCTION TO ABSTRACT MATH | 3         |
| MATH 2350                            | DIFFERENTIAL EQUATIONS        | 3         |
| General Education Course or Elective |                               | 3         |
| General Education Course or Elective |                               | 3         |
| World Language Course 2120           |                               | 3         |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

|                                      |  |           |
|--------------------------------------|--|-----------|
| <b>Credits</b>                       |  | <b>15</b> |
| <b>Junior</b>                        |  |           |
| <b>Fall</b>                          |  |           |
| MATH 2200                            | MATHEMATICAL COMPUTING I                     | 3         |
| MATH 3230                            | INTRODUCTION TO ANALYSIS                     | 3         |
| MATH 4740                            | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

**Spring**

|           |   |   |
|-----------|---|---|
| Elective  |   | 3 |
| MATH 3200 | MATHEMATICAL COMPUTING II                     | 3 |
| MATH 4750 | INTRODUCTION TO PROBABILITY AND STATISTICS II | 3 |

|                                      |   |
|--------------------------------------|---|
| Elective                             | 3 |
| General Education Course or Elective | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** 15

**Senior Fall**

|   |   |
|---|---|
| Elective  | 3 |
| Group A Math course from the 3000-4000 level or upper-level Math course of choice | 3 |
| Group B Math course from the 3000-4000 level or upper-level Math course of choice | 3 |
| Elective  | 3 |
| Elective  | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** 15

**Spring**

|   |   |
|---|---|
| Group A Math course from the 3000-4000 level or upper-level Math course of choice | 3 |
| Group B Math course from the 3000-4000 level or upper-level Math course of choice | 3 |
| Elective  | 3 |
| Elective  | 3 |
| Elective  | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** 15

**Total Credits** 120

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

[www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php](https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php)

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Mathematics, Bachelor of Science

### Mathematics, Bachelor of Science Requirements

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |

Minimum of "C-" required

**Fundamental Skills** 15**Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility** 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Mathematics Major - 46 Hours Required****Required Coursework** 25



|           |                               |
|-----------|-------------------------------|
| MATH 1950 | CALCULUS I (^)                |
| MATH 1960 | CALCULUS II                   |
| MATH 1970 | CALCULUS III                  |
| MATH 2050 | APPLIED LINEAR ALGEBRA        |
| MATH 2230 | INTRODUCTION TO ABSTRACT MATH |
| MATH 2350 | DIFFERENTIAL EQUATIONS        |
| MATH 3230 | INTRODUCTION TO ANALYSIS      |

**Select one of the following** **3**

|           |                                    |
|-----------|------------------------------------|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I |
| MATH 2200 | MATHEMATICAL COMPUTING I           |
| MATH 3250 | INTRODUCTION TO NUMERICAL METHODS  |

**An additional 18 credits of approved 3000/4000 Level MATH/STAT courses (excludes STAT 3000), which must include at least 9 credits at the 4000 Level** **18**

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Requirement** **15**

The Bachelor of Science Degree requires at least 15 hours of advisor-approved, complementary Cognate coursework.

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Mathematics, Bachelor of Science Concentrations

- Applied and Computational Mathematics (p. 220)
- Data Science (p. 222)
- Mathematics Education (p. 224)
- Operations Research (p. 227)
- Pre-Actuarial Mathematics (p. 229)
- Pure Mathematics (p. 231)
- Statistics (p. 234)

## Applied and Computational Mathematics Concentration

### Mathematics, Bachelor of Science with a concentration in Applied and Computational Mathematics Requirements

**Code Title Credits**  
**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills** **15**

**Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Mathematics Major with a Concentration in Applied Mathematics - 46 Hours Required**

**Required Coursework:** **25**

MATH 1950 CALCULUS I (^)

MATH 1960 CALCULUS II (^)

MATH 1970 CALCULUS III (^)

MATH 2050 APPLIED LINEAR ALGEBRA (^)

MATH 2230 INTRODUCTION TO ABSTRACT MATH (^)

MATH 2350 DIFFERENTIAL EQUATIONS (^)

MATH 3230 INTRODUCTION TO ANALYSIS (^)

**Select one of the following** **3**

|  |   |               |
|--|---|---------------|
| CIST 1400  | INTRODUCTION TO COMPUTER SCIENCE I (^)  |               |
| MATH 2200  | MATHEMATICAL COMPUTING I (^)  |               |
| MATH 3250  | INTRODUCTION TO NUMERICAL METHODS (^)   |               |
| <b>Select all of the following Applied Mathematics Concentration courses</b>                                     |   | <b>9</b>      |
| MATH/CSCI 3100   | APPLIED COMBINATORICS (^)   |               |
| MATH/CSCI 4200   | NUMERICAL ANALYSIS (^)  |               |
| MATH 4330  | INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (^)  |               |
| <b>Select three of the following Applied Mathematics Concentration courses</b>                                   |   | <b>9</b>      |
| MATH 3400  | THEORY OF INTEREST (^)  |               |
| MATH/CSCI 4150   | GRAPH THEORY & APPLICATIONS (^)   |               |
| MATH/CSCI 4300   | DETERMINISTIC OPERATIONS RESEARCH MODELS (^)  |               |
| MATH/CSCI 4310   | PROBABILISTIC OPERATIONS RESEARCH MODELS (^)  |               |
| MATH/CSCI 4320   | COMPUTATIONAL OPERATIONS RESEARCH (^)   |               |
| MATH 4350  | ORDINARY DIFFERENTIAL EQUATIONS (* ^)   |               |
| MATH 4400  | THE FINITE ELEMENT METHOD (* ^)   |               |
| MATH 4740  | INTRODUCTION TO PROBABILITY AND STATISTICS I (* ^)  |               |
| MATH 4750  | INTRODUCTION TO PROBABILITY AND STATISTICS II (* ^)   |               |
| MATH 4760  | TOPICS IN APPLIED MATHEMATICS (* ^)   |               |
| MATH 4900  | INDEPENDENT STUDIES (* ^ must be related to applied and computational mathematics)            |               |
| MATH 4970  | SEMINAR IN APPLIED MATHEMATICS (* ^ must be related to applied and computational mathematics) |               |
| *These courses are highly recommended for this concentration.  |   |               |
| <b>College Breadth (choose one option)</b>   |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |   |               |
| Option 2: Additional General Education Requirements - 18+ hours  |   |               |
| Additional quantitative literacy - 3 hours   |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |   |               |
| HIST 1000 and HIST 1010 - 6 hours  |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)                                |   |               |
| <b>Bachelor of Science Cognate Requirement</b>   |   | <b>15</b>     |
| The Bachelor of Science Degree requires at least 15 hours of advisor-approved, complementary Cognate coursework. |   |               |
| <b>ELECTIVES</b>   |   |               |
| Elective hours as required to reach a total of 120 hours   |   |               |

## Mathematics, Bachelor of Science with a concentration in Applied and Computational Mathematics Four Year Plan

### Freshman

| Fall  |  | Credits   |
|---|--|-----------|
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3         |
| MATH 1950   | CALCULUS I   | 5         |
| General Education Course or Elective  |  | 3         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |           |
| <b>Credits</b>  |  | <b>14</b> |

### Spring

|  |   |           |
|--|---|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| MATH 1960  | CALCULUS II                               | 4         |
| General Education Course or Elective   |   | 4         |
| General Education Course or Elective   |   | 3         |
| Elective   |   | 1         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |
| <b>Credits</b>   |   | <b>15</b> |

### Sophomore

| Fall   |                        |           |
|--|------------------------|-----------|
| MATH 1970  | CALCULUS III           | 4         |
| MATH 2050  | APPLIED LINEAR ALGEBRA | 3         |
| General Education Course or Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                        |           |
| <b>Credits</b>   |                        | <b>16</b> |

### Spring

|  |                               |           |
|--|-------------------------------|-----------|
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH | 3         |
| MATH 2350  | DIFFERENTIAL EQUATIONS (*)    | 3         |
| General Education Course or Elective   |                               | 3         |
| General Education Course or Elective   |                               | 3         |
| Elective   |                               | 3         |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                               |           |
| <b>Credits</b>   |                               | <b>15</b> |

**Junior****Fall**

|               |   |   |
|---------------|---|---|
| MATH 3230     | INTRODUCTION TO ANALYSIS                          | 3 |
| MATH 4330     | INTRODUCTION TO PARTIAL<br>DIFFERENTIAL EQUATIONS | 3 |
| Coding Course |   | 3 |
| Elective      |   | 3 |
| Elective      |   | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15**

**Spring**

|                                      |                       |   |
|--------------------------------------|-----------------------|---|
| MATH 3100                            | APPLIED COMBINATORICS | 3 |
| Applied & Computational Math Course  |                       | 3 |
| General Education Course or Elective |                       | 3 |
| Cognate Course                       |                       | 3 |
| Cognate Course                       |                       | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Senior****Fall**

|  |                    |   |
|--|--------------------|---|
| MATH/CSCI 4200   | NUMERICAL ANALYSIS | 3 |
| General Education Course or Elective   |                    | 3 |
| Applied and Computational Math Course or other approved major course from list |                    | 3 |
| Cognate Course   |                    | 3 |
| Cognate Course   |                    | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|                |  |   |
|----------------|--|---|
| Elective       |  | 3 |
| Elective       |  | 3 |
| Elective       |  | 3 |
| Elective       |  | 3 |
| Cognate Course |  | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Data Science Concentration

### Mathematics, Bachelor of Science with a Concentration in Data Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100<br>STAT 1530  | DATA LITERACY AND VISUALIZATION<br>ELEMENTARY STATISTICS  |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Mathematics Major with a Concentration in Data Science - 46 Hours Required**

**Required Coursework 25**

MATH 1950 CALCULUS I (^)

MATH 1960 CALCULUS II

MATH 1970 CALCULUS III

MATH 2050 APPLIED LINEAR ALGEBRA

MATH 2230 INTRODUCTION TO ABSTRACT MATH

MATH 2350 DIFFERENTIAL EQUATIONS

MATH 3230 INTRODUCTION TO ANALYSIS

**Select one of the following 3**

CIST 1400 INTRODUCTION TO COMPUTER SCIENCE I

MATH 2200 MATHEMATICAL COMPUTING I

MATH 3250 INTRODUCTION TO NUMERICAL METHODS

**Select all of the following Data Science Concentration courses 15**

MATH 3200 MATHEMATICAL COMPUTING II (^)  
or CSCI 1620 INTRODUCTION TO COMPUTER SCIENCE II

MATH 4740 INTRODUCTION TO PROBABILITY AND STATISTICS I

MATH 4750 INTRODUCTION TO PROBABILITY AND STATISTICS II

STAT 4410 INTRODUCTION TO DATA SCIENCE

STAT 4420 EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION

**Select one of the following Data Science Concentration courses 3**

MATH/CSCI 4300 DETERMINISTIC OPERATIONS RESEARCH MODELS

MATH/CSCI 4310 PROBABILISTIC OPERATIONS RESEARCH MODELS

MATH/STAT 4450 INTRODUCTION TO MACHINE LEARNING AND DATA MINING

MATH 4900 INDEPENDENT STUDIES

STAT 4430 LINEAR MODELS

STAT 4440 TIME SERIES ANALYSIS

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Requirement 15**

The Bachelor of Science Degree requires at least 15 hours of advisor-approved, complementary Cognate coursework.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Mathematics, Bachelor of Science with a Concentration in Data Science Four Year Plan

**Freshman**

| Fall                                 |                             | Credits |
|--------------------------------------|-----------------------------|---------|
| CMST 1110                            | PUBLIC SPEAKING FUNDS       | 3       |
| or CMST 2120                         | or ARGUMENTATION AND DEBATE |         |
| ENGL 1150                            | ENGLISH COMPOSITION I       | 3       |
| MATH 1950                            | CALCULUS I                  | 5       |
| General Education Course or Elective |                             | 3       |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 14**

**Spring**

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| MATH 1960                            | CALCULUS II                               | 4 |
| General Education Course or Elective |   | 4 |
| General Education Course or Elective |   | 3 |
| Elective                             |   | 1 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Sophomore**

| Fall                                 |                        |   |
|--------------------------------------|------------------------|---|
| MATH 1970                            | CALCULUS III           | 4 |
| MATH 2050                            | APPLIED LINEAR ALGEBRA | 3 |
| General Education Course or Elective |                        | 3 |
| General Education Course or Elective |                        | 3 |
| General Education Course or Elective |                        | 3 |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 16**

**Spring**

|                                      |                               |   |
|--------------------------------------|-------------------------------|---|
| MATH 2230                            | INTRODUCTION TO ABSTRACT MATH | 3 |
| MATH 2350                            | DIFFERENTIAL EQUATIONS        | 3 |
| General Education Course or Elective |                               | 3 |
| General Education Course or Elective |                               | 3 |

|  |           |
|--|-----------|
| Elective   | 3         |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |           |
| <b>Credits</b>   | <b>15</b> |

**Junior**

|  |  |
|--|--|
| <b>Fall</b>  |  |
| MATH 3230  | INTRODUCTION TO ANALYSIS 3                     |
| MATH 4740  | INTRODUCTION TO PROBABILITY AND STATISTICS I 3 |
| Coding Course 1  | 3  |
| Elective   | 3  |
| Elective   | 3  |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |
| <b>Credits</b>   | <b>15</b>                                      |

**Spring**

|  |  |
|--|--|
| MATH 4750  | INTRODUCTION TO PROBABILITY AND STATISTICS II 3                    |
| Cognate Course   | 3  |
| MATH 3200 or CSCI 1620   | MATHEMATICAL COMPUTING II or INTRODUCTION TO COMPUTER SCIENCE II 3 |
| Cognate Course   | 3  |
| Elective   | 3  |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |  |
| <b>Credits</b>   | <b>15</b>  |

**Senior**

|  |                                |
|--|--------------------------------|
| <b>Fall</b>  |                                |
| STAT 4410  | INTRODUCTION TO DATA SCIENCE 3 |
| Data Science Course or Approved Math/STAT course from major list.  | 3                              |
| Cognate Course   | 3                              |
| Cognate Course   | 3                              |
| Elective   | 3                              |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |                                |
| <b>Credits</b>   | <b>15</b>                      |

**Spring**

|  |   |
|--|---|
| STAT 4420  | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION 3 |
| Data Science Course or approved Math/STAT course from major list | 3   |
| Elective   | 3   |
| Elective   | 3   |
| Cognate Course   | 3   |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Mathematics Education Concentration

### Mathematics, Bachelor of Science with a Concentration in Mathematics Education Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |  |           |
| Minimum of "C-" required                                  |  |           |
| <b>Fundamental Skills</b>                                 |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                          |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY      |           |
| <b>Oral Communication – 3 hrs.</b>                        |  |           |
| CMST 1110 or CMST 2120                                    | PUBLIC SPEAKING FUNDS ARGUMENTATION AND DEBATE |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |  |           |

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Mathematics Major with a Concentration in Mathematics Education - 46 Hours Required**

This concentration is recommended for students interested in pursuing a career in Secondary Education. In some cases it is possible to simultaneously earn a B.S. or a B.A. in Math and a B.S. in Secondary Education.

**Required Coursework 25**

|           |                               |
|-----------|-------------------------------|
| MATH 1950 | CALCULUS I (^)                |
| MATH 1960 | CALCULUS II                   |
| MATH 1970 | CALCULUS III                  |
| MATH 2050 | APPLIED LINEAR ALGEBRA        |
| MATH 2230 | INTRODUCTION TO ABSTRACT MATH |
| MATH 2350 | DIFFERENTIAL EQUATIONS        |
| MATH 3230 | INTRODUCTION TO ANALYSIS      |

**Select one of the following 3**

|           |  |
|-----------|--|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I   |
| MATH 2200 | MATHEMATICAL COMPUTING I (Recommended for Mathematics Education Concentration) |
| MATH 3250 | INTRODUCTION TO NUMERICAL METHODS  |

**Select all of the following Mathematics Education Concentration courses 12**

|           |  |
|-----------|--|
| MATH 3640 | MODERN GEOMETRY                              |
| MATH 3850 | HISTORY OF MATHEMATICS                       |
| MATH 4030 | MODERN ALGEBRA                               |
| MATH 4740 | INTRODUCTION TO PROBABILITY AND STATISTICS I |

**Select two of the following Mathematics Education Concentration courses 6**

|           |                              |
|-----------|------------------------------|
| MATH 3100 | APPLIED COMBINATORICS        |
| MATH 3200 | MATHEMATICAL COMPUTING II    |
| MATH 4050 | LINEAR ALGEBRA               |
| MATH 4560 | NUMBER THEORY & CRYPTOGRAPHY |

|   |                          |
|---|--------------------------|
| MATH 4610   | INTRODUCTION TO TOPOLOGY |
| <b>Select all of the following Educator Preparation Program Requirements 27</b> |                          |

TED 2100 EDUCATIONAL FOUNDATIONS (^)

TED 2200 HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (\*\* ^)

or TED 2060 EQUITY, LANGUAGE, AND CULTURAL LITERACY

TED 2380 DEVELOPMENT AND LEARNING IN ADOLESCENCE

TED 2400 PLANNING FOR EFFECTIVE TEACHING

TED 3550 SECONDARY CLASSROOM MANAGEMENT (^)

TED 3690 LITERACY AND LEARNING (^)

TED 4000 SPECIAL METHODS IN THE CONTENT AREA (^)

SPED 3800 DIFFERENTIATION AND INCLUSIVE PRACTICES (^)

**For those who want a Nebraska Math 6-12 Teaching Certificate 12**

TED 4600 CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)

**College Breadth**

College of Arts and Sciences' college breadth requirement satisfied by this major's concentration

**Bachelor of Science Cognate Requirement**

The BS Cognate is satisfied within this concentration.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Mathematics, Bachelor of Science with a Concentration in Mathematics Education Four Year Plan

**Freshman**

| <b>Fall</b>                          |                       | <b>Credits</b> |
|--------------------------------------|-----------------------|----------------|
| ENGL 1150                            | ENGLISH COMPOSITION I | 3              |
| MATH 1950                            | CALCULUS I            | 5              |
| General Education Course or Elective |                       | 4              |
| General Education Course or Elective |                       | 3              |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

| <b>Credits</b>   |  | <b>15</b> |
|--|--|-----------|
| <b>Spring</b>  |  |           |
| CMST 1110<br>or CMST 2120                                    | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3         |
| MATH 1960  | CALCULUS II  | 4         |
| MATH 2050  | APPLIED LINEAR ALGEBRA                               | 3         |
| General Education Course or Elective                         |  | 3         |
| Recommended: Begin studying for Praxis CORE Academic Skills. |  |           |



Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

| <b>Credits</b>   |  | <b>16</b> |
|--|--|-----------|
| <b>Sophomore</b>   |  |           |
| <b>Fall</b>  |  |           |
| MATH 1970  | CALCULUS III   | 4         |
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH  | 3         |
| TED 2100   | EDUCATIONAL FOUNDATIONS  | 3         |
| TED 2200<br>or TED 2060  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3         |
| General Education Course or Elective   |  | 3         |
| Required: Apply for Educator Preparation Program at this time.   |  |           |
| Recommended but not required: Pass the Praxis CORE Academic Skills.  |  |           |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.   |  |           |
| <b>Credits</b>   |  | <b>16</b> |
| <b>Spring</b>  |  |           |
| MATH 3230  | INTRODUCTION TO ANALYSIS   | 3         |
| MATH 3850  | HISTORY OF MATHEMATICS   | 3         |
| TED 2400   | PLANNING FOR EFFECTIVE TEACHING (*)  | 6         |
| TED 2380   | DEVELOPMENT AND LEARNING IN ADOLESCENCE (*)  | 3         |
| *TED 2400 and 2380 must be taken back-to-back, in either a Morning or Afternoon block.   |  |           |
| Required: Pass Praxis CORE Academic Skills by the end of this semester.  |  |           |
| Required: Acceptance into Educator Preparation Program. Must have 2.75 GPA.  |  |           |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.                                     |  |           |
| <b>Credits</b>   |  | <b>15</b> |
| <b>Junior</b>  |  |           |
| <b>Fall</b>  |  |           |
| MATH 2200  | MATHEMATICAL COMPUTING I   | 3         |
| MATH 3640  | MODERN GEOMETRY  | 3         |
| MATH 4740  | INTRODUCTION TO PROBABILITY AND STATISTICS I   | 3         |
| General Education Course or Elective   |  | 3         |
| General Education Course or Elective   |  | 3         |
| Elective   |  | 1         |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |           |
| <b>Credits</b>   |  | <b>16</b> |

**Spring**

|  |   |   |
|--|---|---|
| MATH/CSCI 3100<br>or MATH 4560<br>or MATH 4050   | APPLIED COMBINATORICS<br>or NUMBER THEORY & CRYPTOGRAPHY<br>or LINEAR ALGEBRA | 3 |
| MATH 3200  | MATHEMATICAL COMPUTING II   | 3 |
| TED 3550   | SECONDARY CLASSROOM MANAGEMENT (*)  | 3 |
| TED 3690   | LITERACY AND LEARNING (*)   | 3 |
| General Education Course or Elective   |   | 3 |
| *TED 3550 and TED 3690 must be taken back-to-back, in either a Morning or Afternoon block.   |   |   |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |   |   |

| <b>Credits</b>   |  | <b>15</b>  |
|--|--|------------|
| <b>Senior</b>  |  |            |
| <b>Fall</b>  |  |            |
| MATH 2350  | DIFFERENTIAL EQUATIONS                                       | 3          |
| MATH 4030  | MODERN ALGEBRA   | 3          |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES (*)                  | 3          |
| TED 4000   | SPECIAL METHODS IN THE CONTENT AREA                          | 3          |
| General Education Course or Elective   |  | 3          |
| *SPED 3800: Must be taken concurrently with TED 4000 or TED 3550   |  |            |
| Recommended but not required: Pass Praxis II.  |  |            |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |  |            |
| <b>Credits</b>   |  | <b>15</b>  |
| <b>Spring</b>  |  |            |
| TED 4600   | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12         |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.   |  |            |
| <b>Credits</b>   |  | <b>12</b>  |
| <b>Total Credits</b>   |  | <b>120</b> |

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://>

[www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php](http://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php)

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** TED 2100 and TED 2200 require a 2.50 GPA. TED 2380 and TED 2400 as well as Admission into the Teacher Prep Program require a 2.75 GPA.

**Graduation Requirements:** 2.75 GPA.

# Operations Research Concentration

## Mathematics, Bachelor of Science with a Concentration in Operations Research Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |

## Mathematics Major with a Concentration in Operations Research - 46 Hours Required

|   |   |               |
|---|---|---------------|
| <b>Required Coursework</b>  |   | <b>25</b>     |
| MATH 1950   | CALCULUS I (^)  |               |
| MATH 1960   | CALCULUS II   |               |
| MATH 1970   | CALCULUS III  |               |
| MATH 2050   | APPLIED LINEAR ALGEBRA                                      |               |
| MATH 2230   | INTRODUCTION TO ABSTRACT MATH                               |               |
| MATH 2350   | DIFFERENTIAL EQUATIONS                                      |               |
| MATH 3230   | INTRODUCTION TO ANALYSIS                                    |               |
| <b>Select one of the following-</b>   |   | <b>3</b>      |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I                          |               |
| MATH 2200   | MATHEMATICAL COMPUTING I                                    |               |
| MATH 3250   | INTRODUCTION TO NUMERICAL METHODS                           |               |
| <b>Select all of the following Operations Research Concentration courses</b>      |   | <b>15</b>     |
| MATH 3200   | MATHEMATICAL COMPUTING II (Requires MATH 2200 or CIST 1400) |               |
| or CSCI 1620  | INTRODUCTION TO COMPUTER SCIENCE II                         |               |
| MATH/CSCI 4300  | DETERMINISTIC OPERATIONS RESEARCH MODELS                    |               |
| MATH/CSCI 4310  | PROBABILISTIC OPERATIONS RESEARCH MODELS                    |               |
| MATH/CSCI 4320  | COMPUTATIONAL OPERATIONS RESEARCH                           |               |
| MATH 4740   | INTRODUCTION TO PROBABILITY AND STATISTICS I                |               |
| or STAT 3800  | APPLIED ENGINEERING PROBABILITY AND STATISTICS              |               |
| <b>Select one the following Operations Research Concentration courses</b>         |   | <b>3</b>      |
| MATH/CSCI 4150  | GRAPH THEORY & APPLICATIONS                                 |               |
| MATH/STAT 4450  | INTRODUCTION TO MACHINE LEARNING AND DATA MINING            |               |
| MATH 4750   | INTRODUCTION TO PROBABILITY AND STATISTICS II               |               |
| MATH 4900   | INDEPENDENT STUDIES   |               |
| STAT 4410   | INTRODUCTION TO DATA SCIENCE                                |               |
| STAT 4420   | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION           |               |
| STAT 4430   | LINEAR MODELS   |               |
| STAT 4440   | TIME SERIES ANALYSIS  |               |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours         |   |               |
| Option 2: Additional General Education Requirements - 18+ hours                   |   |               |
| Additional quantitative literacy - 3 hours  |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |   |               |
| HIST 1000 and HIST 1010 - 6 hours   |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |   |               |
| <b>Bachelor Science Cognate Requirement</b>                                       |   | <b>15</b>     |

The Bachelor of Science Degree requires at least 15 hours of advisor-approved, complementary Cognate coursework.

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Mathematics, Bachelor of Science with a Concentration in Operations Research Four Year Plan

### Freshman

| Fall  |  | Credits   |
|---|--|-----------|
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3         |
| MATH 1950   | CALCULUS I   | 5         |
| General Education Course or Elective  |  | 3         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |           |
| <b>Credits</b>  |  | <b>14</b> |

### Spring

|  |   |           |
|--|---|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| MATH 1960  | CALCULUS II                               | 4         |
| General Education Course or Elective   |   | 3         |
| General Education Course or Elective   |   | 4         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |
| Elective   |   | 1         |
| <b>Credits</b>   |   | <b>15</b> |

### Sophomore

| Fall   |                        | Credits   |
|--|------------------------|-----------|
| MATH 1970  | CALCULUS III           | 4         |
| MATH 2050  | APPLIED LINEAR ALGEBRA | 3         |
| Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| General Education Course or Elective   |                        | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                        |           |
| <b>Credits</b>   |                        | <b>16</b> |

### Spring

|                                      |                               |   |
|--------------------------------------|-------------------------------|---|
| MATH 2230                            | INTRODUCTION TO ABSTRACT MATH | 3 |
| MATH 2350                            | DIFFERENTIAL EQUATIONS        | 3 |
| Elective                             |                               | 3 |
| General Education Course or Elective |                               | 3 |
| General Education Course or Elective |                               | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits** **15**

### Junior

#### Fall

|                 |  |   |
|-----------------|--|---|
| MATH 3230       | INTRODUCTION TO ANALYSIS                     | 3 |
| MATH/CSCI 4300  | DETERMINISTIC OPERATIONS RESEARCH MODELS     | 3 |
| MATH 4740       | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3 |
| Coding Course 1 |  | 3 |
| Elective        |  | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15**

#### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| MATH 3200                            | MATHEMATICAL COMPUTING II                | 3 |
| MATH/CSCI 4310                       | PROBABILISTIC OPERATIONS RESEARCH MODELS | 3 |
| General Education Course or Elective |  | 3 |
| Cognate                              |  | 3 |
| Elective                             |  | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

### Senior

#### Fall

|                                       |  |   |
|---------------------------------------|--|---|
| Elective                              |  | 3 |
| Operations Research or Cognate Course |  | 3 |
| Cognate                               |  | 3 |
| Cognate                               |  | 3 |
| Elective                              |  | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

#### Spring

|                                       |                                   |   |
|---------------------------------------|-----------------------------------|---|
| MATH/CSCI 4320                        | COMPUTATIONAL OPERATIONS RESEARCH | 3 |
| Operations Research or Cognate Course |                                   | 3 |
| Cognate                               |                                   | 3 |
| Elective                              |                                   | 3 |
| Elective                              |                                   | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Pre-Actuarial Mathematics Concentration

### Mathematics, Bachelor of Science with a Concentration in Pre-Actuarial Mathematics Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

#### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Mathematics Major with a Concentration in Pre-Actuarial Mathematics - 46 Hours Required

#### Required Coursework **25**

|           |                               |
|-----------|-------------------------------|
| MATH 1950 | CALCULUS I (^)                |
| MATH 1960 | CALCULUS II                   |
| MATH 1970 | CALCULUS III                  |
| MATH 2050 | APPLIED LINEAR ALGEBRA        |
| MATH 2230 | INTRODUCTION TO ABSTRACT MATH |
| MATH 2350 | DIFFERENTIAL EQUATIONS        |
| MATH 3230 | INTRODUCTION TO ANALYSIS      |

#### Select one of the following **3**

|           |                                    |
|-----------|------------------------------------|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I |
| MATH 2200 | MATHEMATICAL COMPUTING I           |
| MATH 3250 | INTRODUCTION TO NUMERICAL METHODS  |

#### Select all of the following Pre-Actuarial Mathematics Concentration courses **18**

|                |   |
|----------------|---|
| MATH 3200      | MATHEMATICAL COMPUTING II (^)                 |
| MATH 3400      | THEORY OF INTEREST                            |
| MATH/CSCI 4310 | PROBABILISTIC OPERATIONS RESEARCH MODELS      |
| or STAT 4430   | LINEAR MODELS                                 |
| MATH 4740      | INTRODUCTION TO PROBABILITY AND STATISTICS I  |
| MATH 4750      | INTRODUCTION TO PROBABILITY AND STATISTICS II |
| STAT 4440      | TIME SERIES ANALYSIS                          |

#### College Breadth (choose one option) **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Requirement 15**

The Bachelor of Science Degree requires at least 15 hours of advisor-approved, complementary Cognate coursework.

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Mathematics, Bachelor of Science with a Concentration in Pre-Actuarial Mathematics Four Year Plan

### Freshman

| Fall  |                             | Credits   |
|---|-----------------------------|-----------|
| CMST 1110   | PUBLIC SPEAKING FUNDS       | 3         |
| or CMST 2120  | or ARGUMENTATION AND DEBATE |           |
| ENGL 1150   | ENGLISH COMPOSITION I       | 3         |
| MATH 1950   | CALCULUS I                  | 5         |
| General Education Course or Elective  |                             | 3         |
| Elective  |                             | 1         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |                             |           |
| <b>Credits</b>  |                             | <b>15</b> |

### Spring

|  |   |           |
|--|---|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| MATH 1960  | CALCULUS II                               | 4         |
| General Education Course or Elective   |   | 3         |
| General Education Course or Elective   |   | 4         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |
| <b>Credits</b>   |   | <b>14</b> |

### Sophomore

| Fall                                 |                               | Credits |
|--------------------------------------|-------------------------------|---------|
| MATH 1970                            | CALCULUS III                  | 4       |
| MATH 2230                            | INTRODUCTION TO ABSTRACT MATH | 3       |
| General Education Course or Elective |                               | 3       |
| General Education Course or Elective |                               | 3       |
| Cognate Course                       |                               | 3       |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

| Credits                              |                              | 16 |
|--------------------------------------|------------------------------|----|
| Spring                               |                              |    |
| MATH 2050                            | APPLIED LINEAR ALGEBRA       | 3  |
| MATH 3230                            | INTRODUCTION TO ANALYSIS (*) | 3  |
| General Education Course or Elective |                              | 3  |
| General Education Course or Elective |                              | 3  |
| Elective                             |                              | 3  |

Student should consider taking the Exam FM through the Society of Actuaries the summer following this semester.

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

| Credits                              |  | 15 |
|--------------------------------------|--|----|
| Junior                               |  |    |
| Fall                                 |  |    |
| MATH 2200                            | MATHEMATICAL COMPUTING I                     | 3  |
| MATH 2350                            | DIFFERENTIAL EQUATIONS                       | 3  |
| MATH 3400                            | THEORY OF INTEREST                           | 3  |
| MATH 4740                            | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3  |
| General Education Course or Elective |  | 3  |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

| Credits        |   | 15 |
|----------------|---|----|
| Spring         |   |    |
| MATH 3200      | MATHEMATICAL COMPUTING II                     | 3  |
| MATH/CSCI 4310 | PROBABILISTIC OPERATIONS RESEARCH MODELS      | 3  |
| MATH 4750      | INTRODUCTION TO PROBABILITY AND STATISTICS II | 3  |
| Cognate Course |   | 3  |
| Elective       |   | 3  |

Student should consider taking Exam P through the Society of Actuaries the summer following this semester.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| Credits        |               | 15 |
|----------------|---------------|----|
| Senior         |               |    |
| Fall           |               |    |
| STAT 4430      | LINEAR MODELS | 3  |
| Elective       |               | 3  |
| Elective       |               | 3  |
| Cognate Course |               | 3  |
| Cognate Course |               | 3  |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

| Credits  |                      | 15  |
|--|----------------------|-----|
| <b>Spring</b>  |                      |     |
| STAT 4440  | TIME SERIES ANALYSIS | 3   |
| Cognate Course   |                      | 3   |
| Cognate Course   |                      | 3   |
| Elective   |                      | 3   |
| Elective   |                      | 3   |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |                      |     |
| Credits  |                      | 15  |
| Total Credits  |                      | 120 |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Pure Mathematics Concentration

### Mathematics, Bachelor of Science with a Concentration in Pure Mathematics Requirement s

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |
| Minimum of "C-" required                                  |       |         |

#### Fundamental Skills 15

##### Writing – 6 hrs.

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

##### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

##### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

##### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Mathematics Major with a Concentration in Pure Mathematics - 46 Hours Required

##### Required Coursework 25

|           |                                   |
|-----------|-----------------------------------|
| MATH 1950 | CALCULUS I (^)                    |
| MATH 1960 | CALCULUS II (^)                   |
| MATH 1970 | CALCULUS III (^)                  |
| MATH 2050 | APPLIED LINEAR ALGEBRA (^)        |
| MATH 2230 | INTRODUCTION TO ABSTRACT MATH (^) |
| MATH 2350 | DIFFERENTIAL EQUATIONS (^)        |
| MATH 3230 | INTRODUCTION TO ANALYSIS (^)      |

##### Select one of the following 3

|           |  |
|-----------|--|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I (^) |
| MATH 2200 | MATHEMATICAL COMPUTING I (^)           |
| MATH 3250 | INTRODUCTION TO NUMERICAL METHODS (^)  |

##### Select all of the following Pure Mathematics Concentration courses 9

|           |                             |
|-----------|-----------------------------|
| MATH 4050 | LINEAR ALGEBRA (^)          |
| MATH 4110 | ABSTRACT ALGEBRA I (^)      |
| MATH 4230 | MATHEMATICAL ANALYSIS I (^) |

##### Select three of the following Pure Mathematics Concentration courses 1

|           |                     |
|-----------|---------------------|
| MATH 3640 | MODERN GEOMETRY (^) |
|-----------|---------------------|



|                |   |
|----------------|---|
| MATH/CSCI 4010 | INTRODUCTION TO THE THEORY OF RECURSIVE FUNCTIONS (^) |
| MATH 4120      | ABSTRACT ALGEBRA II (^ 2)                             |
| MATH/CSCI 4150 | GRAPH THEORY & APPLICATIONS (^)                       |
| MATH 4240      | MATHEMATICAL ANALYSIS II (^ 3)                        |
| MATH 4270      | COMPLEX ANALYSIS (^ 4)                                |
| MATH 4330      | INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (^ 5)  |
| MATH 4350      | ORDINARY DIFFERENTIAL EQUATIONS (^)                   |
| MATH/CSCI 4560 | NUMBER THEORY & CRYPTOGRAPHY (^)                      |
| MATH 4610      | INTRODUCTION TO TOPOLOGY (^ 1)                        |
| MATH 4900      | INDEPENDENT STUDIES                                   |

<sup>1</sup> Course names followed by numbers (1) - (5) indicate most appropriate electives for students planning to apply to a PhD. program in Mathematics in order of importance, with (1) indicating signifying the most important.

| Code   | Title | Credits       |
|--|-------|---------------|
| <b>College Breadth (choose one option)</b>   |       | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |       |               |
| Option 2: Additional General Education Requirements - 15-30+ hours   |       |               |
| Additional quantitative literacy - 3 hours   |       |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |       |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |       |               |
| HIST 1000 and HIST 1010 - 6 hours  |       |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |       |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)                                |       |               |
| <b>Bachelor of Science Cognate Requirement</b>   |       | <b>15</b>     |
| The Bachelor of Science Degree requires at least 15 hours of advisor-approved, complementary Cognate coursework. |       |               |
| <b>ELECTIVES</b>   |       |               |
| Elective hours as required to reach a total of 120 hours   |       |               |

## Mathematics, Bachelor of Science with a Concentration in Pure Mathematics , Even Year Admit Four Year Plan

| Freshman                             |  |                |
|--------------------------------------|--|----------------|
| <b>Fall</b>                          |  | <b>Credits</b> |
| CMST 1110<br>or CMST 2120            | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3              |
| ENGL 1150                            | ENGLISH COMPOSITION I                                | 3              |
| MATH 1950                            | CALCULUS I   | 5              |
| General Education Course or Elective |  | 3              |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

| Credits  |   | <b>14</b> |
|--|---|-----------|
| <b>Spring</b>  |   |           |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| MATH 1960  | CALCULUS II                               | 4         |
| General Education Course or Elective   |   | 3         |
| General Education Course or Elective   |   | 4         |
| Elective   |   | 1         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |

| Credits  |                               | <b>15</b> |
|--|-------------------------------|-----------|
| <b>Sophomore</b>   |                               |           |
| <b>Fall</b>  |                               |           |
| MATH 1970  | CALCULUS III                  | 4         |
| MATH 2050  | APPLIED LINEAR ALGEBRA        | 3         |
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH | 3         |
| General Education Course or Elective   |                               | 3         |
| General Education Course or Elective   |                               | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                               |           |

| Credits  |                          | <b>16</b> |
|--|--------------------------|-----------|
| <b>Spring</b>  |                          |           |
| MATH 2350  | DIFFERENTIAL EQUATIONS   | 3         |
| MATH 3230  | INTRODUCTION TO ANALYSIS | 3         |
| MATH 4050  | LINEAR ALGEBRA           | 3         |
| General Education Course or Elective   |                          | 3         |
| Elective   |                          | 3         |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                          |           |

| Credits  |                    | <b>15</b> |
|--|--------------------|-----------|
| <b>Junior</b>  |                    |           |
| <b>Fall</b>  |                    |           |
| MATH 4110  | ABSTRACT ALGEBRA I | 3         |
| Cognate  |                    | 3         |
| General Education Course or Elective   |                    | 3         |
| Coding Course  |                    | 3         |
| General Education Course or Elective   |                    | 3         |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |                    |           |

**Credits** **15**

**Spring**

|                           |  |   |
|---------------------------|--|---|
| CSCI 1620<br>or MATH 3200 | INTRODUCTION TO COMPUTER<br>SCIENCE II<br>or MATHEMATICAL COMPUTING II | 3 |
|---------------------------|--|---|

|                         |   |
|-------------------------|---|
| Pure Mathematics Course | 3 |
| Cognate                 | 3 |
| Elective                | 3 |
| Elective                | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Senior****Fall**

|                                      |                         |   |
|--------------------------------------|-------------------------|---|
| MATH 4230                            | MATHEMATICAL ANALYSIS I | 3 |
| Cognate                              |                         | 3 |
| General Education Course or Elective |                         | 3 |
| Elective                             |                         | 3 |
| Elective                             |                         | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|                         |   |
|-------------------------|---|
| Pure Mathematics Course | 3 |
| Cognate                 | 3 |
| Cognate                 | 3 |
| Elective                | 3 |
| Elective                | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits** **14**

**Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| ENGL 1160                            | COLLEGE RESEARCH AND<br>INFORMATION LITERACY | 3 |
| MATH 1960                            | CALCULUS II                                  | 4 |
| Elective                             |  | 1 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 4 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Sophomore****Fall**

|                                      |                               |   |
|--------------------------------------|-------------------------------|---|
| MATH 1970                            | CALCULUS III                  | 4 |
| MATH 2050                            | APPLIED LINEAR ALGEBRA        | 3 |
| MATH 2230                            | INTRODUCTION TO ABSTRACT MATH | 3 |
| General Education Course or Elective |                               | 3 |
| General Education Course or Elective |                               | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits** **16**

**Spring**

|                                      |                          |   |
|--------------------------------------|--------------------------|---|
| MATH 2350                            | DIFFERENTIAL EQUATIONS   | 3 |
| MATH 3230                            | INTRODUCTION TO ANALYSIS | 3 |
| General Education Course or Elective |                          | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

|          |   |
|----------|---|
| Elective | 3 |
| Elective | 3 |

**Credits** **15**

**Junior****Fall**

|                                      |                         |   |
|--------------------------------------|-------------------------|---|
| MATH 4230                            | MATHEMATICAL ANALYSIS I | 3 |
| Coding Course                        |                         | 3 |
| Cognate                              |                         | 3 |
| General Education Course or Elective |                         | 3 |
| General Education Course or Elective |                         | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15**

## Mathematics, Bachelor of Science with a Concentration in Pure Mathematics , Odd Year Admit Four Year Plan

**Freshman****Fall**

|                                      |  |   |
|--------------------------------------|--|---|
| CMST 1110<br>or CMST 2120            | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3 |
| ENGL 1150                            | ENGLISH COMPOSITION I                                | 3 |
| MATH 1950                            | CALCULUS I   | 5 |
| General Education Course or Elective |  | 3 |

**Credits**

**Spring**

|                         |                |   |
|-------------------------|----------------|---|
| MATH 4050               | LINEAR ALGEBRA | 3 |
| Pure Mathematics Course |                | 3 |
| Cognate                 |                | 3 |
| Cognate                 |                | 3 |
| Elective                |                | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** 15

**Senior****Fall**

|                         |                    |   |
|-------------------------|--------------------|---|
| MATH 4110               | ABSTRACT ALGEBRA I | 3 |
| Pure Mathematics Course |                    | 3 |
| Elective                |                    | 3 |
| Elective                |                    | 3 |
| Elective                |                    | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** 15

**Spring**

|                         |  |   |
|-------------------------|--|---|
| Pure Mathematics Course |  | 3 |
| Cognate                 |  | 3 |
| Cognate                 |  | 3 |
| Elective                |  | 3 |
| Elective                |  | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** 15

**Total Credits** 120

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Statistics Concentration

### Mathematics, Bachelor of Science with a Concentration in Statistics Requirements

**Code** **Title** **Credits**

#### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

#### Fundamental Skills 15

**Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Mathematics Major with a Concentration in Statistics - 46 Hours Required

#### Required Coursework 25

MATH 1950 CALCULUS I (^)

MATH 1960 CALCULUS II (^)

MATH 1970 CALCULUS III (^)

MATH 2050 APPLIED LINEAR ALGEBRA (^)

|  |  |               |
|--|--|---------------|
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH (^)                                  |               |
| MATH 2350  | DIFFERENTIAL EQUATIONS (^)   |               |
| MATH 3230  | INTRODUCTION TO ANALYSIS (^)                                       |               |
| <b>Select one of the following</b>   |  | <b>3</b>      |
| CIST 1400  | INTRODUCTION TO COMPUTER SCIENCE I (^)                             |               |
| MATH 2200  | MATHEMATICAL COMPUTING I (^<br>Recommended for this concentration) |               |
| MATH 3250  | INTRODUCTION TO NUMERICAL METHODS (^)                              |               |
| <b>Select all of the following Statistics Concentration courses</b>  |  | <b>9</b>      |
| MATH 3200  | MATHEMATICAL COMPUTING II (^)                                      |               |
| MATH 4740  | INTRODUCTION TO PROBABILITY AND STATISTICS I (^)                   |               |
| MATH 4750  | INTRODUCTION TO PROBABILITY AND STATISTICS II (^)                  |               |
| <b>Select at least two the following Statistics Concentration courses</b>  |  | <b>6-9</b>    |
| STAT 4420  | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION (^)              |               |
| STAT 4430  | LINEAR MODELS (^)  |               |
| STAT 4440  | TIME SERIES ANALYSIS (^)   |               |
| <b>Select up to one of the following Statistics Concentration courses</b>  |  | <b>0-3</b>    |
| MATH/CSCI 3100   | APPLIED COMBINATORICS (^)  |               |
| MATH/CSCI 4310   | PROBABILISTIC OPERATIONS RESEARCH MODELS (^)                       |               |
| MATH 4450  | INTRODUCTION TO MACHINE LEARNING AND DATA MINING (^)               |               |
| or STAT 4450   | INTRODUCTION TO MACHINE LEARNING AND DATA MINING                   |               |
| MATH 4900  | INDEPENDENT STUDIES  |               |
| STAT 4410  | INTRODUCTION TO DATA SCIENCE (^)                                   |               |
| <b>College Breadth (choose one option)</b>   |  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |  |               |
| Option 2: Additional General Education Requirements - 18+ hours  |  |               |
| Additional quantitative literacy - 3 hours   |  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |  |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |  |               |
| HIST 1000 and HIST 1010 - 6 hours  |  |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |  |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)                                |  |               |
| <b>Bachelor of Science Cognate Requirement</b>   |  | <b>15</b>     |
| The Bachelor of Science Degree requires at least 15 hours of advisor-approved, complementary Cognate coursework. |  |               |
| <b>ELECTIVES</b>   |  |               |
| Elective hours as required to reach a total of 120 hours   |  |               |

## Mathematics, Bachelor of Science with a Concentration in Statistics Four Year Plan

### Freshman

| Fall  |  | Credits   |
|---|--|-----------|
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3         |
| MATH 1950   | CALCULUS I   | 5         |
| General Education Course or Elective  |  | 3         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |           |
| <b>Credits</b>  |  | <b>14</b> |

### Spring

|  |   |           |
|--|---|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| MATH 1960  | CALCULUS II                               | 4         |
| General Education Course or Elective   |   | 3         |
| General Education Course or Elective   |   | 4         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |
| Elective   |   | 1         |
| <b>Credits</b>   |   | <b>15</b> |

### Sophomore

#### Fall

|  |                        |   |
|--|------------------------|---|
| MATH 1970  | CALCULUS III           | 4 |
| MATH 2050  | APPLIED LINEAR ALGEBRA | 3 |
| General Education Course or Elective   |                        | 3 |
| General Education Course or Elective   |                        | 3 |
| General Education Course or Elective   |                        | 3 |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                        |   |

| Credits  |                               | 16 |
|--|-------------------------------|----|
| <b>Spring</b>  |                               |    |
| MATH 2230  | INTRODUCTION TO ABSTRACT MATH | 3  |
| MATH 2350  | DIFFERENTIAL EQUATIONS        | 3  |
| General Education Course or Elective   |                               | 3  |
| Elective   |                               | 3  |
| Elective   |                               | 3  |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                               |    |

Credits

15

**Junior****Fall**

|                                      |  |   |
|--------------------------------------|--|---|
| MATH 2200                            | MATHEMATICAL COMPUTING I                     | 3 |
| MATH 3230                            | INTRODUCTION TO ANALYSIS                     | 3 |
| MATH 4740                            | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3 |
| General Education Course or Elective |  | 3 |
| Elective                             |  | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15**

**Spring**

|           |   |   |
|-----------|---|---|
| MATH 3200 | MATHEMATICAL COMPUTING II                     | 3 |
| MATH 4750 | INTRODUCTION TO PROBABILITY AND STATISTICS II | 3 |
| Cognate   |   | 3 |
| Cognate   |   | 3 |
| Elective  |   | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Senior****Fall**

|                           |  |   |
|---------------------------|--|---|
| Group A Course or Cognate |  | 3 |
| Group B Course or Cognate |  | 3 |
| Cognate                   |  | 3 |
| Elective                  |  | 3 |
| Elective                  |  | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|                           |  |   |
|---------------------------|--|---|
| Group A Course or Cognate |  | 3 |
| Group B Course or Cognate |  | 3 |
| Cognate                   |  | 3 |
| Elective                  |  | 3 |
| Elective                  |  | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Mathematics Minor

### Mathematics, Minor Requirements

All coursework must be completed with a grade of C- or better. At least one MATH course 3000-level or higher or STAT course 3800 level or higher must be completed at UNO to establish residency. A minor in mathematics may be obtained by successful completion of 18-19 credits in mathematics courses consisting of:

| Code  | Title       | Credits    |
|---|-------------|------------|
| MATH 1950   | CALCULUS I  | 5          |
| MATH 1960   | CALCULUS II | 4          |
| <b>Any two MATH/STAT courses at the 1970 level or above</b>       |             | <b>6-7</b> |
| <b>One additional MATH/STAT course at the 3000 level or above</b> |             | <b>3</b>   |

<sup>1</sup> MATH 2200, MATH 3200, and STAT 3000 do not count towards the Mathematics Minor.

<sup>2</sup> ECEN 305 will count towards the Mathematics Minor for Engineering majors.

If planned correctly, some disciplines require few, if any, additional math courses beyond what is required for the major. Please contact your academic advisor to discuss how a Mathematics Minor could be integrated into your degree plans.

## Medical Humanities

### General Information

The Medical Humanities major helps students increase their understanding of the nature of illness, health, wellness, healing, and medicine by exploring these topics in three blocks of classes that share a commonality of focus. The Major in Medical Humanities is intentionally flexible and

interdisciplinary, reflecting both the needs of students and the nature of the field.

To ensure cohesion, all majors take the introductory course, a Medical Humanities Commons course, which is an interdisciplinary examination of a single relevant topic (e.g. "Suffering" or "Compliance") and a Capstone course in Medical Humanities that includes a project integrating their chosen coursework with community engagement.

**Block 1: Inclusivity & Diversity:** Courses in this block allow students to explore how race, ethnicity, gender, sex, age and income affect the experience of health, illness and medicine. Demographically, the population of the United States is aging and diversifying and this affects who seeks health care and how they interact with the system. Poverty has an enormous impact on the health and well-being of individuals, communities and populations. Students pursuing careers in health care will therefore benefit from a foundational understanding of these concepts and perspectives.

**Block 2: Ethics, Religion & Culture:** Courses in this block provide students with a foundation in the values, beliefs and concepts that define how health, illness, disease and medicine are experienced at a social and cultural level by individuals and societies. It prepares students to confront ethical questions of meaning and value that arise in the context of medical research and practice. Spirituality and religion for many patients, practitioners and communities are the heart of health care. Exploring cross-cultural perspectives on medical beliefs, practices and systems encourages students to reflect on the diverse ways humans approach, experience and solve problems of health and health care delivery.

**Block 3: Narrative Medicine, Communication & Fine Arts:** Courses in this block allow students the opportunity to explore different ways of observing, communicating and understanding health, illness and healing. Narrative medicine encourages students to write, reflect and find meaning in their own and others experiences with health and medicine. Literature introduces students to life situations associated with illness and disability in an intimate and intuitive way. Communication skills are essential for interprofessional teams, and working with clients and patients. Music, visual art and drama courses encourage students to express and experience the human condition in unique ways, as well as improving listening, observation and communication skills.

## Other Information

All coursework taken for the medical humanities major must be completed with a grade of "C-" or better.

## Residency

A maximum of three credit hours can be transferred from another university to count towards the medical humanities major, unless the Director agrees to additional credit transfer.

## Contact Information

Dustin Pendley  
dpendley@unomaha.edu

## Website (<http://www.unomaha.edu/college-of-arts-and-sciences/medical-humanities/>)

- Medical Humanities, Bachelor of Arts (p. 237)
- Medical Humanities, Bachelor of Science (p. 240)
- Medical Humanities Minor (p. 243)

An education with a humanities perspective on health and medicine shapes individuals to think critically, compassionately and knowledgeably about the human condition, appreciate and respect diverse communities, and develop reflective and resilient habits of the mind. A major in Medical Humanities prepares graduates for health care occupations through its focus on the

humanistic aspects of medicine that promote patient centered care and resilient professionals.

Students could benefit from this program if they are planning careers in

- medicine
- public health
- mental health
- counseling
- nursing
- health education
- bioethics
- health care administration
- health communications and public relations
- patient advocacy
- human resources
- wellness
- chaplaincy

## Medical Humanities, Bachelor of Arts

To obtain a B.A. with a major in Medical Humanities, a student must fulfill university, college, and program requirements.

## Medical Humanities, Bachelor of Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |



**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Medical Humanities Major - 30 Hours Required****Required Coursework 9**

MEDH 1000 INTRODUCTION TO MEDICAL HUMANITIES (\*\*)

MEDH 3000 MEDICAL HUMANITIES COMMONS (^)

MEDH 4900 CAPSTONE IN MEDICAL HUMANITIES (^)

**Choose one 3-credit course from the following 3**

PHIL 2010 SYMBOLIC LOGIC

PSYC 3130 STATISTICS FOR THE BEHAVIORAL SCIENCES (^)

SOC 2130 SOCIAL STATISTICS (^)

**Six courses, or 18 credit hours, must be chosen from the following three areas. Four of the six courses (12 credit hours) must be at the 3000/4000 Level****Choose two 3-credit courses from the following (Inclusivity & Diversity) 6**

GEOG 3020 HEALTH &amp; MEDICAL GEOGRAPHY (^)

GERO 4480 GLOBAL AGEING

GERO/WGST 4550 HEALTH ASPECTS OF AGING

MEDH 4000 TOPICS IN MEDICAL HUMANITIES (^ TOPIC WITH A BLOCK 1 ATTRIBUTE)

MEDH 4990 INDEPENDENT STUDY IN MEDICAL HUMANITIES (^ Inclusivity &amp; Diversity Topic)

PHHB/GERO 3070 DEATH AND DYING

PHIL 3480 PHILOSOPHY OF RACE (\*\* ^)

PHIL 3490 GENDER AND PHILOSOPHY (\*\* ^)

PSYC 2500 LIFESPAN PSYCHOLOGY (^)

SOC 3820 MEDICAL SOCIOLOGY (^)

SOC 4440 HUMAN CONNECTION, LONELINESS, &amp; HEALTH (^)

SOC/PHHB 4700 WOMEN'S HEALTH AND ISSUES OF DIVERSITY

SOC 4800 CONTEMPORARY TOPICS IN SOCIOLOGY (^ HEALTH &amp; STRATIFICATION)

SOC 4830 SOCIOLOGY OF MENTAL HEALTH &amp; ILLNESS (^)

SPAN 1100 ELEMENTARY SPANISH I FOR HEALTHCARE PROFESSIONALS

SPAN/LLS 4510 ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES (^)

**Choose two 3-credit courses from the following (Ethics, Religion & Culture) 6**

ANTH 4230 ETHNOMEDICINES OF THE AMERICAS (^)

ANTH 4240 MEDICAL ANTHROPOLOGY

ANTH/NAMS 4270 DECOLONIZING NATIVE AMERICAN HEALTH (^)

ANTH/MEDH 4280 CLINICAL ETHNOGRAPHY (^)

ANTH/MEDH 4290 DRUG USE, ADDICTION, &amp; CULTURE (^)

ANTH 4920 SEMINAR IN ANTHROPOLOGY (^ FREE HEALTHCARE, CLINICAL CULTURES, AND HEALTH DISPARITIES)

HIST/MEDH 2030 HISTORY OF MEDICINE: FROM ANTIQUITY TO THE PRESENT (\*\* ^)

MEDH 4000 TOPICS IN MEDICAL HUMANITIES (^ Ethics, Religion &amp; Culture Topic)

PHIL/MEDH 2300 BIOMEDICAL ETHICS

PHIL/MEDH 3450 PHILOSOPHY OF MEDICINE (^)

PHIL 3500 PROBLEMS IN PHILOSOPHY (^ MYTH, MEDICINE &amp; COSMOLOGY)

PSYC 4680 POSITIVE PSYCHOLOGY, HEALTH, &amp; WELL-BEING (^)

PSYC 4800 LAW &amp; PSYCHOLOGY: ETHICS, RESEARCH &amp; SERVICE (^)

RELI 2500 SPIRITUALITY AND WELLNESS (^)

RELI 3020 NATIVE AMERICAN RELIGIONS

RELI 3030 SHAMANISM

RELI 3500 TOPICS IN RELIGIOUS STUDIES (RELIGION IN PUBLIC LIFE)

RELI 3500 TOPICS IN RELIGIOUS STUDIES (SPIRITUALITY &amp; MADNESS)

RELI 3500 TOPICS IN RELIGIOUS STUDIES (COMPASSION)

RELI/BLST 4030 AFRICANA RELIGIONS

RELI 4210 PUBLIC HEALTH, RELIGION, AND HUMAN RIGHTS (^)

SPAN 3570 SPANISH FOR HEALTHCARE PROFESSIONALS (^)

**Choose two 3-credit courses from the following (Narrative Medicine, Communication & Fine Arts) 6**

ART 2100 LIFE DRAWING I (^)

ART 2110 LIFE DRAWING II (^)

ART 2600 SURVEY OF COMICS: MORE THAN CAPES AND TIGHTS (^ Medical Humanities Topic)

ART 3330 ART IN PUBLIC PLACES (^)

ART/MEDH 3440 EXPLORING ART THERAPY

CMST 1310 PERSPECTIVES IN COMMUNICATION STUDIES (\*\*)

CMST 4220 HEALTH COMMUNICATION (^)

MEDH 4000 TOPICS IN MEDICAL HUMANITIES (^ TOPIC WITH A BLOCK 3 ATTRIBUTE)

MEDH 4990 INDEPENDENT STUDY IN MEDICAL HUMANITIES (^ Narrative Medicine, Communication &amp; Fine Arts Topic)

MUS 2700 UNIVERSITY CHORUS (\*\* ^ no audition)

MUS 2740 CHAMBER MUSIC ( requires audition)

MUS 2760 UNIVERSITY CONCERT BAND (\*\* no audition)

MUS 2770 JAZZ ENSEMBLE (requires audition)

MUS 4100 CONCERT CHOIR (requires audition)

MUS 4130 UNIVERSITY ORCHESTRA (non-Music majors are welcome; audition only required for leadership positions)

MUS 4160 SYMPHONIC WIND ENSEMBLE (required audition)

MUS 4660 HEALTH AND WELLNESS FOR MUSICIANS

THEA 1300 ACTING I (\*\*)

WRWS 3500 CREATIVE WRITING FOR THE ARTS (\*\* ^)

**Only one 3-credit course in Narrative Medicine, Communication & Fine Arts can include the following**

|                |  |
|----------------|--|
| ENGL/MEDH 4940 | PUBLISHING THE LINDEN REVIEW (^)   |
| ENGL/MEDH 4950 | BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM (^)         |
| ENGL 4960      | TOPICS IN LANGUAGE AND LITERATURE  |
| ENGL 4970      | WRITING ABOUT SICKNESS AND HEALTH (^)  |
| MEDH 4000      | TOPICS IN MEDICAL HUMANITIES (^ Narrative Medicine, Communication & Fine Arts Topic) |
| MEDH 4990      | INDEPENDENT STUDY IN MEDICAL HUMANITIES  |
| RELI 3500      | TOPICS IN RELIGIOUS STUDIES  |
| RELI 4060      | FIRST NATIONS: SPIRIT IN ARTS AND CULTURES   |
| SPAN 4330      | LINGUISTIC JUSTICE AND LATINO HEALTH   |

**With advisor permission, one of the following 3-credit courses can replace a course from one of the above three areas**

|                |  |
|----------------|--|
| BIOL/MEDH 2060 | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^) |
| GERO/PSYC 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)  |
| PHHB 2850      | STRESS MANAGEMENT                              |
| PHHB/WGST 3080 | HUMAN SEXUALITY                                |
| PHIL 2030      | INTRODUCTION TO ETHICS (**)                    |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                        |
| SOC 4200       | SOCIOLOGY OF THE BODY (^)                      |
| SPAN 1140      | INTRODUCTION TO SPANISH FOR HEALTH SCIENCES    |

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Medical Humanities, Bachelor of Arts Four Year Plan

**Freshman**

| Fall                                 |                       | Credits |
|--------------------------------------|-----------------------|---------|
| General Education Course or Elective |                       | 3       |
| ENGL 1150                            | ENGLISH COMPOSITION I | 3       |

|                            |                                    |   |
|----------------------------|------------------------------------|---|
| World Language Course 1110 |                                    | 5 |
| MEDH 1000                  | INTRODUCTION TO MEDICAL HUMANITIES | 3 |

Elective 1

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 15**

**Spring**

|                            |   |   |
|----------------------------|---|---|
| World Language Course 1120 |   | 5 |
| CMST 1110                  | PUBLIC SPEAKING FUNDS                     | 3 |
| or CMST 2120               | or ARGUMENTATION AND DEBATE               |   |
| ENGL 1160                  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |

General Education Course or Elective 3

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 14**

**Sophomore**

**Fall**

|   |  |   |
|---|--|---|
| World Language Course 2110                  |  | 3 |
| General Education Course or Elective        |  | 3 |
| Quantitative Literacy Requirement for Major |  | 3 |
| General Education Course or Elective        |  | 3 |
| Block 1 course in MEDH Major                |  | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| World Language Course 2120           |  | 3 |
| General Education Course or Elective |  | 3 |
| Block 2 course in MEDH Major         |  | 3 |
| General Education Course or Elective |  | 3 |
| Elective                             |  | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Junior**

**Fall**

|                                      |                            |   |
|--------------------------------------|----------------------------|---|
| MEDH 3000                            | MEDICAL HUMANITIES COMMONS | 3 |
| General Education Course or Elective |                            | 3 |
| Block 3 Course in MEDH Major         |                            | 3 |
| Block 1 Course in MEDH Major         |                            | 3 |
| General Education Course or Elective |                            | 4 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

| Credits  |                                | 16      |
|--|--------------------------------|---------|
| <b>Spring</b>  |                                |         |
| General Education Course or Elective   |                                | 3       |
| Block 2 Course in MEDH Major   |                                | 3       |
| Block 3 Course in MEDH Major   |                                | 3       |
| General Education Course or Elective   |                                | 3       |
| General Education Course or Elective   |                                | 3       |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |                                |         |
| Credits  |                                | 15      |
| <b>Senior</b>  |                                |         |
| <b>Fall</b>  |                                |         |
| General Education Course or Elective   |                                | 3-4     |
| Elective   |                                | 3       |
| Elective   |                                | 3       |
| Elective   |                                | 3       |
| Elective   |                                | 3       |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.                   |                                |         |
| Credits  |                                | 15-16   |
| <b>Spring</b>  |                                |         |
| MEDH 4900  | CAPSTONE IN MEDICAL HUMANITIES | 3       |
| Elective   |                                | 3       |
| Elective   |                                | 3       |
| Elective   |                                | 3       |
| Elective   |                                | 2-3     |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.   |                                |         |
| Credits  |                                | 14-15   |
| Total Credits  |                                | 119-121 |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

[www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php](https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php)

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

## Medical Humanities, Bachelor of Science

To obtain a B.S. with a major in Medical Humanities, a student must fulfill university, college, and program requirements.

## Medical Humanities, Bachelor of Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Medical Humanities Major - 30 Hours Required</b>   |   |           |
| <b>Required Coursework</b>  |   | <b>9</b>  |
| MEDH 1000   | INTRODUCTION TO MEDICAL HUMANITIES (**)                 |           |
| MEDH 3000   | MEDICAL HUMANITIES COMMONS (^)                          |           |
| MEDH 4900   | CAPSTONE IN MEDICAL HUMANITIES (^)                      |           |

**Choose one 3-credit course from the following 3**

|           |  |
|-----------|--|
| PHIL 2010 | SYMBOLIC LOGIC                             |
| PSYC 3130 | STATISTICS FOR THE BEHAVIORAL SCIENCES (^) |
| SOC 2130  | SOCIAL STATISTICS (^)                      |

**Six courses, or 18 credit hours, must be chosen from the following three areas. Four of the six courses (12 credit hours) must be at the 3000/4000 Level**

**Choose two 3-credit courses from the following (Inclusivity & Diversity) 6**

|                |   |
|----------------|---|
| GEOG 3020      | HEALTH & MEDICAL GEOGRAPHY (^)  |
| GERO 4480      | GLOBAL AGEING   |
| GERO/WGST 4550 | HEALTH ASPECTS OF AGING   |
| MEDH 4000      | TOPICS IN MEDICAL HUMANITIES (^ TOPIC WITH A BLOCK 1 ATTRIBUTE)           |
| MEDH 4990      | INDEPENDENT STUDY IN MEDICAL HUMANITIES (^ Inclusivity & Diversity Topic) |

PHHB/GERO 3070 DEATH AND DYING

PHIL 3480 PHILOSOPHY OF RACE (\*\* ^)

PHIL 3490 GENDER AND PHILOSOPHY (\*\* ^)

PSYC 2500 LIFESPAN PSYCHOLOGY (^)

SOC 3820 MEDICAL SOCIOLOGY (^)

SOC 4440 HUMAN CONNECTION, LONELINESS, & HEALTH (^)

SOC/PHHB 4700 WOMEN'S HEALTH AND ISSUES OF DIVERSITY

SOC 4800 CONTEMPORARY TOPICS IN SOCIOLOGY (^ HEALTH & STRATIFICATION )

SOC 4830 SOCIOLOGY OF MENTAL HEALTH & ILLNESS (^)

SPAN 1100 ELEMENTARY SPANISH I FOR HEALTHCARE PROFESSIONALS

SPAN 4510 ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES (^)

or LLS 4510 ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES

**Choose two 3-credit courses from the following (Ethics, Religion & Culture) 6**

ANTH 4230 ETHNOMEDICINES OF THE AMERICAS (^)

ANTH 4240 MEDICAL ANTHROPOLOGY

ANTH/NAMS 4270 DECOLONIZING NATIVE AMERICAN HEALTH (^)

ANTH/MEDH 4280 CLINICAL ETHNOGRAPHY (^)

ANTH/MEDH 4290 DRUG USE, ADDICTION, & CULTURE (^)

ANTH 4920 SEMINAR IN ANTHROPOLOGY (^ FREE HEALTHCARE, CLINICAL CULTURES, AND HEALTH DISPARITIES)

HIST/MEDH 2030 HISTORY OF MEDICINE: FROM ANTIQUITY TO THE PRESENT (\*\*)

MEDH 4000 TOPICS IN MEDICAL HUMANITIES (^ Ethics, Religion & Culture Topic)

MEDH 4990 INDEPENDENT STUDY IN MEDICAL HUMANITIES (^ Ethics, Religion & Culture Topic)

PHIL/MEDH 2300 BIOMEDICAL ETHICS (^)

PHIL/MEDH 3450 PHILOSOPHY OF MEDICINE (^)

PHIL 3500 PROBLEMS IN PHILOSOPHY (^ MYTH, MEDICINE & COSMOLOGY )

PSYC 4680 POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)

PSYC 4800 LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^)

RELI 3020 NATIVE AMERICAN RELIGIONS (^)

RELI 3030 SHAMANISM

RELI 3500 TOPICS IN RELIGIOUS STUDIES (RELIGION IN PUBLIC LIFE)

RELI 3500 TOPICS IN RELIGIOUS STUDIES (SPIRITUALITY & MADNESS)

RELI 3500 TOPICS IN RELIGIOUS STUDIES (COMPASSION)

RELI/BLST 4030 AFRICANA RELIGIONS

RELI 4210 PUBLIC HEALTH, RELIGION, AND HUMAN RIGHTS (^)

SPAN 3570 SPANISH FOR HEALTHCARE PROFESSIONALS (^)

**Choose two 3-credit courses from the following (Narrative Medicine, Communication & Fine Arts) 6**

ART 2100 LIFE DRAWING I (^)

ART 2110 LIFE DRAWING II (^)

ART 2600 SURVEY OF COMICS: MORE THAN CAPES AND TIGHTS (^ Medical Humanities Topic)

ART 3330 ART IN PUBLIC PLACES (^)

ART/MEDH 3440 EXPLORING ART THERAPY

CMST 1310 PERSPECTIVES IN COMMUNICATION STUDIES (\*\*)

CMST 4220 HEALTH COMMUNICATION (^)

MEDH 4000 TOPICS IN MEDICAL HUMANITIES (^ TOPIC WITH A BLOCK 3 ATTRIBUTE)

MEDH 4990 INDEPENDENT STUDY IN MEDICAL HUMANITIES (^ Narrative Medicine, Communication & Fine Arts Topic)

MUS 2700 UNIVERSITY CHORUS (\*\* ^ no audition)

MUS 2740 CHAMBER MUSIC ( requires audition)

MUS 2760 UNIVERSITY CONCERT BAND (\*\* no audition)

MUS 2770 JAZZ ENSEMBLE (requires audition)

MUS 4100 CONCERT CHOIR (requires audition)

MUS 4130 UNIVERSITY ORCHESTRA (non-Music majors are welcome; audition only required for leadership positions)

MUS 4160 SYMPHONIC WIND ENSEMBLE (required audition)

MUS 4660 HEALTH AND WELLNESS FOR MUSICIANS

THEA 1300 ACTING I

WRWS 3500 CREATIVE WRITING FOR THE ARTS (\*\* ^)

**Only one 3-credit course in Narrative Medicine, Communication & Fine Arts can include the following**

ENGL/MEDH 4940 PUBLISHING THE LINDEN REVIEW

ENGL/MEDH 4950 BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM (^)

ENGL 4960 TOPICS IN LANGUAGE AND LITERATURE

ENGL 4970 WRITING ABOUT SICKNESS AND HEALTH (^)

|           |   |
|-----------|---|
| MEDH 4000 | TOPICS IN MEDICAL HUMANITIES<br>(Narrative Medicine, Communication & Fine Arts Topic) |
| MEDH 4990 | INDEPENDENT STUDY IN MEDICAL HUMANITIES   |
| RELI 3500 | TOPICS IN RELIGIOUS STUDIES   |
| RELI 4060 | FIRST NATIONS: SPIRIT IN ARTS AND CULTURES  |
| SPAN 4330 | LINGUISTIC JUSTICE AND LATINO HEALTH  |

**With advisor permission, one of the following 3-credit courses can replace a course from one of the above three areas**

|                |  |
|----------------|--|
| BIOL/MEDH 2060 | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^) |
| GERO/PSYC 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING      |
| PHHB 2850      | STRESS MANAGEMENT                              |
| PHHB/WGST 3080 | HUMAN SEXUALITY                                |
| PHIL 2030      | INTRODUCTION TO ETHICS (**)                    |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                        |
| SOC 4200       | SOCIOLOGY OF THE BODY (^)                      |
| SPAN 1140      | INTRODUCTION TO SPANISH FOR HEALTH SCIENCES    |

#### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### Bachelor of Science Cognate Requirement 15

Students in the B.S. degree program are required to complete 15 hours of cognate coursework, a field of specialization outside of their major based on their interests and/or career aspirations. Cognates are designed by the student in consultation with the undergraduate adviser.

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Medical Humanities, Bachelor of Science Four Year Plan

### Freshman

| Fall                                 |                                    | Credits |
|--------------------------------------|------------------------------------|---------|
| General Education Course or Elective |                                    | 3       |
| General Education Course or Elective |                                    | 3       |
| ENGL 1150                            | ENGLISH COMPOSITION I              | 3       |
| MEDH 1000                            | INTRODUCTION TO MEDICAL HUMANITIES | 3       |
| Elective                             |                                    | 3       |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

#### Credits 15

#### Spring

|                                      |   |   |
|--------------------------------------|---|---|
| General Education Course or Elective |   | 3 |
| CMST 1110                            | PUBLIC SPEAKING FUNDS                     | 3 |
| or CMST 2120                         | or ARGUMENTATION AND DEBATE               |   |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| General Education Course or Elective |   | 3 |
| Elective                             |   | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

#### Credits 15

### Sophomore

#### Fall

|   |  |   |
|---|--|---|
| Quantitative Literacy Requirement for Major |  | 3 |
| General Education Course or Elective        |  | 3 |
| Block 1 course in MEDH Major                |  | 3 |
| General Education Course or Elective        |  | 3 |
| B.S. Cognate Course                         |  | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

#### Credits 15

#### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 4 |
| Block 2 course in MEDH Major         |  | 3 |
| General Education Course or Elective |  | 3 |
| Elective                             |  | 3 |
| B.S. Cognate Course                  |  | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

#### Credits 16

### Junior

#### Fall

|                              |                            |   |
|------------------------------|----------------------------|---|
| MEDH 3000                    | MEDICAL HUMANITIES COMMONS | 3 |
| Block 1 Course in MEDH Major |                            | 3 |
| Block 3 Course in MEDH Major |                            | 3 |
| Elective                     |                            | 3 |
| Elective                     |                            | 3 |



Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15**

### Spring

|                              |     |
|------------------------------|-----|
| Block 2 Course in MEDH Major | 3   |
| Block 3 Course in MEDH Major | 3   |
| Elective                     | 3   |
| Elective                     | 3-4 |
| Elective                     | 3   |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15-16**

### Senior

#### Fall

|                     |   |
|---------------------|---|
| Elective            | 3 |
| Elective            | 3 |
| Elective            | 3 |
| B.S. Cognate Course | 3 |
| B.S. Cognate Course | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

### Spring

|                     |                                |     |
|---------------------|--------------------------------|-----|
| MEDH 4900           | CAPSTONE IN MEDICAL HUMANITIES | 3   |
| Elective            |                                | 3   |
| Elective            |                                | 3   |
| B.S. Cognate course |                                | 3   |
| Elective            |                                | 2-3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **14-15**

**Total Credits** **120-122**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

[www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php](https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php)

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Medical Humanities Minor Description

Medical humanities is an interdisciplinary field that explores, from multiple perspectives, connections between humans, cultures, medicine and allied health sciences. Medical humanities complements the health sciences, and encompasses the humanities, social sciences and the arts. It includes topics related to: health and illness; the interactions between health practices and conceptions of personhood, gender, and community; beliefs; practices, healing and ethics across cultures; the nature of suffering; and models of wellness.

The minor in medical humanities provides students who are interested in careers in medicine, nursing, public health, psychology, social work, health education, and other allied health sciences, with courses that complement and support their studies. The minor is intentionally flexible and interdisciplinary, reflecting both the needs of students and the nature of the discipline. It includes options and opportunities such as distance education and service learning. The medical humanities minor helps students to increase their understanding of the nature of illness, health, wellness, healing and medicine by exploring these topics in relation to:

- inclusivity and diversity
- ethics, religion and culture
- narrative medicine, communication, fine arts

## Other Information

All coursework taken for the medical humanities minor must be completed with a grade of "C-" or better.

## Contact Information

Dustin Pendley,  
dpendley@unomaha.edu

## Website (<http://www.unomaha.edu/college-of-arts-and-sciences/medical-humanities/>) Medical Humanities Minor Requirements

Undergraduate students seeking to minor in medical humanities must complete at least 15 credit hours of medical humanities courses with a grade of C- or higher and include at least one course from each of three core areas or blocks related to the study and practice of medical humanities: Block 1) inclusivity and diversity; Block 2) ethics, religion and culture; Block 3) narrative medicine, communication, fine arts.

A minimum of 9 out of the 15 credit hours of coursework must be upper division (3000 or higher) courses. Excluding MEDH courses, a maximum of



6 credit hours may be taken from a single discipline. For example, a student may count only 6 credits hours with an ENGL prefix toward the minor.

## Courses Fulfilling the Core Area/Block Requirements

Students must choose at least one course from each of the three core areas or blocks below. The rest of the 15 credit minor requirement may consist of coursework chosen from the medical humanities minor full course listings. No less than 9 out of the 15 total credit hours for the minor must be taken at the 3000-4000 level.

### Block Requirement Options

MEDH 1000 Introduction to Medical Humanities will fulfill one Block requirement. That is, a MEDH minor taking MEDH 1000 may use it to satisfy the requirement of three hours of coursework from Block 1, 2, or 3.

MEDH 3000 Medical Humanities Commons will fulfill one Block requirement. Attribution to Block 1, 2, or 3 will be handled through advisement, as the topic may change from semester to semester.

| Code   | Title  | Credits |
|--|--|---------|
| <b>Block 1: Inclusivity and Diversity</b>    |  |         |
| GEOG 3020                                    | HEALTH & MEDICAL GEOGRAPHY   |         |
| GERO 4480                                    | GLOBAL AGEING  |         |
| GERO/PHHB/<br>WGST 4550                      | HEALTH ASPECTS OF AGING  |         |
| MEDH 4000                                    | TOPICS IN MEDICAL HUMANITIES (Topic with a Block 1 attribute)                |         |
| MEDH 4990                                    | INDEPENDENT STUDY IN MEDICAL HUMANITIES (TOPIC WITH A BLOCK 1 ATTRIBUTE)     |         |
| PHHB/GERO 3070                               | DEATH AND DYING  |         |
| PHIL 3480                                    | PHILOSOPHY OF RACE   |         |
| PHIL/WGST 3490                               | GENDER AND PHILOSOPHY  |         |
| PSYC 2500                                    | LIFESPAN PSYCHOLOGY  |         |
| SOC 3820                                     | MEDICAL SOCIOLOGY  |         |
| SOC 4440                                     | HUMAN CONNECTION, LONELINESS, & HEALTH                                       |         |
| SOC/PHHB 4700                                | WOMEN'S HEALTH AND ISSUES OF DIVERSITY                                       |         |
| SOC 4800                                     | CONTEMPORARY TOPICS IN SOCIOLOGY (Health & Stratification)                   |         |
| SOC 4830                                     | SOCIOLOGY OF MENTAL HEALTH & ILLNESS   |         |
| SPAN 1140                                    | INTRODUCTION TO SPANISH FOR HEALTH SCIENCES                                  |         |
| SPAN/LLS 4510                                | ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES |         |
| <b>Block 2: Ethics, Religion and Culture</b> |  |         |
| ANTH 4230                                    | ETHNOMEDICINES OF THE AMERICAS   |         |
| ANTH 4240                                    | MEDICAL ANTHROPOLOGY   |         |
| ANTH/NAMS 4270                               | DECOLONIZING NATIVE AMERICAN HEALTH  |         |
| ANTH/MEDH 4280                               | CLINICAL ETHNOGRAPHY   |         |
| ANTH/MEDH 4290                               | DRUG USE, ADDICTION, & CULTURE   |         |
| ANTH 4920                                    | SEMINAR IN ANTHROPOLOGY  |         |
| HIST/MEDH 2030                               | HISTORY OF MEDICINE: FROM ANTIQUITY TO THE PRESENT                           |         |
| MEDH/PHIL 2300                               | BIOMEDICAL ETHICS  |         |
| MEDH 4000                                    | TOPICS IN MEDICAL HUMANITIES (Topic with a Block 2 attribute)                |         |

|  |   |
|--|---|
| MEDH 4990  | INDEPENDENT STUDY IN MEDICAL HUMANITIES (TOPIC WITH A BLOCK 2 ATTRIBUTE)                    |
| PHIL 3450  | PHILOSOPHY OF MEDICINE  |
| PHIL 3500  | PROBLEMS IN PHILOSOPHY (Myth, Medicine & Cosmology, Neuroethics)                            |
| PSYC 4680  | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING   |
| PSYC 4800  | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE  |
| RELI 2500  | SPIRITUALITY AND WELLNESS   |
| RELI 3020  | NATIVE AMERICAN RELIGIONS   |
| RELI 3030  | SHAMANISM   |
| RELI 3500  | TOPICS IN RELIGIOUS STUDIES (Spirituality and Madness; Religion in Public Life, Compassion) |
| RELI/BLST 4030   | AFRICANA RELIGIONS  |
| RELI 4210  | PUBLIC HEALTH, RELIGION, AND HUMAN RIGHTS   |
| SPAN 3570  | SPANISH FOR HEALTHCARE PROFESSIONALS  |
| <b>Block 3: Narrative Medicine, Communication, Fine Arts</b> |   |
| ART 2100   | LIFE DRAWING I (^)  |
| ART 2110   | LIFE DRAWING II (^)   |
| ART 2600   | SURVEY OF COMICS: MORE THAN CAPES AND TIGHTS (As topic appropriate)                         |
| ART 3330   | ART IN PUBLIC PLACES (Theory & Practice in Public Health)                                   |
| ART/MEDH 3440  | EXPLORING ART THERAPY   |
| CMST 1310  | PERSPECTIVES IN COMMUNICATION STUDIES   |
| CMST 4220  | HEALTH COMMUNICATION  |
| ENGL/MEDH 4940   | PUBLISHING THE LINDEN REVIEW  |
| ENGL 4960  | TOPICS IN LANGUAGE AND LITERATURE (Writing Graphic Memoir)                                  |
| ENGL/MEDH 4950   | BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM                    |
| ENGL 4970  | WRITING ABOUT SICKNESS AND HEALTH   |
| MEDH 4000  | TOPICS IN MEDICAL HUMANITIES (Topic with a Block 3 attribute)                               |
| MEDH 4990  | INDEPENDENT STUDY IN MEDICAL HUMANITIES (TOPIC WITH A BLOCK 3 ATTRIBUTE)                    |
| MUS 2700   | UNIVERSITY CHORUS   |
| MUS 2740   | CHAMBER MUSIC   |
| MUS 2760   | UNIVERSITY CONCERT BAND   |
| MUS 2770   | JAZZ ENSEMBLE   |
| MUS 4100   | CONCERT CHOIR   |
| MUS 4130   | UNIVERSITY ORCHESTRA  |
| MUS 4160   | SYMPHONIC WIND ENSEMBLE   |
| MUS 4660   | HEALTH AND WELLNESS FOR MUSICIANS   |
| RELI 4060  | FIRST NATIONS: SPIRIT IN ARTS AND CULTURES  |
| SPAN 4330  | LINGUISTIC JUSTICE AND LATINO HEALTH  |
| THEA 1300  | ACTING I (Medical Humanities Section)   |

WRWS 3500 CREATIVE WRITING FOR THE ARTS  
(Medical Humanities Section)

#### Medical Humanities Minor Full Course Listings

### College of Arts and Sciences

| Code                                    | Title  | Credits |
|---|--|---------|
| <b>Anthropology</b>                     |  |         |
| ANTH 4230                               | ETHNOMEDICINES OF THE AMERICAS   |         |
| ANTH 4240                               | MEDICAL ANTHROPOLOGY   |         |
| ANTH/NAMS 4270                          | DECOLONIZING NATIVE AMERICAN HEALTH  |         |
| ANTH 4920                               | SEMINAR IN ANTHROPOLOGY (Free Healthcare, Clinical Cultures, and Health Disparities) |         |
| ANTH/NAMS 4920                          | SEMINAR IN ANTHROPOLOGY (Native American Health and Wellness)                        |         |
| <b>Biology</b>                          |  |         |
| BIOL 1060                               | INTRODUCTION TO MEDICAL CAREERS & ETHICS   |         |
| BIOL 2060                               | ART AND SCIENCE OF MEDICAL DECISION-MAKING   |         |
| <b>Black Studies</b>                    |  |         |
| BLST/RELI 4030                          | AFRICANA RELIGIONS   |         |
| <b>English</b>                          |  |         |
| ENGL/MEDH 4950                          | BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM             |         |
| ENGL 4960                               | TOPICS IN LANGUAGE AND LITERATURE (Writing Graphic Memoirs)                          |         |
| ENGL 4970                               | WRITING ABOUT SICKNESS AND HEALTH  |         |
| <b>Foreign Languages and Literature</b> |  |         |
| SPAN 1140                               | INTRODUCTION TO SPANISH FOR HEALTH SCIENCES  |         |
| <b>History</b>                          |  |         |
| HIST/MEDH 2030                          | HISTORY OF MEDICINE: FROM ANTIQUITY TO THE PRESENT                                   |         |
| <b>Medical Humanities</b>               |  |         |
| MEDH 1000                               | INTRODUCTION TO MEDICAL HUMANITIES   |         |
| MEDH/HIST 2030                          | HISTORY OF MEDICINE: FROM ANTIQUITY TO THE PRESENT                                   |         |
| MEDH/PHIL 2300                          | BIOMEDICAL ETHICS  |         |
| MEDH 3000                               | MEDICAL HUMANITIES COMMONS   |         |
| MEDH 4000                               | TOPICS IN MEDICAL HUMANITIES   |         |
| MEDH 4990                               | INDEPENDENT STUDY IN MEDICAL HUMANITIES  |         |
| <b>Native American Studies</b>          |  |         |
| NAMS/ANTH 4270                          | DECOLONIZING NATIVE AMERICAN HEALTH  |         |
| NAMS/ANTH 4920                          | SPECIAL TOPICS IN NATIVE AMERICAN STUDIES (Native American Health & Wellness)        |         |
| <b>Philosophy</b>                       |  |         |
| PHIL 2030                               | INTRODUCTION TO ETHICS   |         |
| PHIL/MEDH 2300                          | BIOMEDICAL ETHICS  |         |
| PHIL 3450                               | PHILOSOPHY OF MEDICINE   |         |
| PHIL 3480                               | PHILOSOPHY OF RACE   |         |
| PHIL/WGST 3490                          | GENDER AND PHILOSOPHY  |         |

PHIL 3500 PROBLEMS IN PHILOSOPHY (Myth, Medicine & Cosmology, Neuroethics)

#### Psychology

|                |  |
|----------------|--|
| PSYC 2500      | LIFESPAN PSYCHOLOGY                          |
| PSYC 4440      | ABNORMAL PSYCHOLOGY                          |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING    |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING    |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE |

#### Religious Studies

|                |   |
|----------------|---|
| RELI 2500      | SPIRITUALITY AND WELLNESS   |
| RELI 3020      | NATIVE AMERICAN RELIGIONS   |
| RELI 3030      | SHAMANISM   |
| RELI 3500      | TOPICS IN RELIGIOUS STUDIES (Religion in Public Life; First Nations, Spirit in Culture, Compassion; Spirituality and Madness; Public Health, Religion and Human Rights) |
| RELI/BLST 4030 | AFRICANA RELIGIONS  |

#### Sociology

|               |  |
|---------------|--|
| SOC 3820      | MEDICAL SOCIOLOGY  |
| SOC 4200      | SOCIOLOGY OF THE BODY                                      |
| SOC 4440      | HUMAN CONNECTION, LONELINESS, & HEALTH                     |
| SOC/PHHB 4700 | WOMEN'S HEALTH AND ISSUES OF DIVERSITY                     |
| SOC 4800      | CONTEMPORARY TOPICS IN SOCIOLOGY (Health & Stratification) |
| SOC 4830      | SOCIOLOGY OF MENTAL HEALTH & ILLNESS                       |

#### Spanish

|           |   |
|-----------|---|
| SPAN 1140 | INTRODUCTION TO SPANISH FOR HEALTH SCIENCES |
| SPAN 3570 | SPANISH FOR HEALTHCARE PROFESSIONALS        |

#### Women's and Gender Studies

|                     |  |
|---------------------|--|
| WGST 2020           | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: HUMANITIES |
| WGST/PHHB 3080      | HUMAN SEXUALITY  |
| WGST/PHIL 3490      | GENDER AND PHILOSOPHY                                  |
| WGST/PHHB/GERO 4550 | HEALTH ASPECTS OF AGING                                |

### College of Communication, Fine Arts and Media

| Code         | Title  | Credits |
|--------------|--|---------|
| <b>Art</b>   |  |         |
| ART 2600     | SURVEY OF COMICS: MORE THAN CAPES AND TIGHTS (As topic appropriate)        |         |
| ART 3330     | ART IN PUBLIC PLACES (Public Health focus-please check with the professor) |         |
| <b>Music</b> |  |         |
| MUS 2740     | CHAMBER MUSIC (Sound Health Service Learning component)                    |         |
| MUS 4000     | SPECIAL STUDIES IN MUSIC (Health & Wellness for Musicians)                 |         |

#### Communication Studies

|           |  |
|-----------|--|
| CMST 1310 | PERSPECTIVES IN COMMUNICATION STUDIES      |
| CMST 2010 | INTERPERSONAL COMMUNICATION                |
| CMST 2410 | SMALL GROUP COMMUNICATION AND LEADERSHIP   |
| CMST 4220 | HEALTH COMMUNICATION                       |
| THEA 1300 | ACTING I (MH Section)                      |
| WRWS 3500 | CREATIVE WRITING FOR THE ARTS (MH Section) |

### College of Education, Health, and Human Sciences

| Code                                     | Title                                  | Credits |
|--|--|---------|
| <b>Public Health and Health Behavior</b> |  |         |
| PHHB 2850                                | STRESS MANAGEMENT                      |         |
| PHHB/GERO 3070                           | DEATH AND DYING                        |         |
| PHHB/WGST 3080                           | HUMAN SEXUALITY                        |         |
| PHHB/WGST/GERO 4550                      | HEALTH ASPECTS OF AGING                |         |
| PHHB/SOC 4700                            | WOMEN'S HEALTH AND ISSUES OF DIVERSITY |         |

### College of Public Affairs and Community Service

| Code                | Title   | Credits |
|---------------------|---|---------|
| <b>Gerontology</b>  |   |         |
| GERO/PHHB 3070      | DEATH AND DYING                                       |         |
| GERO 4350           | ISSUES IN AGING                                       |         |
| GERO/PSYC 4460      | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING             |         |
| GERO/PHHB/WGST 4550 | HEALTH ASPECTS OF AGING                               |         |
| GERO/SOWK 4850      | HOSPICE & OTHER SERVICES FOR THE DYING PATIENT/FAMILY |         |

### Recommended Courses

Recommended courses for students interested in pursuing a minor in Medical Humanities (but not counting directly toward the minor) include:

| Code      | Title   | Credits |
|-----------|---|---------|
| ANTH 1050 | INTRODUCTION TO ANTHROPOLOGY  |         |
| BLST 1000 | INTRODUCTION TO BLACK STUDIES   |         |
| CMST 4170 | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP                               |         |
| CMST 4530 | INTERCULTURAL COMMUNICATION & POWER                                       |         |
| CMST 4700 | INTERPERSONAL CONFLICT  |         |
| GERO 2000 | INTRODUCTION TO GERONTOLOGY   |         |
| NAMS 1100 | INTRODUCTION TO NATIVE AMERICAN STUDIES                                   |         |
| PHIL 1210 | CRITICAL REASONING  |         |
| PSYC 1010 | INTRODUCTION TO PSYCHOLOGY I  |         |
| PSYC 1020 | INTRODUCTION TO PSYCHOLOGY II   |         |
| RELI 1010 | RELIGIONS OF THE WORLD  |         |
| SOC 1010  | INTRODUCTORY SOCIOLOGY  |         |
| WGST 2010 | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: SOCIAL AND BEHAVIORAL SCIENCE |         |

MEDH 1000Introduction to Medical Humanities will fulfill one Block requirement. That is, a MEDH minor taking MEDH 1000 may use it to satisfy the requirement of three hours of coursework from Block 1,2, or 3.

MEDH 3000Medical Humanities Commons will fulfill one Block requirement. Attribution to Block 1, 2, or 3 will be handled through advisement as the topic may change from semester to semester.

## Medieval/Renaissance Studies Minor

The minor in Medieval/Renaissance Studies is designed to help students understand and appreciate the thirteen centuries belonging to the Middle Ages and the Renaissance through the disciplines of history, English and other European languages, art history, history of music, theatre, history of science, Middle Eastern studies, philosophy, and theology. Students explore the Medieval and Renaissance era and their crucial developments, from the invention of eyeglasses to the printing by moveable type, from Gothic cathedrals to the discovery of America, from the birth of university to the development of all the modern European vernacular languages, from King Arthur and Robin Hood to Shakespeare's plays and Michelangelo's paintings and sculpture.

### Minors Offered

Medieval/Renaissance Studies Minor

### Other Information

All coursework taken for the Medieval/Renaissance Studies minor must be completed with a grade of "C" or better.

### Contact

Martina Saltamacchia, PhD, Medieval and Renaissance Studies Director  
msaltamacchia@unomaha.edu  
402.554.4826

### Website (<http://www.unomaha.edu/mrs/>) Medieval/Renaissance Studies Minor Requirements

Undergraduate students seeking to minor in Medieval and Renaissance Studies must complete **at least 15 credit hours of coursework** from at least three of the four following areas: 1) Fine and Performing Arts; 2) Literature and Language; 3) History; and 4) Philosophy and Religion. See below for a list of approved courses. **A minimum of 9 credits must be at the upper-division (3000/4000) level.**

Please note: As new courses are being added to this minor on an on-going basis, students should select Medieval/Renaissance Studies courses in consultation with their minor advisor or with the minor director, who will provide them with the most recent list of course options.

### Fine and Performing Arts

| Code                              | Title   | Credits |
|-----------------------------------|---|---------|
| ^Course requires pre-requisite(s) |   |         |
| ART 3760                          | RESEARCH, WRITING, AND COMMUNICATION FOR CAREERS IN ART (^) |         |
| ART 3770                          | HISTORY OF ARCHITECTURE TO 1850 (^)                         |         |
| ART 4750                          | LATE ROMAN AND BYZANTINE ART HISTORY (^)                    |         |
| ART 4770                          | EARLY MEDIEVAL ART (^)                                      |         |
| ART 4780                          | LATE MEDIEVAL ART HISTORY (^)                               |         |
| ART 4810                          | NORTHERN EUROPEAN RENAISSANCE ART HISTORY (^)               |         |
| ART 4830                          | ITALIAN RENAISSANCE ART HISTORY (^)                         |         |

|           |   |
|-----------|---|
| ART 4850  | BAROQUE AND ROCOCO ART HISTORY (^)  |
| ART 4930  | SPECIAL TOPICS IN ART HISTORY (^<br>Blood, Bones and Bricks; British Study<br>Abroad with medieval project; Technical<br>Art History) |
| MUS 4540  | RENAISSANCE MUSIC LITERATURE (^)  |
| THEA 4020 | ADVANCED PROJECTS IN THEATRE (^)  |
| THEA 4050 | SHAKESPEARE ON FILM: THE ART OF<br>INTERPRETATION (^)   |

## Literature and Language

| Code                              | Title   | Credits |
|-----------------------------------|---|---------|
| ^Course requires pre-requisite(s) |   |         |
| ENGL 2310                         | INTRODUCTION TO BRITISH LITERATURE I (^)  |         |
| ENGL 2510                         | GLOBAL EXPLORATIONS: MEDIEVAL TO<br>EARLY MODERN WORLD (^)                                      |         |
| ENGL 3280                         | IRISH LITERATURE I (^)  |         |
| ENGL 3400                         | JUNIOR TOPICS IN BRITISH/IRISH/<br>ANGLOPHONE LITERATURE (^ King<br>Arthur through the Ages)    |         |
| ENGL 4320                         | CHAUCER (^)   |         |
| ENGL 4340                         | SHAKESPEARE   |         |
| ENGL 4370                         | RESTORATION AND EIGHTEENTH-<br>CENTURY LITERATURE (^)   |         |
| ENGL 4390                         | MEDIEVAL CELTIC LITERATURE (^)  |         |
| ENGL 4620                         | HISTORY OF ENGLISH (^)  |         |
| ENGL 4960                         | TOPICS IN LANGUAGE AND LITERATURE<br>(^ Medieval Women Writers)                                 |         |
| HIST 2710                         | A HISTORY OF RUSSIA FROM KIEVAN<br>RUS' TO THE CRIMEAN WAR                                      |         |
| LATN 1110                         | ELEMENTARY LATIN I (^ A total of 3<br>maximum credits in Latin may be applied<br>to the minor.) |         |
| or LATN 1120                      | ELEMENTARY LATIN II   |         |
| or LATN 2110                      | INTERMEDIATE LATIN I  |         |
| or LATN 2120                      | INTERMEDIATE LATIN II   |         |
| SPAN 3170                         | SURVEY OF SPANISH LITERATURE I (^)  |         |
| SPAN 4950                         | PRO-SEMINAR: LITERATURE AND/OR<br>FILM (^ Topic: Medieval and Golden Age)                       |         |
| SPAN 4960                         | PRO-SEMINAR: CULTURE AND SOCIETY<br>(^ Don Quijote)   |         |

## History

| Code                              | Title  | Credits |
|-----------------------------------|--|---------|
| ^Course required pre-requisite(s) |  |         |
| HIST 4530                         | EUROPE: RENAISSANCE &<br>REFORMATION (^)   |         |
| HIST 4540                         | MEDIEVAL EUROPE (^)  |         |
| HIST 4610                         | TUDOR AND STUART ENGLAND (^)   |         |
| HIST 4910                         | TOPICS IN HISTORY (^ Byzantine History<br>330-1453, Building Cathedrals, Castles &<br>Cathedrals, The Crusades, The Medieval<br>University, Women in Europe 1300-1800) |         |

## Philosophy and Religion

| Code                              | Title                      | Credits |
|-----------------------------------|----------------------------|---------|
| ^Course requires pre-requisite(s) |                            |         |
| PHIL 3500                         | PROBLEMS IN PHILOSOPHY (^) |         |

|           |                                      |
|-----------|--------------------------------------|
| PSCI 4320 | EARLY MODERN POLITICAL THOUGHT (^)   |
| RELI 3060 | RELIGIONS OF THE WEST                |
| RELI 3200 | ISLAM AND MUSLIMS                    |
| RELI 3500 | TOPICS IN RELIGIOUS STUDIES (Qur'an) |
| RELI 4170 | HISTORY OF CHRISTIANITY I            |
| RELI 4180 | HISTORY OF CHRISTIANITY II           |

No more than 3 credits of independent study, directed readings, or internships may be applied toward the minor, and such study is subject to approval by the program director.

Only one course in Latin may be applied to the minor, for a maximum of 3 credits.

## Molecular and Biomedical Biology

Students seeking biomedical careers can pursue specialized studies in cellular and molecular biology. Molecular and Biomedical Biology majors gain real-world experience in biomedical research during the required biotechnology internship under the Molecular Biotechnology Pathway. Under the Biomedical Humanities Pathway, Molecular and Biomedical Biology majors explore perspectives that connect the human condition to biomedicine. The Molecular and Biomedical Biology major is an outstanding way to prepare for graduate programs in cellular and molecular biology, a career in the biotechnology industry, or the health professions.

## Other Information

All coursework taken for the Molecular and Biomedical Biology major or minor must be completed with a grade of "C-" or better.

## Overlapping Restrictions

Students may not earn a Molecular & Biomedical Biology major and Biology minor, nor a Biology major and Molecular & Biomedical Biology minor.

For a double major in Biology and Molecular & Biomedical Biology -Beyond: BIOL 1450, BIOL 1750, BIOL 2140 and BIOL 3020, no other biology courses may count for both majors.

Molecular & Biomedical Biology with a double major in Bioinformatics: -Beyond BIOL 1450, BIOL 1750, BIOL 2140, and BIOL 3020, no other biology courses may satisfy the requirements for both majors.

Molecular & Biomedical Biology with a double major in Neuroscience: -Beyond BIOL 1450, BIOL 1750, and BIOL 2140, no other biology courses may satisfy requirements for both majors.

Molecular and Biomedical Biology and Chemistry:

- MBB majors may add a Chemistry minor or double major (no concentration) without overlapping restrictions
- MBB and Chemistry-Medicinal Chemistry as double majors may not count CHEM 4660-4664 Biochemistry II Lecture and Lab toward both majors.
- Chemistry-Medicinal Chemistry majors may add a Molecular and Biomedical Biology minor without overlapping restrictions

## Residency

Residency Requirement for Molecular and Biomedical Biology Majors  
To fulfill degree requirements, 3000/4000 level laboratory courses must be taken at UNO.

## Contact Information

Allwine Hall 114  
402.554.2641

**Website** (<https://www.unomaha.edu/college-of-arts-and-sciences/biology/academics/molecular-biomedical-biology.php>)

Degrees Offered

- Molecular and Biomedical Biology, Bachelor of Science (p. 248)

Minors Offered

- Molecular and Biomedical Biology, Minor (p. 253)

At a most basic level molecular and biomedical biology involves the use of biological organisms, systems, or processes to develop technologies and products to improve the quality of life. Nowhere is this more apparent than in healthcare and new avenues to diagnose, treat, and study disease. The curriculum focuses on molecular biology, genetics and genomics, cellular biology, and biochemistry. Through the Molecular Biotechnology track, students are able to participate in research through a semester-long internship in an academic, commercial, clinical, or government laboratory in the region. Within the Biomedical Humanities track, students are exposed to perspectives that connect the human condition to biomedicine.

- Laboratory Technologist
- Research Technician
- Biomedical Scientist
- Pharmaceutical/Medical Product Sales Representative
- Health Professional
- Health Educator
- Data Analyst

Specialized fields include:

- Agricultural or animal biotechnology
- Bio-based fuels
- Pharmaceuticals
- Conservation and the environment
- Medical technology
- Healthcare
- Biomedical consulting

Molecular and Biomedical Biology, Bachelor of Science

To obtain a BS in Molecular and Biomedical Biology (MBB), a student must fulfill university, college, and department requirements. Students choose one of two tracks: Molecular Biotechnology or Biomedical Humanities.

Molecular and Biomedical Biology, Bachelor of Science - Molecular Biotechnology Requirements

| Code   | Title                 | Credits |
|--|-----------------------|---------|
| GENERAL EDUCATION REQUIREMENTS - 34 Hours Required |                       |         |
| Minimum of "C-" required                           |                       |         |
| Fundamental Skills                                 |                       | 15      |
| Writing – 6 hrs.                                   |                       |         |
| ENGL 1150  | ENGLISH COMPOSITION I |         |

|  |   |
|--|---|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY               |
| Oral Communication – 3 hrs.  |   |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                   |
| or CMST 2120   | ARGUMENTATION AND DEBATE                                |
| Quantitative Literacy – 3 hrs.   |   |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130   | QUANTITATIVE LITERACY                                   |
| or MATH 1140   | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                            |
| Data Literacy – 3 hrs.   |   |
| Select one from the following:   |   |
| STAT 1100  | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530  | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.                                    |   |
| Breadth of Knowledge   |   |
| 13   |   |
| Social Science – 3 hrs.  |   |
| Humanities – 3 hrs.  |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |
| Arts – 3 hrs.  |   |
| Individual and Social Responsibility   |   |
| 6  |   |
| Cultural Knowledge – 3 hrs.  |   |
| Civic Knowledge and Engagement – 3 hrs.  |   |
| MAJOR REQUIREMENTS   |   |
| **Course will satisfy UNO's General Education requirement  |   |
| ^Course requires pre-requisite(s)  |   |
| Molecular and Biomedical Biology Major, Molecular Biotechnology - 70-75 Hours Required   |   |
| Requirements   |   |
| The Bachelor of Science in Molecular and Biomedical Biology degree requires 36-45 credits of biology courses of which 18 credits must be 3000-4000 level courses. The course requirements are below. |   |
| All of the following:  |   |
| 20   |   |
| BIOL 1450  | BIOLOGY I (** ^)  |
| BIOL 1750  | BIOLOGY II (^)  |
| BIOL 2140  | GENETICS (^)  |
| BIOL 3020  | MOLECULAR BIOLOGY OF THE CELL (^)                       |
| BIOL 3240  | INTRODUCTION TO IMMUNOLOGY (^)                          |
| Biochemistry Requirement: Select one of the following options  |   |
| 4  |   |
| BIOL/CHEM 4650   | BIOCHEMISTRY I (^ must also take the following lab)     |
| BIOL/CHEM 4654   | BIOCHEMISTRY I LABORATORY (^)                           |
| or   |   |
| CHEM 4610  | BIOCHEMISTRY OF METABOLISM (^)                          |
| Select three of the following, at least two must be lab-based  |   |
| 10-13  |   |
| BIOL 4130  | MOLECULAR GENETICS (^ lab-based)                        |
| BIOL 4140  | CELLULAR BIOLOGY (^ lab-based)                          |
| BIOL 4450 & BIOL 4454  | VIROLOGY and VIROLOGY LABORATORY (^)                    |
| BIOL 4460  | COMPARATIVE IMMUNOLOGY (^ lab-based)                    |



|                          |  |
|--------------------------|--|
| BIOL 4640<br>& BIOL 4644 | MOLECULAR MICROBIOLOGY<br>and MOLECULAR MICROBIOLOGY LAB<br>(^)  |
| BIOL 4810                | BEHAVIORAL GENETICS (^ lab-based)  |
| BIOL 4850<br>& BIOL 4830 | DEVELOPMENTAL BIOLOGY<br>and DEVELOPMENTAL GENETICS (^ lab-<br>based. BIOL 4850 concurrent or prior to<br>BIOL 4830) |
| BIOL 4860                | COMPARATIVE GENOMICS (^)   |
| BIOL/CHEM 4660           | BIOCHEMISTRY II (^ with the following<br>lab)  |
| BIOL/CHEM 4664           | BIOCHEMISTRY II LABORATORY (^)   |
| BIOL 4760                | GENOME TECHNOLOGY AND ANALYSIS<br>(^)  |
| BIOL/NEUR 4870           | MOLECULAR AND CELLULAR<br>NEUROBIOLOGY (^)   |

#### Required Chemistry and Physics Sequence 21

|                           |   |
|---------------------------|---|
| CHEM 1180<br>& CHEM 1184  | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY (** ^)     |
| CHEM 1190<br>& CHEM 1194  | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY (^)      |
| CHEM 2250                 | ORGANIC CHEMISTRY I (^)   |
| CHEM 2260                 | ORGANIC CHEMISTRY II (^)  |
| CHEM 2274                 | ORGANIC CHEMISTRY LABORATORY (^)  |
| PHYS 1110<br>or PHYS 2110 | PHYSICS FOR LIFE SCIENCE I (** ^)<br>GENERAL PHYSICS I - CALCULUS LEVEL |
| PHYS 1154                 | GENERAL PHYSICS LABORATORY I (** ^)                                     |

#### Mathematics

**Two courses in mathematics or statistics are required and must include one of the following calculus courses 6-8**

|           |   |
|-----------|---|
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE,<br>AND SOCIAL SCIENCES (^) |
| MATH 1940 | CALCULUS FOR BIOMEDICINE (^)                                  |
| MATH 1950 | CALCULUS I (^)  |

#### Molecular Biotechnology Focus Area

This focus area will position students to excel in graduate, medical, business, or law schools, as well as industry careers. Students will have about 10 hours of free electives with this focus area.

#### Internship 3

|           |  |
|-----------|--|
| BIOL 4550 | MOLECULAR AND BIOMEDICAL<br>BIOLOGY INTERNSHIP (^) |
|-----------|--|

#### Six hours in Information, Innovation, and Development 6

|           |   |
|-----------|---|
| BIOI 3000 | APPLIED BIOINFORMATICS (^)                  |
| ACMP 2220 | CREATIVITY AND INNOVATION                   |
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)             |
| ENTR 4740 | TECHNOLOGY AND INNOVATION<br>MANAGEMENT (^) |
| ACCT 2010 | PRINCIPLES OF ACCOUNTING I (^)              |
| MGMT 3490 | MANAGING PEOPLE AND<br>ORGANIZATIONS (^)    |
| STAT 4410 | INTRODUCTION TO DATA SCIENCE (^)            |

#### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours |
|--|

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ Lab or without lab- 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### Bachelor of Science Cognate Requirement 0-15

See advisor

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Molecular and Biomedical Biology, Bachelor of Science - Biomedical Humanities Requirements

**Code Title Credits**

#### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

#### Fundamental Skills 15

##### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND  
INFORMATION LITERACY

##### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

##### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE  
PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

##### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)



Molecular and Biomedical Biology Major, Biomedical Humanities - 76-81 Hours Required

Requirements

The Bachelor of Science in Molecular and Biomedical Biology degree requires 36-45 credits of biology courses of which 18 credits must be 3000-4000 level courses. The course requirements are below.

Required Courses 20

|           |                                   |
|-----------|-----------------------------------|
| BIOL 1450 | BIOLOGY I (** ^)                  |
| BIOL 1750 | BIOLOGY II (^)                    |
| BIOL 2140 | GENETICS (^)                      |
| BIOL 3020 | MOLECULAR BIOLOGY OF THE CELL (^) |
| BIOL 3240 | INTRODUCTION TO IMMUNOLOGY (^)    |

Biochemistry Requirement. Select one of the following 4

|                |   |
|----------------|---|
| BIOL/CHEM 4650 | BIOCHEMISTRY I (^ must also take the following lab) |
| BIOL/CHEM 4654 | BIOCHEMISTRY I LABORATORY (^)                       |

OR

|           |                                |
|-----------|--------------------------------|
| CHEM 4610 | BIOCHEMISTRY OF METABOLISM (^) |
|-----------|--------------------------------|

Select three of the following, at least two must be lab-based 10-13

|                       |   |
|-----------------------|---|
| BIOL 4130             | MOLECULAR GENETICS (^ lab-based)  |
| BIOL 4140             | CELLULAR BIOLOGY (^ lab-based)  |
| BIOL 4450 & BIOL 4454 | VIROLOGY and VIROLOGY LABORATORY (^)  |
| BIOL 4460             | COMPARATIVE IMMUNOLOGY (^ lab-based)  |
| BIOL 4640 & BIOL 4644 | MOLECULAR MICROBIOLOGY and MOLECULAR MICROBIOLOGY LAB (^)                                       |
| BIOL 4810             | BEHAVIORAL GENETICS (^)   |
| BIOL 4850 & BIOL 4830 | DEVELOPMENTAL BIOLOGY and DEVELOPMENTAL GENETICS (^ BIOL 4850 concurrent or prior to BIOL 4830) |
| BIOL 4860             | COMPARATIVE GENOMICS (^)  |
| BIOL/CHEM 4660        | BIOCHEMISTRY II (^ must take BIOL 4664)   |
| BIOL/CHEM 4664        | BIOCHEMISTRY II LABORATORY (^ must take with BIOL 4660)   |
| BIOL 4760             | GENOME TECHNOLOGY AND ANALYSIS (^)  |
| BIOL/NEUR 4870        | MOLECULAR AND CELLULAR NEUROBIOLOGY (^)   |

Required Chemistry and Physics Sequence 21

|                        |   |
|------------------------|---|
| CHEM 1180 & CHEM 1184  | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^) |
| CHEM 1190 & CHEM 1194  | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)  |
| CHEM 2250              | ORGANIC CHEMISTRY I (^)                                       |
| CHEM 2260              | ORGANIC CHEMISTRY II (^)                                      |
| CHEM 2274              | ORGANIC CHEMISTRY LABORATORY (^)                              |
| PHYS 1110 or PHYS 2110 | PHYSICS FOR LIFE SCIENCE I (** ^)                             |
| PHYS 1154              | GENERAL PHYSICS I - CALCULUS LEVEL LABORATORY I (** ^)        |

Mathematics

Two courses in mathematics or statistics are required and must include one of the following calculus courses 6-8

|           |  |
|-----------|--|
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (Requires MATH 1320 or MATH 1300 ^) |
| MATH 1940 | CALCULUS FOR BIOMEDICINE (^)   |
| MATH 1950 | CALCULUS I (^)   |

Biomedical Humanities Focus Area 15

This is a path to prepare students for success in healthcare and affiliated training programs. Students will have approximately 4 hours of free electives with this track. Requires completion of minor in Medical Humanities. Nine credits must be in upper division (3000 or higher) courses.

College Breadth (choose one option) - 15-30+ Hours Required

The College Breadth requirement is satisfied by completing the minor in Medical Humanities

Bachelor of Science Cognate Requirement - 0-15 Hours Required

See advisor

ELECTIVES

Elective hours as required to reach a total of 120 hours

Molecular and Biomedical Biology, Bachelor of Science - Molecular Biotechnology Four Year Plan

Freshman

|                        |  | Credits |
|------------------------|--|---------|
| Fall                   |  |         |
| ENGL 1150              | ENGLISH COMPOSITION I                                  | 3       |
| CMST 1110 or CMST 2120 | PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE      | 3       |
| CHEM 1180 & CHEM 1184  | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY | 4       |
| BIOL 1450              | BIOLOGY I  | 5       |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

Credits 15

Spring

|                             |  |   |
|-----------------------------|--|---|
| ENGL 1160                   | COLLEGE RESEARCH AND INFORMATION LITERACY                | 3 |
| CHEM 1190 & CHEM 1194       | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY | 4 |
| BIOL 1750                   | BIOLOGY II   | 5 |
| Humanities/Fine Arts Course |  | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

Credits 15

Sophomore

Fall

|                  |     |
|------------------|-----|
| Calculus Course* | 3-5 |
|------------------|-----|

|  |                     |   |
|--|---------------------|---|
| CHEM 2250  | ORGANIC CHEMISTRY I | 3 |
| BIOL 2140  | GENETICS            | 4 |
| General Education Course or Elective                                     |                     | 3 |
| General Education Course or Elective (if 3 credit calculus course taken) |                     | 3 |

\*Calculus options include MATH 1930, MATH 1940, or MATH 1950. Prerequisites vary.

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits** **16-18**

### Spring

|                                      |   |   |
|--------------------------------------|---|---|
| CHEM 2260 & CHEM 2274                | ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY | 5 |
| BIOL 3020                            | MOLECULAR BIOLOGY OF THE CELL                         | 3 |
| Math or Statistics                   |   | 3 |
| General Education Course or Elective |   | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February - March.

**Credits** **14**

### Junior Fall

|                                      |  |   |
|--------------------------------------|--|---|
| CHEM 4650 & CHEM 4654                | BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY | 4 |
| BIOL 3240                            | INTRODUCTION TO IMMUNOLOGY                   | 3 |
| General Education Course or Elective |  | 3 |
| Social Sciences                      |  | 3 |
| Elective                             |  | 3 |

**Credits** **16**

### Spring

|  |   |   |
|--|---|---|
| Upper Level BIOL course with Lab (see catalog)                   |   | 4 |
| PHYS 1110 & PHYS 1154  | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I | 5 |
| Course in Information, Innovation, and Development (see catalog) |   | 3 |
| Elective   |   | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February - March.

**Credits** **15**

### Senior Fall

|  |  |   |
|--|--|---|
| Upper Level BIOL Course with lab (see catalog)                   |  | 4 |
| Course in Information, Innovation, and Development (see catalog) |  | 3 |
| General Education Course or Elective                             |  | 3 |
| General Education Course or Elective                             |  | 3 |
| Elective   |  | 2 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

### Spring

|                                       |  |   |
|---------------------------------------|--|---|
| BIOL 4550                             | MOLECULAR AND BIOMEDICAL BIOLOGY INTERNSHIP (**) | 3 |
| Upper Level BIOL Course (see catalog) |  | 3 |
| General Education Course or Elective  |  | 3 |
| Elective                              |  | 3 |
| Elective                              |  | 2 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **14**

**Total Credits** **120-122**

## Molecular and Biomedical Biology, Bachelor of Science - Biomedical Humanities Four Year Plan

### Freshman

|                         |   | Credits |
|-------------------------|---|---------|
| ENGL 1150               | ENGLISH COMPOSITION I                             | 3       |
| CMST 1110 or CMST 2120  | PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE | 3       |
| MATH 1320/ or MATH 1300 | COLLEGE ALGEBRA or COLLEGE ALGEBRA WITH SUPPORT   | 3-4     |
| BIOL 1450               | BIOLOGY I   | 5       |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits** **14-15**

### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY              | 3 |
| General Education Course or Elective |  | 3 |
| CHEM 1180 & CHEM 1184                | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY | 4 |
| BIOL 1750                            | BIOLOGY II   | 5 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February - March.

**Credits** **15**

**Sophomore****Fall**

|   |  |     |
|---|--|-----|
| CHEM 1190<br>& CHEM 1194                          | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY | 4   |
| Medical Humanities Minor Course – Lower Level     |  | 3   |
| General Education Course or Elective              |  | 3   |
| General Education Course or Elective              |  | 3   |
| Calculus Course*                                  |  | 3-5 |
| *Calculus options include: MATH 1930, 1940, 1950. |  |     |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 16-18**

**Spring**

|  |                     |     |
|--|---------------------|-----|
| CHEM 2250  | ORGANIC CHEMISTRY I | 3   |
| BIOL 2140  | GENETICS            | 4   |
| General Education Course or Elective   |                     | 3   |
| General Education Course or Elective   |                     | 3   |
| Elective   |                     | 2-3 |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                     |     |

**Credits 15-16**

**Junior****Fall**

|  |   |   |
|--|---|---|
| CHEM 2260<br>& CHEM 2274   | ORGANIC CHEMISTRY II<br>and ORGANIC CHEMISTRY<br>LABORATORY | 5 |
| BIOL 3020  | MOLECULAR BIOLOGY OF THE CELL                               | 3 |
| Elective   |   | 3 |
| Ethical/Religious/Cross-cultural course for minor*   |   | 3 |
| *The Medical Humanities minor requires 15 credits, of which 9 must be 3000-4000 level. Take an upper or lower level course, accordingly. |   |   |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 14**

**Spring**

|  |                            |   |
|--|----------------------------|---|
| CHEM 4610  | BIOCHEMISTRY OF METABOLISM | 4 |
| BIOL 3240  | INTRODUCTION TO IMMUNOLOGY | 3 |
| Upper Level BIOL course with Lab (see catalog)   |                            | 4 |
| Race/Ethnicity/Gender/Sex/Age course for MEDH minor (see catalog)  |                            | 3 |
| Elective   |                            | 1 |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |                            |   |

**Credits 15**

**Senior****Fall**

|  |  |     |
|--|--|-----|
| Upper Level BIOL Course (see catalog)  | 3  |     |
| PHYS 1110<br>& PHYS 1154   | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I | 5   |
| Medical humanities minor course (see catalog)  |  | 3   |
| Elective or Medical humanities minor course  |  | 1-3 |
| Elective   |  | 3   |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |  |     |

**Credits 15-17**

**Spring**

|  |   |
|--|---|
| Upper Level BIOL Course with Lab (see catalog)   | 4 |
| Narrative medicine/Communication course for MEDH minor   | 3 |
| General Education Course or Elective   | 3 |
| Elective   | 3 |
| Elective   | 1 |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |   |

**Credits 14**

**Total Credits 118-124**

**College Breadth:** Students in the Biotechnology track should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement. Students in the Biomedical Humanities track have satisfied this requirement by completing the minor in Medical Humanities.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Molecular and Biomedical Biology, Minor

### Molecular and Biomedical Biology Minor Requirements

A minor in molecular and biomedical biology requires a minimum of 21 semester credit hours. All courses counted toward a minor in molecular and biomedical biology, must be applicable toward a major in molecular and biomedical biology. These hours must include:

| Code   | Title   | Credits    |
|--|---|------------|
| <b>Required courses:</b>   |   | <b>17</b>  |
| BIOL 1450  | BIOLOGY I   |            |
| BIOL 1750  | BIOLOGY II  |            |
| BIOL 2140  | GENETICS  |            |
| BIOL 3020  | MOLECULAR BIOLOGY OF THE CELL   |            |
| <b>In addition, select one 4000-level Biology lecture + lab course from the Molecular and Biomedical Biology major course options, listed below:</b> |   | <b>4-5</b> |
| BIOL 4130  | MOLECULAR GENETICS (4 hrs for lec + lab)  |            |
| BIOL 4140  | CELLULAR BIOLOGY (4 hrs for lec + lab)  |            |
| BIOL 4450 & BIOL 4454  | VIROLOGY and VIROLOGY LABORATORY (4450 lec + 4454 lab, 4 hrs total)                 |            |
| BIOL 4460  | COMPARATIVE IMMUNOLOGY (4 hrs for lec + lab)  |            |
| BIOL 4640  | MOLECULAR MICROBIOLOGY (4 hrs for lec + lab)  |            |
| BIOL/CHEM 4650   | BIOCHEMISTRY I (4650 lec + following 4654 lab, 4 hrs total)                         |            |
| BIOL/CHEM 4654   | BIOCHEMISTRY I LABORATORY (1 hr)  |            |
| BIOL/CHEM 4660   | BIOCHEMISTRY II (4660 lec + following 4664 lab, 4 hrs total)                        |            |
| BIOL/CHEM 4664   | BIOCHEMISTRY II LABORATORY (1 hr)   |            |
| BIOL 4810  | BEHAVIORAL GENETICS (4 hrs for lec + lab)   |            |
| BIOL 4850 & BIOL 4830  | DEVELOPMENTAL BIOLOGY and DEVELOPMENTAL GENETICS (4850 lec + 4830 lab, 5 hrs total) |            |

Students transferring biology credits are required to take a minimum of two 3000 or 4000-level courses at UNO. Students may not earn a molecular and biomedical biology minor if they earn a biology major.

## Native American Studies Minor

### Mission

Native American Studies offers students an opportunity to learn about Native American Tribal Nations, cultures, literatures, histories, arts, values, lifeways, spirituality, and social and political institutions. Our program has a long-standing tradition of activism on contemporary issues and includes a focus on urban Indigenous issues, providing students with the opportunity to engage in meaningful community-based research.

### Minors Offered

Native American Studies minor

## Other Information

All coursework taken for the Native American Studies minor must be completed with a grade of "C" or better.

Students may also elect to pursue a Native American Studies concentration (30 hours) through the Bachelor of Multidisciplinary Studies program (College of Public Affairs and Community Service). This program should be initiated by the beginning of the junior year.

## Contact

Brady DeSanti, Ph.D., Native American Studies Director  
402.554.2956  
bdesanti@unomaha.edu

**Website (<http://www.unomaha.edu/college-of-arts-and-sciences/native-american-studies/>)**

### Native American Studies Minor Requirements

The Native American Studies minor requires 15 credit hours, a minimum 9 hours must be 3000 and/or 4000 level. Introduction to Native American Studies (NAMS 1100) is required.

| Code   | Title                                   | Credits |
|--|---|---------|
| NAMS 1100  | INTRODUCTION TO NATIVE AMERICAN STUDIES | 3       |
| At least 12 hours of courses approved for credit in the Native American Studies Program. (9 must be 3000 and/or 4000 level.) |   | 12      |

## Neuroscience

The study of neuroscience is one of the most rapidly growing areas in the sciences, reflecting the importance of the fundamental and applied interest in how the nervous system is coordinated and regulated. The field of neuroscience examines the physiology, anatomy, pharmacology, development, growth, maintenance, and evolution of nervous system processes. As an interdisciplinary major, students explore how neuroscience blends with associated fields leading to health careers, graduate school, and direct-to-career goals.

Students working toward completion of this degree choose coursework in Molecular/Cellular Neuroscience and Behavioral/Cognitive Neuroscience along with Pathway coursework in a choice of Pre-Health/Traditional Neuroscience, Philosophy, Medical Humanities, Computer Science, or Criminal Justice. Two optional Concentrations are available. The Medical, Health Sciences, and Research Concentration focuses students toward our neuroscience coursework particularly suited for health careers, graduate school and MCAT studying. The Computing and Neurotechnology Concentration focuses students toward careers or graduate studies in Applied Computing and Bioinformatics. The major provides both content and hands-on experience in various areas of neuroscience. An excellent choice for students with interests in pursuing neuroscience-related graduate programs, health careers (for example, students with post-graduate aspirations for attending medical, PA, dental, veterinary, or nursing school), or careers in private industry. Students will emerge from the major with the ability to think across disciplines, to formulate questions and seek answers, to interpret data and draw conclusions, and to effectively communicate the outcome of these processes to a larger audience. This suite of skills makes neuroscience majors eligible for a variety of career opportunities both within and outside the discipline of neuroscience.

## Other Information

All coursework taken for the neuroscience major must be completed with a grade of "C-" or better.

**Note for Double Majors in Neuroscience and Biology:**  
Beyond the neuroscience fundamentals courses, students cannot use a 3000/4000 level course to count toward both majors.

**Note for Double Majors in Neuroscience and Psychology:** Beyond the neuroscience fundamentals courses, students cannot use a 3000/4000 level course to count toward both majors. Students may overlap 3000/4000 level PSYC courses between the Psychology Neuroscience & Behavior concentration and the Neuroscience major.

**Note for Students Completing a Neuroscience Major and Psychology Minor:**

No psychology coursework will be allowed to count toward both programs.

**Note for Students Completing a Neuroscience Major and Biology Minor:**  
No 3000/4000 level course(s) may count toward both programs.

## Additional Laboratory Experiences

Students wishing additional laboratory experiences can enroll in Experiential Study in Neuroscience (NEUR 4960) or seek independent research opportunities with faculty conducting neuroscience research at UNO, UNMC, Creighton University, or Boys Town National Research Hospital.

## Fast Track

The Neuroscience faculty have developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BS in neuroscience desiring to pursue a MA in psychology, MS in human-centered computing or a MS in biomedical informatics.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.2.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

**Special Note:** Eligible undergraduate students may enroll in any dual level psychology or neuroscience course (PSYC 8xx6, NEUR 8xx6).

## Student Groups

Nu Rho Psi – National Honor Society in Neuroscience  
<http://nurhopsi.org>

Canvas Site – Neuroscience Majors should join the UNO Neuroscience Student Interest Group Canvas Site. If you are a Neuroscience Major and would like to be added to the Canvas page, email Dr. Sollars.

## Contact

Neuroscience Director, Dr. Suzanne Sollars: 402.554.3981

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**Website (<http://www.unomaha.edu/college-of-arts-and-sciences/neuroscience/>)**

## Degrees Offered

- Neuroscience, Bachelor of Science (p. 255)
- Neuroscience Minor (p. 263)

Neuroscience is a rapidly growing field, with a much higher than average projected jobs growth of in the next ten years (U.S. Department of Labor). Students in our program have been highly successful in admissions to graduate and medical schools and obtaining employment in neuroscience-related fields. Alumni from our Neuroscience Program have outstanding jobs as physicians, researchers, nurses, physician assistants, teachers, dentists, medical industry experts, technicians, and CEOs of neuroscience-related businesses.

Within your Neuroscience Program, you will gain knowledge in all aspects of how the brain and body function, with coursework in cellular, molecular, behavioral and cognitive neuroscience. The Pathway choices you have will build interdisciplinary strengths in Pre-Medicine, Pre-Health, Pre-Law, Philosophy, Medical Humanities, Computer Science, and careers in Criminal Justice fields. Built within the curriculum are opportunities for hands-on experimental experiences. We currently have neuroscience faculty with expertise in neuropharmacology, neuroimmunology, development, endocrinology, gerontology, genetics, sensory systems, behavior, philosophy, and biomechanics. Your curriculum will focus on understanding and engaging with new and innovative research within neuroscience, science writing, data analysis, and applications of the latest concepts in the field.

Career Opportunities:

- Physician & Other Healthcare Fields
- Data Analysis
- Research & Development
- Genetic Counseling
- Hospitals - Technology, Business, & Healthcare
- Universities/Colleges - Faculty, Research, Teaching, Administration
- Laboratories – Research Technicians & Research Associates
- Government Agencies
- Pharmaceutical & Other Science Industries
- Laboratory Software and Equipment
- Science Writing
- Neuroscience Consultancies
- Medical Illustrators, Neuroaesthetics, and Neuroarts



# Neuroscience, Bachelor of Science

To obtain a BS with a major in Neuroscience, a student must fulfill university, college, and departmental requirements. As an interdisciplinary major, Neuroscience major requirements meet the college breadth requirement.

## Neuroscience Bachelor of Science Requirements

| Code  | Title  | Credits      |
|---|--|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |  |              |
| Minimum of "C-" required  |  |              |
| <b>Fundamental Skills</b>   |  | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |  |              |
| ENGL 1150   | ENGLISH COMPOSITION I  |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                                  |              |
| <b>Oral Communication – 3 hrs.</b>  |  |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS  |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE   |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                    |              |
| or MATH 1130  | QUANTITATIVE LITERACY  |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                        |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT   |              |
| <b>Data Literacy – 3 hrs.</b>   |  |              |
| Select one from the following:  |  |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION  |              |
| STAT 1530   | ELEMENTARY STATISTICS  |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |              |
| <b>Breadth of Knowledge</b>   |  | <b>13</b>    |
| Social Science – 3 hrs.   |  |              |
| Humanities – 3 hrs.   |  |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |              |
| Arts – 3 hrs.   |  |              |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |  |              |
| Civic Knowledge and Engagement – 3 hrs.   |  |              |
| <b>MAJOR REQUIREMENTS</b>   |  |              |
| **Course will satisfy UNO's General Education requirement   |  |              |
| ^Course requires pre-requisite(s)   |  |              |
| Note: BIOL 1450 may be used either in Core or in Path, not both   |  |              |
| <b>Neuroscience Major - 50-59 Hours Required</b>  |  |              |
| <b>Required Neuroscience Fundamentals Courses (Core)</b>  |  | <b>20-23</b> |
| NEUR 1000   | SUPERHEROES, ZOMBIES, CYBORGS AND DROIDS: COULD THEY LIVE AMONG US? (** ^) |              |
| or BIOL 1450  | BIOLOGY I  |              |
| NEUR 1520   | INTRODUCTION TO NEUROSCIENCE I (^)   |              |
| NEUR 1540   | INTRODUCTION TO NEUROSCIENCE II (^)  |              |

|   |   |
|---|---|
| PSYC 3130   | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)  |
| or STAT 3000  | STATISTICAL METHODS I   |
| NEUR 3600   | RESEARCH METHODS IN NEUROSCIENCE (^)  |
| or PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY  |
| <b>Select one of the following:</b>                           |   |
| PHYS 1110 & PHYS 1154   | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^)                        |
| OR  |   |
| CHEM 1140 & CHEM 1144   | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) |
| OR  |   |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)                             |
| and   |   |
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)                              |
| <b>Neuroscience Pathways: select one of the following</b>     |   |
| <b>Pre-Health &amp; Traditional Path - 12-17 credit hours</b> |   |
| BIOL 1450   | BIOLOGY I (** ^)  |
| or BIOL 1750  | BIOLOGY II  |
| BIOL 2140   | GENETICS (^)  |
| <b>Select one of the following:</b>                           |   |
| PHYS 1120 & PHYS 1164   | PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II (^)                         |
| OR  |   |
| CHEM 2210 & CHEM 2214   | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)    |
| OR  |   |
| CHEM 2250 & CHEM 2260   | ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II (^)  |
| and   |   |
| CHEM 2274   | ORGANIC CHEMISTRY LABORATORY (^)  |
| <b>Philosophy Path - 12-14 credit hours</b>                   |   |
| NEUR 1560   | NEUROSCIENCE PATHWAYS TO DISCOVERY (^)  |
| or BIOL 1450  | BIOLOGY I   |
| or BIOL 1750  | BIOLOGY II  |
| or BIOL 2140  | GENETICS  |
| PHIL 1030   | INTRODUCTION TO PHILOSOPHY: BRAINS, MINDS, AND MACHINES (**)                              |
| PHIL 2030   | INTRODUCTION TO ETHICS (**)   |
| PHIL 1210   | CRITICAL REASONING (**)   |
| or PHIL 2010  | SYMBOLIC LOGIC  |
| or MEDH 2010  | SYMBOLIC LOGIC  |
| <b>Medical Humanities Path - 12-14 credit hours</b>           |   |
| NEUR 1560   | NEUROSCIENCE PATHWAYS TO DISCOVERY (^)  |
| or BIOL 1450  | BIOLOGY I   |
| or BIOL 1750  | BIOLOGY II  |
| or BIOL 2140  | GENETICS  |



|                |   |
|----------------|---|
| MEDH 1000      | INTRODUCTION TO MEDICAL HUMANITIES (**)                   |
| MEDH/HIST 2030 | HISTORY OF MEDICINE: FROM ANTIQUITY TO THE PRESENT (** ^) |
| MEDH/PHIL 2300 | BIOMEDICAL ETHICS   |

**Computing Path - 12-14 credit hours**

|              |   |
|--------------|---|
| NEUR 1560    | NEUROSCIENCE PATHWAYS TO DISCOVERY (^)                    |
| or BIOL 1450 | BIOLOGY I   |
| or BIOL 1750 | BIOLOGY II  |
| or BIOL 2140 | GENETICS  |
| CIST 1600    | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING (^) |
| or CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I                        |
| BIOI 1000    | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (**)                |
| BIOI 3000    | APPLIED BIOINFORMATICS (^)                                |

**Criminal Justice Path 12-14 credit hours**

|              |  |
|--------------|--|
| NEUR 1560    | NEUROSCIENCE PATHWAYS TO DISCOVERY           |
| or BIOL 1450 | BIOLOGY I                                    |
| or BIOL 1750 | BIOLOGY II                                   |
| or BIOL 2140 | GENETICS                                     |
| CRCJ 1010    | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**) |

**Choose two of the following**

|           |   |
|-----------|---|
| CRCJ 3350 | CRIMINOLOGY (^)                                   |
| CRCJ 4000 | MENTAL HEALTH AND THE CRIMINAL JUSTICE SYSTEM (^) |
| CRCJ 4500 | DRUGS AND CRIME (^)                               |
| CRCJ 4510 | VIOLENCE (^)                                      |

**Advanced Neuroscience Courses 18-19**

In addition to the required fundamentals courses, 18-19 credit hours as a combination from the Cornerstone Neuroscience Lecture (3 credits), Laboratory (3 – 4 credits), and Block I, Block II, and Block III Courses (12 credits) from the lists below must be selected. Within the 12-hour credit selection, at least 3 credits must come from Block I and at least 3 credits must come from Block II. To complete the 18 credits required, a minimum of 6 credits can be taken from a combination of Block I, Block II, and Block III. No more than three hours of Experiential Study in Neuroscience (NEUR 4960) may be applied to the Additional Neuroscience Courses category. NEUR 4910, NEUR 4920, and NEUR 4930 may be taken more than once as long as they are different topics. No courses can double-count within this 18-credit hour group.

**Select one of the following Cornerstone lab courses -**

|                |                                      |
|----------------|--------------------------------------|
| NEUR 4200      | ADVANCED NEUROSCIENCE LABORATORY (^) |
| NEUR/BIOL 4810 | BEHAVIORAL GENETICS (^)              |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)       |

**Select one of the following Cornerstone lecture courses that has not already been used to satisfy the Neuroscience Block Courses requirement below**

|                |   |
|----------------|---|
| NEUR 4000      | SYSTEMS NEUROSCIENCE (^)                |
| NEUR 4160      | NEUROPHARMACOLOGY (^)                   |
| NEUR 4330      | SOCIAL NEUROSCIENCE (^)                 |
| NEUR 4480      | NEUROIMMUNOLOGY (^)                     |
| NEUR/BIOL 4870 | MOLECULAR AND CELLULAR NEUROBIOLOGY (^) |
| NEUR/BIOL 4890 | GENES, BRAIN, AND BEHAVIOR (^)          |

PSYC/BIOL 4320 HORMONES & BEHAVIOR (^)

**Block I, II, and III Courses****Select at least one of the following from Block I Neuroscience Choices: Molecular and Cellular Neuroscience**

|                |  |
|----------------|--|
| NEUR 4000      | SYSTEMS NEUROSCIENCE (^)                         |
| NEUR 4160      | NEUROPHARMACOLOGY (^)                            |
| NEUR 4290      | NEUROETHOLOGY (^)                                |
| NEUR 4340      | ADVANCED BEHAVIORAL NEUROSCIENCE (^)             |
| NEUR 4480      | NEUROIMMUNOLOGY (^)                              |
| NEUR 4640      | NEURAL MECHANISMS OF SUBSTANCE USE DISORDERS (^) |
| NEUR 4840      | GLIA IN HEALTH AND DISEASE (^)                   |
| NEUR 4850      | NEUROBIOLOGY OF LEARNING AND MEMORY (^)          |
| NEUR 4870      | MOLECULAR AND CELLULAR NEUROBIOLOGY (^)          |
| NEUR/BIOL 4890 | GENES, BRAIN, AND BEHAVIOR (^)                   |
| NEUR 4910      | SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 1 (^)     |

**Select at least one of the following from Block II Neuroscience Choices: Behavioral and Cognitive Neuroscience**

|                     |  |
|---------------------|--|
| NEUR/BIOL/GERO 3500 | BIOLOGICAL PRINCIPLES OF AGING (^)           |
| NEUR/GERO 4050      | ADVANCED BIOLOGY OF AGING                    |
| NEUR/PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)                  |
| NEUR 4330           | SOCIAL NEUROSCIENCE (^)                      |
| NEUR/BMCH 4650      | NEUROMECHANICS OF HUMAN MOVEMENT (^)         |
| NEUR 4710           | AI IN HEALTHCARE AND NEUROSCIENCE            |
| NEUR 4920           | SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 2 (^) |
| PSYC 4090           | COGNITIVE NEUROSCIENCE (^)                   |
| PSYC 4210           | SENSATION AND PERCEPTION (^)                 |
| PSYC/PHIL 4250      | LIMITS OF CONSCIOUSNESS (^)                  |
| PSYC/BIOL 4270      | ANIMAL BEHAVIOR (^)                          |
| PSYC/BIOL 4320      | HORMONES & BEHAVIOR (^)                      |

**Block III Additional Neuroscience Choices:**

|           |   |
|-----------|---|
| NEUR 4930 | SPECIAL TOPICS IN NEUROSCIENCE - NEURO ELECTIVE BLOCK (^) |
| NEUR 4960 | EXPERIENTIAL STUDY IN NEUROSCIENCE (^)                    |

**College Breadth**

College of Arts and Sciences' college breadth requirement satisfied by this major

**Bachelor Science Cognate Requirement 15**

Students must complete 15 credits worth of a cognate set of courses (see below) OR may choose a minor of at least 15 hours or a double major. Courses taken within the major may not also be used toward the completion of cognate coursework. One cognate course may double-count with your Gen Ed requirements. No more than 6 hours of cognate coursework may be at the 1000 level. At least 3 hours of cognate coursework must be at the 3000-4000 level. Note that some classes have prerequisites.

ANTH 1050 INTRODUCTION TO ANTHROPOLOGY (\*\*)

|                       |   |
|-----------------------|---|
| ANTH 3910             | INTRODUCTION TO PHYSICAL ANTHROPOLOGY (** ^)                                  |
| ANTH 4230             | ETHNOMEDICINES OF THE AMERICAS (^)  |
| ANTH 4240             | MEDICAL ANTHROPOLOGY  |
| BIOI 1000             | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (**)                                    |
| BIOL 2740             | HUMAN ANATOMY AND PHYSIOLOGY I (^)  |
| BIOL 2840             | HUMAN ANATOMY AND PHYSIOLOGY II (^)   |
| BIOL 3020             | MOLECULAR BIOLOGY OF THE CELL (^)   |
| BIOL 3240             | INTRODUCTION TO IMMUNOLOGY (^)  |
| BIOL 4110             | STATISTICS FOR BIOLOGICAL SCIENCES (^)  |
| BIOL 4130             | MOLECULAR GENETICS (^)  |
| BIOL 4140             | CELLULAR BIOLOGY (^)  |
| BIOL 4230             | EVOLUTION (^)   |
| BIOL 4260             | BEHAVIORAL ECOLOGY (^)  |
| BIOL 4650 & BIOL 4654 | BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY (^)                              |
| BIOL 4730             | VERTEBRATE ENDOCRINOLOGY (^)  |
| BIOL 4740             | ANIMAL PHYSIOLOGY (^)   |
| BIOL 4850             | DEVELOPMENTAL BIOLOGY (^)   |
| BIOL 4860             | COMPARATIVE GENOMICS (^)  |
| BIOL 4960             | ADVANCED GENETICS (^)   |
| BMCH 2400             | HUMAN PHYSIOLOGY & ANATOMY I (**)   |
| BMCH 2500             | HUMAN PHYSIOLOGY AND ANATOMY II (^)   |
| BMCH 4100             | BIOINSPIRED ROBOTICS  |
| CHEM 3650 & CHEM 3654 | FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)  |
| CHEM 4610             | BIOCHEMISTRY OF METABOLISM (^)  |
| CHEM 4650 & CHEM 4654 | BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY (^)                              |
| CSCI 1200 & CSCI 1204 | COMPUTER SCIENCE PRINCIPLES and COMPUTER SCIENCE PRINCIPLES LABORATORY (** ^) |
| ENVN 4320             | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH (^)                                |
| MATH 1940             | CALCULUS FOR BIOMEDICINE (^)  |
| PHIL 2020             | INTRODUCTION TO PHILOSOPHY OF MIND  |
| PHIL 3650             | PHILOSOPHY OF MIND (^)  |
| PHIL 4220             | NEUROETHICS (^)   |
| PHYS 3300             | INTRODUCTION TO BIOMEDICAL PHYSICS (^)  |
| PHYS 3500             | ELEMENTS OF ELECTRONICS (^)   |
| PHYS 4500             | BIOLOGICAL PHYSICS (^)  |
| PSYC 1010             | INTRODUCTION TO PSYCHOLOGY I (**)   |
| PSYC 1020             | INTRODUCTION TO PSYCHOLOGY II (^)   |
| PSYC 2040             | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY                                     |
| PSYC 3520             | CHILD PSYCHOLOGY (^)  |
| PSYC 4020             | LEARNING (^)  |
| PSYC 4024             | LABORATORY IN PSYCHOLOGY: LEARNING (^)  |
| PSYC 4234             | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)                         |

|           |   |
|-----------|---|
| PSYC 4440 | ABNORMAL PSYCHOLOGY (^)                       |
| PSYC 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |
| PSYC 4470 | MENTAL HEALTH AND AGING (^)                   |
| PSYC 4990 | SENIOR THESIS (^)                             |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**Concentration Offered**

- Computing & Neurotechnology (p. 259)
- Medical, Health Sciences, and Research Concentration in Neuroscience (p. 261)

**Neuroscience Bachelor of Science Four Year Plan****Freshman**

| <b>Fall</b>   |   | <b>Credits</b> |
|---|---|----------------|
| NEUR 1000 or BIOL 1450  | SUPERHEROES, ZOMBIES, CYBORGS AND DROIDS: COULD THEY LIVE AMONG US? or BIOLOGY I  | 3-5            |
| ENGL 1150   | ENGLISH COMPOSITION I   | 3              |
| MATH 1120 or MATH 1130 or MATH 1140 or MATH 1300  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (See advisor for other options) or QUANTITATIVE LITERACY or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS or COLLEGE ALGEBRA WITH SUPPORT | 3-4            |
| NEUR 1520   | INTRODUCTION TO NEUROSCIENCE I  | 3              |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |                |

**Credits 12-15****Spring**

|                             |   |     |
|-----------------------------|---|-----|
| ENGL 1160                   | COLLEGE RESEARCH AND INFORMATION LITERACY | 3   |
| NEUR 1540                   | INTRODUCTION TO NEUROSCIENCE II           | 3   |
| Neuroscience Pathway Course |   | 3-5 |
| Neuroscience Pathway Course |   | 3-5 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 12-16****Sophomore**

| <b>Fall</b>                 |  |   |
|-----------------------------|--|---|
| CHEM 1140 & CHEM 1144       | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (^) | 5 |
| PSYC 3130                   | STATISTICS FOR THE BEHAVIORAL SCIENCES   | 3 |
| Neuroscience Block 2 Course |  | 3 |

|  |   |
|--|---|
| General Education Course or Elective   | 3 |
| *CHEM 1140: Taking both CHEM 1180-1184 and 1190-1194 will substitute for CHEM 1140-1144. Alternatively, students may take PHYS 1110-1154 in lieu of Chemistry coursework.  |   |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |   |

**Credits 14**

**Spring**

|                           |   |     |
|---------------------------|---|-----|
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                        | 3   |
| NEUR 3600<br>or PSYC 3140 | RESEARCH METHODS IN<br>NEUROSCIENCE<br>or RESEARCH METHODS IN<br>PSYCHOLOGY | 3-4 |

|                                      |     |
|--------------------------------------|-----|
| Neuroscience Pathway Course          | 3-5 |
| General Education Course or Elective | 3   |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 12-15**

**Junior****Fall**

|   |     |
|---|-----|
| Neuroscience Pathway Course or Elective | 3-4 |
| Neuroscience Block 1 Course             | 3   |
| Cognate Course                          | 3   |
| General Education Course or Elective    | 3   |
| Elective                                | 3   |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15-16**

**Spring**

|           |                                     |     |
|-----------|-------------------------------------|-----|
| NEUR 4200 | ADVANCED NEUROSCIENCE<br>LABORATORY | 3-4 |
|-----------|-------------------------------------|-----|

OR

PSYC/BIOL 4280 ANIMAL BEHAVIOR LABORATORY

OR

NEUR/BIOL 4810 BEHAVIORAL GENETICS

|   |   |
|---|---|
| Cornerstone Neuroscience Lecture Course | 3 |
| General Education Course or Elective    | 3 |
| General Education Course or Elective    | 3 |
| Cognate Course                          | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15-16**

**Senior****Fall**

|  |   |
|--|---|
| Neuroscience coursework (Block 1, 2, or 3) | 3 |
| General Education Course or Elective       | 3 |

|                |   |
|----------------|---|
| Cognate Course | 3 |
| Cognate Course | 3 |
| Elective       | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|  |   |
|--|---|
| Neuroscience coursework (Block 1, 2, or 3) | 3 |
| Cognate Course                             | 3 |
| Elective                                   | 3 |
| Elective                                   | 3 |
| Elective                                   | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Total Credits 110-122**

**College Breadth:** The Neuroscience major satisfies Option 3 of the CAS Breadth Requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

# Computing & Neurotechnology Concentration

## Neuroscience, Bachelor of Science with a Concentration in Computing and Neurotechnology Requirements

| Code  | Title   | Credits      |
|---|---|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |              |
| Minimum of "C-" required  |   |              |
| <b>Fundamental Skills</b>   |   | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |   |              |
| ENGL 1150   | ENGLISH COMPOSITION I   |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                                 |              |
| <b>Oral Communication – 3 hrs.</b>  |   |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS   |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE  |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                   |              |
| or MATH 1130  | QUANTITATIVE LITERACY   |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                       |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT  |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |              |
| STAT 1530   | ELEMENTARY STATISTICS   |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| <b>MAJOR REQUIREMENTS</b>   |   |              |
| **Course will satisfy UNO's General Education requirement   |   |              |
| ^Course requires pre-requisite(s)   |   |              |
| <b>Neuroscience Major - 53-57 Hours Required</b>  |   |              |
| <b>Required Neuroscience Fundamentals Courses (Core)</b>  |   | <b>20-23</b> |
| NEUR 1000   | SUPERHEROES, ZOMBIES, CYBORGS AND DROIDS: COULD THEY LIVE AMONG US? (**^) |              |
| or BIOL 1450  | BIOLOGY I   |              |
| NEUR 1520   | INTRODUCTION TO NEUROSCIENCE I (^)  |              |
| NEUR 1540   | INTRODUCTION TO NEUROSCIENCE II (^)                                       |              |

|   |   |
|---|---|
| PSYC 3130   | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)  |
| or STAT 3000  | STATISTICAL METHODS I   |
| NEUR 3600   | RESEARCH METHODS IN NEUROSCIENCE (^)  |
| or PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY  |
| Select one of the following:  |   |
| CHEM 1140 & CHEM 1144   | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) |
| or  |   |
| PHYS 1110 & PHYS 1154   | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^)                        |
| or both   |   |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)                             |
| and   |   |
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)                              |
| <b>Required Courses</b>   |   |
| <b>6</b>  |   |
| <b>*indicates also a Computing Path course</b>                              |   |
| CIST 1600   | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING (^, *, SUB HCC 8006 FOR FAST TRACK) |
| or CIST 1400  | INTRODUCTION TO COMPUTER SCIENCE I  |
| BIOI 1000   | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (** (^) Sub HCC 8006 for Fast Track)                |
| <b>Select 2 from the following courses (At least one from ACMP or BIOI)</b> |   |
| <b>6</b>  |   |
| ACMP 1100   | INTRODUCTION TO INFORMATION SECURITY (**)   |
| ACMP 1200   | HUMAN-CENTERED COMPUTING (**)   |
| ACMP 2900   | SPECIAL TOPICS IN APPLIED COMPUTING AND INFORMATICS                                       |
| ACMP 3200   | DATA STRUCTURES AND ALGORITHMS FOR APPLIED COMPUTING AND INFORMATICS (^)                  |
| ACMP 3220   | CREATIVITY AND INNOVATION   |
| ACMP 3330   | DESIGN METHODS AND PROTOTYPING (^)  |
| ACMP 4000   | SPECIAL TOPICS IN IT INNOVATION   |
| ACMP/CSCI 4260  | USER EXPERIENCE DESIGN (SUB HCC/ CSCI 8266 FOR FAST TRACK STUDENTS)                       |
| BIOI 3000   | APPLIED BIOINFORMATICS (^,*)  |
| BIOI 4890   | COMPUTERIZED GENETIC SEQUENCE ANALYSIS (SUB BIOI 8896 FOR FAST TRACK STUDENTS)            |
| NEUR 4000   | SYSTEMS NEUROSCIENCE (^)  |
| NEUR 4160   | NEUROPHARMACOLOGY (^)   |
| NEUR 4330   | SOCIAL NEUROSCIENCE (^)   |
| NEUR 4340   | ADVANCED BEHAVIORAL NEUROSCIENCE (^)  |
| NEUR 4480   | NEUROIMMUNOLOGY (^)   |
| NEUR 4840   | GLIA IN HEALTH AND DISEASE (^)  |
| NEUR 4870   | MOLECULAR AND CELLULAR NEUROBIOLOGY (^)   |

Other courses in NEUR, BIOL or ACMP approved by advisor. Students who have applied for the Fast Track Programs may take graduate versions of these courses. Nine credit hours of graduate-level coursework may count toward the Neuroscience Major for students in the Fast Track Program of study.

In addition to the required fundamentals courses, 18-19 credit hours as a combination from the Cornerstone Neuroscience Lecture (3 credits), Laboratory (3 – 4 credits), and Block I, Block II, and Block III Courses (12 credits) from the lists below must be selected. Within the 12-hour credit selection, at least 3 credits must come from Block I and at least 3 credits must come from Block II. To complete the 18 credits required, a minimum of 6 credits can be taken from a combination of Block I, Block II, and Block III. No more than three hours of Experiential Study in Neuroscience (NEUR 4960) may be applied to the Additional Advanced Neuroscience Courses category. NEUR 4910, NEUR 4920, and NEUR 4930 may be taken more than once as long as they are different topics. No courses can double-count within this 18-credit hour group.

#### Advanced Neuroscience Coursework (18-19)

In addition to completing the required fundamentals courses, students must select 18–19 credit hours from the following components:

##### Cornerstone Neuroscience Lecture **3**

Select one of the following lecture courses, unless it has already been used to satisfy the Supporting Neuroscience Block Courses requirement:

|                |   |
|----------------|---|
| NEUR 4000      | SYSTEMS NEUROSCIENCE (^)                |
| NEUR 4160      | NEUROPHARMACOLOGY (^)                   |
| NEUR 4330      | SOCIAL NEUROSCIENCE (^)                 |
| NEUR 4480      | NEUROIMMUNOLOGY (^)                     |
| NEUR/BIOL 4870 | MOLECULAR AND CELLULAR NEUROBIOLOGY (^) |
| NEUR/BIOL 4890 | GENES, BRAIN, AND BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)                 |

##### Cornerstone Neuroscience Laboratory **3-4**

|                |                                  |
|----------------|----------------------------------|
| NEUR 4200      | ADVANCED NEUROSCIENCE LABORATORY |
| NEUR/BIOL 4810 | BEHAVIORAL GENETICS              |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY       |

##### Block I, II, and III Courses **12**

Complete 12 credits total across Blocks I, II, and III, according to these rules:

At least one course (3 credits) must be from Block I (Molecular and/or Cellular Neuroscience)

At least one course (3 credits) must be from Block II (Behavioral and/or Cognitive Neuroscience)

The remaining credits (6 or more) may be selected from any combination of Blocks I, II, or III to reach the 12-credit total.

##### Block I (Molecular and/or Cellular Neuroscience)

|           |  |
|-----------|--|
| NEUR 4000 | SYSTEMS NEUROSCIENCE (^)                         |
| NEUR 4160 | NEUROPHARMACOLOGY (^)                            |
| NEUR 4290 | NEUROETHOLOGY (^)                                |
| NEUR 4340 | ADVANCED BEHAVIORAL NEUROSCIENCE (^)             |
| NEUR 4480 | NEUROIMMUNOLOGY (^)                              |
| NEUR 4640 | NEURAL MECHANISMS OF SUBSTANCE USE DISORDERS (^) |
| NEUR 4840 | GLIA IN HEALTH AND DISEASE (^)                   |
| NEUR 4850 | NEUROBIOLOGY OF LEARNING AND MEMORY (^)          |

|   |   |
|---|---|
| NEUR 4870   | MOLECULAR AND CELLULAR NEUROBIOLOGY (^)                   |
| NEUR/BIOL 4890  | GENES, BRAIN, AND BEHAVIOR (^)                            |
| NEUR 4910   | SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 1 (^)              |
| <b>Block II (Behavioral and/or Cognitive Neuroscience)</b>  |   |
| NEUR/BIOL/GERO 3500   | BIOLOGICAL PRINCIPLES OF AGING (^)                        |
| NEUR/GERO 4050  | ADVANCED BIOLOGY OF AGING                                 |
| NEUR/PSYC 4230  | BEHAVIORAL NEUROSCIENCE (^)                               |
| NEUR 4330   | SOCIAL NEUROSCIENCE (^)                                   |
| NEUR 4650   | NEUROMECHANICS OF HUMAN MOVEMENT (^)                      |
| or BMCH 4650  | NEUROMECHANICS OF HUMAN MOVEMENT                          |
| NEUR 4710   | AI IN HEALTHCARE AND NEUROSCIENCE (^)                     |
| NEUR 4920   | SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 2 (^)              |
| PSYC 4090   | COGNITIVE NEUROSCIENCE (^)                                |
| PSYC 4210   | SENSATION AND PERCEPTION (^)                              |
| PSYC/PHIL 4250  | LIMITS OF CONSCIOUSNESS (^)                               |
| PSYC/BIOL 4270  | ANIMAL BEHAVIOR (^)                                       |
| PSYC/BIOL 4320  | HORMONES & BEHAVIOR (^)                                   |
| <b>Block III (Additional Advanced Neuroscience Choices)</b>   |   |
| NEUR 4930   | SPECIAL TOPICS IN NEUROSCIENCE - NEURO ELECTIVE BLOCK (^) |
| NEUR 4960   | EXPERIENTIAL STUDY IN NEUROSCIENCE (^)                    |
| <b>Important Notes:</b>   |   |
| No more than 3 credits of NEUR 4960 (Experiential Study in Neuroscience) may count toward these 18–19 credits.  |   |
| NEUR 4910, NEUR 4920, and NEUR 4930 may be repeated for credit provided the topics are different.   |   |
| Courses cannot be “double-counted” within this set of 18–19 credits (i.e., each course may only fulfill one requirement in this category).  |   |
| <b>College Breadth <b>0</b></b>   |   |
| Neuroscience majors satisfy College of Arts and Sciences’ Option 3 for college breadth, a CAS interdisciplinary major.  |   |
| <b>Bachelor Science Cognate Requirement <b>15</b></b>   |   |
| Students must complete 15 credits worth of a cognate set of courses (see below) OR may choose a minor of at least 15 hours or a double major. Courses taken within the major may not also be used toward the completion of cognate coursework. Six (6) hours of cognate coursework may double-count with your Gen Ed requirements. No more than 6 hours of cognate coursework may be at the 1000 level. At least 3 hours of cognate coursework must be at the 3000-4000 level. Note that some classes have prerequisites. |   |
| ANTH 1050   | INTRODUCTION TO ANTHROPOLOGY (**)                         |
| ANTH 3910   | INTRODUCTION TO PHYSICAL ANTHROPOLOGY (** ^)              |
| ANTH 4230   | ETHNOMEDICINES OF THE AMERICAS (^)                        |
| ANTH 4240   | MEDICAL ANTHROPOLOGY                                      |
| BIOL 1000   | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (**)                |
| BIOL 2740   | HUMAN ANATOMY AND PHYSIOLOGY I (^)                        |



|                          |   |
|--------------------------|---|
| BIOL 2840                | HUMAN ANATOMY AND PHYSIOLOGY II (^)   |
| BIOL 3020                | MOLECULAR BIOLOGY OF THE CELL (^)   |
| BIOL 3240                | INTRODUCTION TO IMMUNOLOGY (^)  |
| BIOL 4110                | STATISTICS FOR BIOLOGICAL SCIENCES (^)  |
| BIOL 4130                | MOLECULAR GENETICS (^)  |
| BIOL 4140                | CELLULAR BIOLOGY (^)  |
| BIOL 4230                | EVOLUTION (^)   |
| BIOL 4260                | BEHAVIORAL ECOLOGY (^)  |
| BIOL 4650<br>& BIOL 4654 | BIOCHEMISTRY I<br>and BIOCHEMISTRY I LABORATORY (^)                                 |
| BIOL 4730                | VERTEBRATE ENDOCRINOLOGY (^)  |
| BIOL 4740                | ANIMAL PHYSIOLOGY (^)   |
| BIOL 4850                | DEVELOPMENTAL BIOLOGY (^)   |
| BIOL 4860                | COMPARATIVE GENOMICS (^)  |
| BIOL 4960                | ADVANCED GENETICS (^)   |
| BMCH 2400                | HUMAN PHYSIOLOGY & ANATOMY I (**)   |
| BMCH 2500                | HUMAN PHYSIOLOGY AND ANATOMY II (^)   |
| BMCH 4100                | BIOINSPIRED ROBOTICS  |
| CHEM 3650<br>& CHEM 3654 | FUNDAMENTALS OF BIOCHEMISTRY<br>and FUNDAMENTALS OF<br>BIOCHEMISTRY LABORATORY (^)  |
| CHEM 4610                | BIOCHEMISTRY OF METABOLISM (^)  |
| CHEM 4650<br>& CHEM 4654 | BIOCHEMISTRY I<br>and BIOCHEMISTRY I LABORATORY (^)                                 |
| CSCI 1200<br>& CSCI 1204 | COMPUTER SCIENCE PRINCIPLES<br>and COMPUTER SCIENCE PRINCIPLES<br>LABORATORY (** ^) |
| ENVN 4320                | ECOLOGICAL SUSTAINABILITY AND<br>HUMAN HEALTH (^)                                   |
| MATH 1940                | CALCULUS FOR BIOMEDICINE (^)  |
| PHIL 2020                | INTRODUCTION TO PHILOSOPHY OF<br>MIND   |
| PHIL 3650                | PHILOSOPHY OF MIND (^)  |
| PHIL 4220                | NEUROETHICS (^)   |
| PHYS 3300                | INTRODUCTION TO BIOMEDICAL<br>PHYSICS (^)   |
| PHYS 3500                | ELEMENTS OF ELECTRONICS (^)   |
| PHYS 4500                | BIOLOGICAL PHYSICS (^)  |
| PSYC 1010                | INTRODUCTION TO PSYCHOLOGY I (**)   |
| PSYC 1020                | INTRODUCTION TO PSYCHOLOGY II (^)   |
| PSYC 2024                | EXPLORATIONS IN THE SCIENCE OF<br>PSYCHOLOGY (^)                                    |
| PSYC 3520                | CHILD PSYCHOLOGY (^)  |
| PSYC 4020                | LEARNING (^)  |
| PSYC 4024                | LABORATORY IN PSYCHOLOGY:<br>LEARNING (^)   |
| PSYC 4234                | LABORATORY IN PSYCHOLOGY:<br>BEHAVIORAL NEUROSCIENCE (^)                            |
| PSYC 4440                | ABNORMAL PSYCHOLOGY (^)   |
| PSYC 4460                | PSYCHOLOGY OF ADULT DEVELOPMENT<br>AND AGING (^)                                    |
| PSYC 4470                | MENTAL HEALTH AND AGING (^)   |
| PSYC 4990                | SENIOR THESIS (^)   |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Medical, Health Sciences, and Research Concentration in Neuroscience

### Neuroscience, Bachelor of Science - Medical, Health Sciences and Research Concentration in Neuroscience

| Code  | Title   | Credits      |
|---|---|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |              |
| Minimum of "C-" required  |   |              |
| <b>Fundamental Skills</b>   |   | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |   |              |
| ENGL 1150   | ENGLISH COMPOSITION I   |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |              |
| <b>Oral Communication – 3 hrs.</b>  |   |              |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |              |
| STAT 1530   | ELEMENTARY STATISTICS   |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| <b>MAJOR REQUIREMENTS</b>   |   |              |
| **Course will satisfy UNO's General Education requirement   |   |              |
| ^Course requires pre-requisite(s)   |   |              |
| Note: BIOL 1450 may be used either in Core or in Path, not both   |   |              |
| <b>Neuroscience Major - 50-56 Hours Required</b>  |   |              |
| <b>Required Neuroscience Fundamentals Courses (Core)</b>  |   | <b>20-23</b> |
| NEUR 1000<br>or BIOL 1450   | SUPERHEROES, ZOMBIES, CYBORGS AND DROIDS: COULD THEY LIVE AMONG US? (** ^)<br>BIOLOGY I   |              |
| NEUR 1520   | INTRODUCTION TO NEUROSCIENCE I (^)  |              |
| NEUR 1540   | INTRODUCTION TO NEUROSCIENCE II (^)   |              |



|              |  |
|--------------|--|
| PSYC 3130    | STATISTICS FOR THE BEHAVIORAL SCIENCES (^) |
| or STAT 3000 | STATISTICAL METHODS I                      |
| NEUR 3600    | RESEARCH METHODS IN NEUROSCIENCE (^)       |
| or PSYC 3140 | RESEARCH METHODS IN PSYCHOLOGY             |

**Select one of the following:**

|                       |  |
|-----------------------|--|
| PHYS 1110 & PHYS 1154 | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^) |
|-----------------------|--|

OR

|                       |   |
|-----------------------|---|
| CHEM 1140 & CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) |
|-----------------------|---|

OR

|                       |   |
|-----------------------|---|
| CHEM 1180 & CHEM 1184 | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^) |
|-----------------------|---|

and

|                       |  |
|-----------------------|--|
| CHEM 1190 & CHEM 1194 | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^) |
|-----------------------|--|

**Refer to Neuroscience Bachelor of Science for required 12-17 hours of pathway courses**

**MEDICAL, HEALTH SCIENCES, AND RESEARCH CONCENTRATION IN NEUROSCIENCE REQUIREMENTS:**

**Select 1 from the Following. Note: BIOL 1450 may be used either in Core requirement or concentration, not both.** **3-5**

|  |                                    |
|--|------------------------------------|
| These courses can count toward 3-5 hours in the pathways |                                    |
| NEUR 1560  | NEUROSCIENCE PATHWAYS TO DISCOVERY |
| BIOL 1450  | BIOLOGY I (**)                     |
| BIOL 2140  | GENETICS (^)                       |

**Select 3 from the Following Courses:** **9**

|  |  |
|--|--|
| These courses can count toward the 18-19 Advanced Neuroscience Lecture Courses |  |
| NEUR 4000  | SYSTEMS NEUROSCIENCE (^)                         |
| NEUR 4160  | NEUROPHARMACOLOGY (^)                            |
| NEUR 4330  | SOCIAL NEUROSCIENCE (^)                          |
| NEUR 4340  | ADVANCED BEHAVIORAL NEUROSCIENCE (^)             |
| NEUR 4480  | NEUROIMMUNOLOGY (^)                              |
| NEUR 4640  | NEURAL MECHANISMS OF SUBSTANCE USE DISORDERS (^) |
| NEUR 4840  | GLIA IN HEALTH AND DISEASE (^)                   |
| NEUR 4870  | MOLECULAR AND CELLULAR NEUROBIOLOGY (^)          |
| NEUR 4890  | GENES, BRAIN, AND BEHAVIOR (^)                   |
| NEUR 4910  | SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 1 (^)     |

Other courses in NEUR approved by advisor.

**Advanced Neuroscience Courses** **18-19**

In addition to the required fundamentals courses, 18-19 credit hours as a combination from the Cornerstone Neuroscience Lecture (3 credits), Laboratory (3 – 4 credits), and Block I, Block II, and Block III Courses (12 credits) from the lists below must be selected. Within the 12 hour credit selection, at least 3 credits must come from Block I and at least 3 credits must come from Block II. To complete the 18 credits required, a minimum of 6 credits can be taken from a combination of Block I, Block II, and Block III. No more than three hours of Experiential Study in Neuroscience (NEUR 4960) may be applied to the Additional Neuroscience Courses category. NEUR 4910, NEUR 4920, and NEUR 4930 may be taken more than once as long as they are different topics. No courses can double-count within this 18 credit hour group.

**Select one of the following Cornerstone lab courses -**

|                |                                      |
|----------------|--------------------------------------|
| NEUR 4200      | ADVANCED NEUROSCIENCE LABORATORY (^) |
| NEUR/BIOL 4810 | BEHAVIORAL GENETICS (^)              |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)       |

**Select one of the following Cornerstone lecture courses that has not already been used to satisfy the Neuroscience Block Courses requirement below**

|                |   |
|----------------|---|
| NEUR 4000      | SYSTEMS NEUROSCIENCE (^)                |
| NEUR 4160      | NEUROPHARMACOLOGY (^)                   |
| NEUR 4330      | SOCIAL NEUROSCIENCE (^)                 |
| NEUR 4480      | NEUROIMMUNOLOGY (^)                     |
| NEUR/BIOL 4870 | MOLECULAR AND CELLULAR NEUROBIOLOGY (^) |
| NEUR/BIOL 4890 | GENES, BRAIN, AND BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)                 |

**Block I, II, and III Courses**

**Select at least one of the following from Block I Neuroscience Choices: Molecular and Cellular Neuroscience**

|           |  |
|-----------|--|
| NEUR 4000 | SYSTEMS NEUROSCIENCE (^)                         |
| NEUR 4160 | NEUROPHARMACOLOGY (^)                            |
| NEUR 4290 | NEUROETHOLOGY (^)                                |
| NEUR 4340 | ADVANCED BEHAVIORAL NEUROSCIENCE (^)             |
| NEUR 4480 | NEUROIMMUNOLOGY (^)                              |
| NEUR 4640 | NEURAL MECHANISMS OF SUBSTANCE USE DISORDERS (^) |
| NEUR 4840 | GLIA IN HEALTH AND DISEASE (^)                   |
| NEUR 4850 | NEUROBIOLOGY OF LEARNING AND MEMORY (^)          |
| NEUR 4870 | MOLECULAR AND CELLULAR NEUROBIOLOGY (^)          |
| NEUR 4890 | GENES, BRAIN, AND BEHAVIOR (^)                   |
| NEUR 4910 | SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 1 (^)     |

**Select at least one of the following from Block II Neuroscience Choices: Behavioral and Cognitive Neuroscience**

|                     |                                      |
|---------------------|--------------------------------------|
| NEUR/BIOL/GERO 3500 | BIOLOGICAL PRINCIPLES OF AGING (^)   |
| NEUR/GERO 4050      | ADVANCED BIOLOGY OF AGING            |
| NEUR/PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)          |
| NEUR 4330           | SOCIAL NEUROSCIENCE (^)              |
| NEUR/BMCH 4650      | NEUROMECHANICS OF HUMAN MOVEMENT (^) |

|   |  |
|---|--|
| NEUR 4920   | SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 2 (^)                                 |
| PSYC 4090   | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210   | SENSATION AND PERCEPTION (^)   |
| PSYC/PHIL 4250  | LIMITS OF CONSCIOUSNESS  |
| PSYC/BIOL 4270  | ANIMAL BEHAVIOR (^)  |
| PSYC/BIOL 4320  | HORMONES & BEHAVIOR (^)  |
| <b>Block III Additional Advanced Neuroscience Choices:</b>  |  |
| NEUR 4930   | SPECIAL TOPICS IN NEUROSCIENCE - NEURO ELECTIVE BLOCK (^)                    |
| NEUR 4960   | EXPERIENTIAL STUDY IN NEUROSCIENCE (^)                                       |
| <b>College Breadth</b>  | <b>0</b>   |
| Neuroscience majors satisfy College of Arts and Sciences' Option 3 for college breadth, a CAS comprehensive major.  |  |
| <b>Bachelor Science Cognate Requirement</b>   | <b>15</b>  |
| Students must complete 15 credits worth of a cognate set of courses (see below) OR may choose a minor of at least 15 hours or a double major. Courses taken within the major may not also be used toward the completion of cognate coursework. Six (6) hours of cognate coursework may double-count with your Gen Ed requirements. No more than 6 hours of cognate coursework may be at the 1000 level. At least 3 hours of cognate coursework must be at the 3000-4000 level. Note that some classes have prerequisites. |  |
| ANTH 1050   | INTRODUCTION TO ANTHROPOLOGY (**)  |
| ANTH 3910   | INTRODUCTION TO PHYSICAL ANTHROPOLOGY (** ^)                                 |
| ANTH 4230   | ETHNOMEDICINES OF THE AMERICAS (^)   |
| ANTH 4240   | MEDICAL ANTHROPOLOGY   |
| BIOL 1000   | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (**)                                   |
| BIOL 2740   | HUMAN ANATOMY AND PHYSIOLOGY I (^)   |
| BIOL 2840   | HUMAN ANATOMY AND PHYSIOLOGY II (^)  |
| BIOL 3020   | MOLECULAR BIOLOGY OF THE CELL (^)  |
| BIOL 3240   | INTRODUCTION TO IMMUNOLOGY (^)   |
| BIOL 4110   | STATISTICS FOR BIOLOGICAL SCIENCES (^)                                       |
| BIOL 4130   | MOLECULAR GENETICS (^)   |
| BIOL 4140   | CELLULAR BIOLOGY (^)   |
| BIOL 4230   | EVOLUTION (^)  |
| BIOL 4260   | BEHAVIORAL ECOLOGY (^)   |
| BIOL 4650 & BIOL 4654   | BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY (^)                             |
| BIOL 4730   | VERTEBRATE ENDOCRINOLOGY (^)   |
| BIOL 4740   | ANIMAL PHYSIOLOGY (^)  |
| BIOL 4850   | DEVELOPMENTAL BIOLOGY (^)  |
| BIOL 4860   | COMPARATIVE GENOMICS (^)   |
| BIOL 4960   | ADVANCED GENETICS (^)  |
| BMCH 2400   | HUMAN PHYSIOLOGY & ANATOMY I (**)  |
| BMCH 2500   | HUMAN PHYSIOLOGY AND ANATOMY II (^)  |
| BMCH 4100   | BIOINSPIRED ROBOTICS   |
| CHEM 3650 & CHEM 3654   | FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^) |

|                       |   |
|-----------------------|---|
| CHEM 4610             | BIOCHEMISTRY OF METABOLISM (^)  |
| CHEM 4650 & CHEM 4654 | BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY (^)                              |
| CSCI 1200 & CSCI 1204 | COMPUTER SCIENCE PRINCIPLES and COMPUTER SCIENCE PRINCIPLES LABORATORY (** ^) |
| ENVN 4320             | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH (^)                                |
| MATH 1940             | CALCULUS FOR BIOMEDICINE (^)  |
| PHIL 2020             | INTRODUCTION TO PHILOSOPHY OF MIND  |
| PHIL 3650             | PHILOSOPHY OF MIND (^)  |
| PHIL 4220             | NEUROETHICS (^)   |
| PHYS 3300             | INTRODUCTION TO BIOMEDICAL PHYSICS (^)  |
| PHYS 3500             | ELEMENTS OF ELECTRONICS (^)   |
| PHYS 4500             | BIOLOGICAL PHYSICS (^)  |
| PSYC 1010             | INTRODUCTION TO PSYCHOLOGY I (**)   |
| PSYC 1020             | INTRODUCTION TO PSYCHOLOGY II (^)   |
| PSYC 2024             | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^)                                 |
| PSYC 3520             | CHILD PSYCHOLOGY (^)  |
| PSYC 4020             | LEARNING (^)  |
| PSYC 4024             | LABORATORY IN PSYCHOLOGY: LEARNING (^)  |
| PSYC 4234             | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)                         |
| PSYC 4440             | ABNORMAL PSYCHOLOGY (^)   |
| PSYC 4460             | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)                                 |
| PSYC 4470             | MENTAL HEALTH AND AGING (^)   |
| PSYC 4990             | SENIOR THESIS (^)   |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Neuroscience Minor

### Neuroscience Minor Requirements

A minor in Neuroscience requires 15 credit hours. Students are able to complete the minor with combination of online and in-person coursework. All coursework will need to be completed with a grade of C- or better. No coursework in the minor will be allowed to double-count with a major or minor in Psychology or Biology.

Students are required to complete NEUR 1520 and NEUR 1540, plus 9 credit hours in selected 4000-level Neuroscience electives.

| Code   | Title                            | Credits  |
|--|----------------------------------|----------|
| <b>Required courses</b>                          |                                  | <b>6</b> |
| NEUR 1520  | INTRODUCTION TO NEUROSCIENCE I   |          |
| NEUR 1540  | INTRODUCTION TO NEUROSCIENCE II  |          |
| <b>Select 9 credit hours from the following:</b> |                                  | <b>9</b> |
| NEUR 4000  | SYSTEMS NEUROSCIENCE             |          |
| NEUR 4160  | NEUROPHARMACOLOGY                |          |
| NEUR 4290  | NEUROETHOLOGY                    |          |
| NEUR 4330  | SOCIAL NEUROSCIENCE              |          |
| NEUR 4340  | ADVANCED BEHAVIORAL NEUROSCIENCE |          |

|           |   |
|-----------|---|
| NEUR 4480 | NEUROIMMUNOLOGY                                       |
| NEUR 4640 | NEURAL MECHANISMS OF SUBSTANCE USE DISORDERS          |
| NEUR 4840 | GLIA IN HEALTH AND DISEASE                            |
| NEUR 4850 | NEUROBIOLOGY OF LEARNING AND MEMORY                   |
| NEUR 4870 | MOLECULAR AND CELLULAR NEUROBIOLOGY                   |
| NEUR 4890 | GENES, BRAIN, AND BEHAVIOR                            |
| NEUR 4910 | SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 1              |
| NEUR 4920 | SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 2              |
| NEUR 4930 | SPECIAL TOPICS IN NEUROSCIENCE - NEURO ELECTIVE BLOCK |
| NEUR 4960 | EXPERIENTIAL STUDY IN NEUROSCIENCE                    |

## Pharmaceutical Sciences

The UNO Bachelor of Science degree with a major in Pharmaceutical Sciences is a partnership between faculty in the Chemistry department (CHEM) within the College of Arts and Sciences at the University of Nebraska at Omaha (UNO), and the College of Pharmacy (CoP) within the University of Nebraska Medical Center (UNMC). It is intended to provide a comprehensive undergraduate education for students interested in Doctor of Pharmacy or Pharmaceutical Sciences graduate programs, or entry-level careers requiring a Bachelor of Science degree, such as sales representatives or pharmaceutical research technicians. Graduates of the program will have the sort of skills today's workforce demands, including communication, computer competencies, and teamwork skills, and will receive targeted skills in a professional field that is changing as healthcare practices and drug delivery development evolves.

Future researchers in drug development and future pharmacists will benefit from a pharmacy education that begins at the undergraduate level. Students will receive an education that propels them into programs and entry-level positions, ready to engage with other healthcare providers in the complexities of delivering patient-centered healthcare or ready to collaborate as a medical scientist in a team-oriented work environment. The partnership between UNO and UNMC will provide students with opportunities to interact with a broader base of academic and clinical faculty and staff than is typical for undergraduate students. Undergraduates in the program will engage with Chemistry or College of Pharmacy faculty to complete programmatic research requirements.

Graduates of the pharmaceutical sciences major will also have the prerequisites for entrance into UNMC's College of Pharmacy's PharmD program.

## Other Information

Students working toward a degree in pharmaceutical sciences must earn a grade of "C" or better in all courses used to fulfill the major and cognate requirements. A GPA of 2.0 or higher in major and cognate courses is required to graduate with a B.S. in pharmaceutical sciences.

High school students who have successfully completed advanced high school chemistry courses (AP and/or IB) and are considering a modified course of study should consult with their advisor.

### IMPORTANT OVERLAPPING RESTRICTIONS

Pharmaceutical Sciences majors:

- may not add a Chemistry minor

- may add a Chemistry major or dual degree (BA Chemistry; BS Pharmaceutical Sciences) without overlapping restrictions.

## Contact Information

Department of Chemistry  
DSC 337  
402.554.2651

**Website (<https://www.unomaha.edu/college-of-arts-and-sciences/chemistry/academics/pharmaceutical-sciences.php>)**

## Degrees Offered

- Pharmaceutical Sciences Bachelor of Science (p. 264)

The B.S. degree in pharmaceutical sciences prepares graduates for a variety of entry-level positions in the pharmaceutical and medical industry related to drug therapy, medicine production and drug delivery. These are often high wage, high demand, and high skills jobs (H3) and include some of the following:

- Sales and marketing
- Drug research and development
- Clinical research
- Quality assurance
- Pharmaceutical manufacturing
- Chemical manufacturing
- Food and beverage manufacturing
- Testing laboratories for biomedical and bioscience.

The B.S. in pharmaceutical sciences also prepares graduates interested in pursuing further professional education with the goal of providing patient care as a pharmacist (through completion of a PharmD degree), and to graduates interested in pursuing advanced education and training to become a medical research scientist through a Master of Science (M.S.) or Doctor of Philosophy (Ph.D.) degree. The program also provides students who plan to enter health professional schools another option of a major in addition to the commonly selected majors, such as biology, chemistry, molecular and biomedical biology, and neuroscience.

## Pharmaceutical Sciences Bachelor of Science

## Pharmaceutical Science, Bachelor of Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required for University Gen Eds.          |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                             |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY         |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE |           |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - Minimum grades of "C" required in each major and cognate course.**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Pharmaceutical Sciences - 75 Hours Required****Required Chemistry Coursework 28**

|                          |  |
|--------------------------|--|
| CHEM 1180<br>& CHEM 1184 | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY (**^) |
| CHEM 1190<br>& CHEM 1194 | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY     |
| CHEM 2250                | ORGANIC CHEMISTRY I  |
| CHEM 2260<br>& CHEM 2274 | ORGANIC CHEMISTRY II<br>and ORGANIC CHEMISTRY<br>LABORATORY        |
| CHEM 2400<br>& CHEM 2404 | QUANTITATIVE ANALYSIS<br>and QUANTITATIVE ANALYSIS LAB             |
| CHEM 4650<br>& CHEM 4654 | BIOCHEMISTRY I<br>and BIOCHEMISTRY I LABORATORY                    |
| CHEM 4660<br>& CHEM 4664 | BIOCHEMISTRY II<br>and BIOCHEMISTRY II LABORATORY                  |

**Required Pharmaceutical Coursework 15**

|           |   |
|-----------|---|
| PHSI 1010 | INTRODUCTION TO FOUNDATIONS AND CAREER PATHS IN PHARMACEUTICAL SCIENCES |
| PHSI 3110 | CURRENT RESEARCH TOPICS IN PHARMACEUTICAL SCIENCES                      |
| PHSI 3210 | FOUNDATIONS OF MOLECULES TO MEDICINE                                    |
| PHSI 3310 | APPLICATIONS OF MOLECULES TO MEDICINE                                   |
| PHSI 4010 | INTRODUCTION TO PHARMACEUTICAL SCIENCE                                  |
| PHSI 4210 | CONTEMPORARY USE OF MEDICINES   |
| PHSI 4410 | PHARMACEUTICAL SCIENCES RESEARCH EXPERIENCE                             |

|           |   |
|-----------|---|
| PHSI 4510 | ADVANCED RESEARCH EXPERIENCE IN PHARMACEUTICAL SCIENCES |
|-----------|---|

**Select 6 hours of additional Pharmaceutical Science courses in consultation with advisor 6**

**Other Required Coursework (Required Cognate) 26**

|                           |  |
|---------------------------|--|
| BIOL 1450                 | BIOLOGY I (**)   |
| BIOL 2740                 | HUMAN ANATOMY AND PHYSIOLOGY I   |
| BIOL 2840                 | HUMAN ANATOMY AND PHYSIOLOGY II  |
| MATH 1940<br>or MATH 1950 | CALCULUS FOR BIOMEDICINE<br>CALCULUS I                                 |
| PHYS 1110<br>& PHYS 1154  | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I<br>(**) |

An Approved Statistics Course (PSYC 3130, SOC 2130, STAT 3000, or BIOL 4110)

**College Requirements 15-30+**

Bachelor Science Cognate Requirement: See major requirements

**College Breadth (choose one option)**

Option 1: Complete any UNO minor or undergraduate certificate\* - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional Quantitative Literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Natural Science with or without Lab - 3-4 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

\*With the exception of the Chemistry minor

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Pharmaceutical Science, Bachelor of Science Four Year Plan

**Freshman**

|                           |   | Credits |
|---------------------------|---|---------|
| <b>Fall</b>               |   |         |
| ENGL 1150                 | ENGLISH COMPOSITION I   | 3       |
| CHEM 1180<br>& CHEM 1184  | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY            | 4       |
| MATH 1940<br>or MATH 1950 | CALCULUS FOR BIOMEDICINE<br>or CALCULUS I                               | 5       |
| PHSI 1010                 | INTRODUCTION TO FOUNDATIONS AND CAREER PATHS IN PHARMACEUTICAL SCIENCES | 1       |

General Education Course or Elective 3

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits****16**

**Spring**

|  |  |           |
|--|--|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY                | 3         |
| CHEM 1190 & CHEM 1194  | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY | 4         |
| BIOL 1450  | BIOLOGY I  | 5         |
| Approved Statistics Course: STAT 3000, PSYC 3130, SOC 2130, BIOL 4110  |  | 3         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |  |           |
| <b>Credits</b>   |  | <b>15</b> |

**Sophomore****Fall**

|  |   |   |
|--|---|---|
| CMST 1110 or CMST 2120   | PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE | 3 |
| BIOL 1160  | TERMINOLOGY OF HUMAN HEALTH & DISEASE             | 2 |
| BIOL 2740  | HUMAN ANATOMY AND PHYSIOLOGY I                    | 4 |
| CHEM 2250  | ORGANIC CHEMISTRY I                               | 3 |
| General Education Course or Elective (PHIL 2030 Intro to Ethics if pre-pharmacy)   |   | 3 |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |   |   |

**Credits** **15**

**Spring**

|  |   |   |
|--|---|---|
| BIOL 2840  | HUMAN ANATOMY AND PHYSIOLOGY II                       | 4 |
| CHEM 2260 & CHEM 2274  | ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY | 5 |
| PHSI 3310  | APPLICATIONS OF MOLECULES TO MEDICINE                 | 3 |
| Elective   |   | 3 |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |   |   |

**Credits** **15**

**Junior****Fall**

|   |  |   |
|---|--|---|
| CHEM 4650 & CHEM 4654                   | BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY       | 4 |
| PHSI 3110                               | CURRENT RESEARCH TOPICS IN PHARMACEUTICAL SCIENCES | 1 |
| PHSI 3210                               | FOUNDATIONS OF MOLECULES TO MEDICINE               | 3 |
| Pharmaceutical Sciences Elective Course |  | 1 |
| General Education Course or Elective    |  | 3 |
| Elective                                |  | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

|  |   |           |
|--|---|-----------|
| <b>Credits</b>   |   | <b>15</b> |
| <b>Spring</b>  |   |           |
| CHEM 2400 & CHEM 2404  | QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB | 4         |
| CHEM 4660 & CHEM 4664  | BIOCHEMISTRY II and BIOCHEMISTRY II LABORATORY      | 4         |
| PHSI 4410  | PHARMACEUTICAL SCIENCES RESEARCH EXPERIENCE         | 1         |
| Pharmaceutical Sciences Elective Course  |   | 3         |
| Elective   |   | 3         |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |   |           |

**Credits** **15**

**Senior****Fall**

|  |   |     |
|--|---|-----|
| PHYS 1110 & PHYS 1154  | PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I | 5   |
| PHSI 4010  | INTRODUCTION TO PHARMACEUTICAL SCIENCE                      | 3   |
| PHSI 4510  | ADVANCED RESEARCH EXPERIENCE IN PHARMACEUTICAL SCIENCES     | 1   |
| General Education Course or Elective   |   | 3   |
| Pharmaceutical Science Elective Course   |   | 1-2 |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |   |     |

**Credits** **13-14**

**Spring**

|  |                               |   |
|--|-------------------------------|---|
| PHSI 4210  | CONTEMPORARY USE OF MEDICINES | 2 |
| Pharmaceutical Sciences Elective Course  |                               | 1 |
| General Education Course or Elective   |                               | 3 |
| General Education Course or Elective   |                               | 3 |
| Elective   |                               | 3 |
| Elective   |                               | 3 |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |                               |   |

**Credits** **15**

**Total Credits** **119-120**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**



**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Philosophy

The study of philosophy is an attempt to understand the world in as unified and general a way as possible. Philosophers want to know what there is, how it works, how we know, how we should live, what is good, what is immoral, whether or not there is a God, and many other things—and, especially, how all these things fit together. One reason the study of philosophy is useful is that the methodology of philosophy—careful reasoning, precise application of logic, and thorough analysis of concepts—is applicable to any subject matter whatsoever.

The philosophy major may be earned in one of three ways: (1) the traditional major surveys core areas of critical reasoning and logic, ethics and value theory, metaphysics and epistemology, (2) the major with a concentration in the philosophy of brains, minds, and machines focuses on questions at the intersection of philosophy, psychology, neuroscience, computer science and artificial intelligence, and (3) the major with a concentration in ethics, law, and social/political philosophy centers on questions regarding the basis and nature of morality, the foundations of the law and the goals of criminal justice, our obligations with respect to the environment, and the like. The philosophy minor offers options for electives suited to nearly any companion major. The interdisciplinary ethics minor enhances and complements most other degrees.

## Other Information

All coursework taken for the philosophy major or minor must be completed with a grade of "C-" or better.

No more than 6 hours counted as credit toward a major or another minor may be counted as credit toward the **ethics** minor.

## Residency Requirement

A maximum of three credit hours can be transferred from another university to count towards the philosophy major, unless the chair agrees to additional credit transfer.

## Student Groups

Philosophy Club (<https://www.unomaha.edu/college-of-arts-and-sciences/philosophy/student-opportunities/student-organizations.php>)

## Contact

205 Arts and Sciences Hall  
402.554.2628

**Website** (<http://www.unomaha.edu/college-of-arts-and-sciences/philosophy/>)

## Degrees Offered

- Philosophy, Bachelor of Arts (p. 267)
- Philosophy, Bachelor of Arts Concentration in the Philosophy of Brains, Minds, and Machines (p. 270)
- Philosophy, Bachelor of Arts Concentration in Ethics, Law, and Social-Political Philosophy (p. 272)

## Minors Offered

- Philosophy Minor (p. 275)
- Ethics Minor (p. 275)

Philosophy builds the core skills that employers most value: critical thinking, creative thinking, and analytic writing. This means that study in Philosophy provides a solid foundation for a career in almost anything that you can imagine.

Just a few examples...

- Law: Philosophy majors have among the highest average scores on the Law School Admission Exam (LSAT) and have among the highest acceptance rates to law school.
- Medicine: Philosophy and other humanities majors have among the highest average scores on the Medical College Admission Test (MCAT) and among the highest acceptance rates to medical school.
- Business: Philosophy majors have among the highest average scores on the Graduate Management Admission Test (GMAT).
- Graduate School: Philosophy majors have among the highest average scores on the Graduate Record Examination (GRE) and have the highest average scores on the both the verbal section and the analytic writing section.
- Technology: Philosophy majors often go to work in technology related fields such as computer programming and artificial intelligence (AI) where their background in logic and language, as well as ethics, is highly prized. In particular, philosophy courses are a central part of prestigious programs in Artificial Intelligence.
- Public administration and social services
- Criminal Justice
- Education

When the study of Philosophy is paired with other areas of study, the foundation for success is even greater. In short, double-majoring in Philosophy multiplies the skills and knowledge provided by both majors. This is an especially attractive option since a double-major in Philosophy only requires 30 credit hours.

## Philosophy, Bachelor of Arts

To obtain a B.A. with a major in Philosophy, a student must fulfill university, college, and departmental requirements.



## Philosophy, Bachelor of Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Philosophy Major - 30 Hours Required</b>   |   |           |
| <b>Required Coursework</b>  |   | <b>9</b>  |
| PHIL 1210   | CRITICAL REASONING                                      |           |
| or PHIL 2010  | SYMBOLIC LOGIC  |           |
| PHIL 2030   | INTRODUCTION TO ETHICS (**)                             |           |
| PHIL 3000   | PHILOSOPHY WRITING SEMINAR                              |           |
| or PHIL 4000  | ADVANCED PHILOSOPHY WRITING SEMINAR                     |           |
| <b>Select at least one 3-credit (PHIL) Philosophy course from the following (Metaphysics and Epistemology)</b>  |   | <b>3</b>  |
| PHIL 3130   | HISTORY OF MODERN PHILOSOPHY                            |           |
| PHIL 3400   | PHILOSOPHY OF NATURAL SCIENCE                           |           |
| PHIL 3600   | EPISTEMOLOGY  |           |
| PHIL 3700   | SPACE, TIME, AND REALITY                                |           |
| PHIL 4240   | PHILOSOPHY OF EMOTION                                   |           |
| PHIL 4610   | PHILOSOPHY OF LANGUAGE                                  |           |
| <b>Select at least one 3-credit (PHIL) Philosophy course from the following (Value Theory)</b>  |   | <b>3</b>  |
| PHIL 3050   | ETHICAL THEORY  |           |

|   |                        |               |
|---|------------------------|---------------|
| PHIL 3220   | PHILOSOPHY OF ART      |               |
| PHIL/MEDH 3450  | PHILOSOPHY OF MEDICINE |               |
| PHIL 3480   | PHILOSOPHY OF RACE     |               |
| PHIL 3490   | GENDER AND PHILOSOPHY  |               |
| <b>Select five 3-credit (PHIL) Philosophy courses. At least twelve (12) hours must be upper-level Philosophy (i.e., 3000/4000 level). 15 Hours Required</b> |                        | <b>15</b>     |
| <b>At least twenty-one (21) of the total hours in the major must be upper-level Philosophy (i.e., 3000/4000 PHIL).</b>                                      |                        |               |
| <b>College Breadth (choose one option)</b>  |                        | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours   |                        |               |
| Option 2: Additional General Education Requirements - 18+ hours   |                        |               |
| Additional quantitative literacy - 3 hours  |                        |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours  |                        |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |                        |               |
| HIST 1000 and HIST 1010 - 6 hours   |                        |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours  |                        |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)   |                        |               |
| <b>Bachelor of Arts Language Requirement</b>  |                        | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120   |                        |               |
| <b>ELECTIVES</b>  |                        |               |
| Elective hours as required to reach a total of 120 hours  |                        |               |

## Philosophy, Bachelor of Arts Four Year Plan

|   |  |                |
|---|--|----------------|
| <b>Freshman</b>   |  |                |
| <b>Fall</b>   |  | <b>Credits</b> |
| ENGL 1150   | ENGLISH COMPOSITION I  | 3              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                    | 3-4            |
| or MATH 1130  | or QUANTITATIVE LITERACY   |                |
| or MATH 1140  | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                     |                |
| or MATH 1300  | or COLLEGE ALGEBRA WITH SUPPORT  |                |
| PHIL 1010   | INTRODUCTION TO PHILOSOPHY: MEANING OF LIFE                                | 3              |
| or PHIL 1030  | or INTRODUCTION TO PHILOSOPHY: BRAINS, MINDS, AND MACHINES                 |                |
| or PHIL 1040  | or INTRODUCTION TO PHILOSOPHY: LAW, POLITICS, AND SOCIETY                  |                |
| or PHIL 1050  | or INTRODUCTION TO PHILOSOPHY: PHILOSOPHY, TECHNOLOGY, AND SCIENCE FICTION |                |
| World Language Course 1110  |  | 5              |
| Elective  |  | 1              |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |                |
| <b>Credits</b>  |  | <b>15-16</b>   |

**Spring**

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| PHIL 2030                            | INTRODUCTION TO ETHICS                    | 3 |
| World Language Course 1120           |   | 5 |
| General Education Course or Elective |   | 3 |
| Elective                             |   | 1 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Sophomore****Fall**

|   |   |   |
|---|---|---|
| PHIL 1210<br>or PHIL 2010   | CRITICAL REASONING<br>or SYMBOLIC LOGIC | 3 |
| PHIL Upper Division Elective, for example PHIL 3110 HISTORY OF ANCIENT PHILOSOPHY |   | 3 |
| Elective  |   | 3 |
| World Language Course 2110  |   | 3 |
| General Education Course or Elective  |   | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|  |                            |   |
|--|----------------------------|---|
| CMST 1110  | PUBLIC SPEAKING FUNDS      | 3 |
| PHIL 3000  | PHILOSOPHY WRITING SEMINAR | 3 |
| PHIL Upper Division Elective, for example PHIL 3130 HISTORY OF MODERN PHILOSOPHY |                            | 3 |
| Elective   |                            | 1 |
| World Language Course 2120   |                            | 3 |
| General Education Course or Elective   |                            | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 16**

**Junior****Fall**

|  |  |   |
|--|--|---|
| General Education Course or Elective   |  | 3 |
| PHIL Advanced Course in Metaphysics and Epistemology, for example PHIL 3700 SPACE, TIME, AND REALITY |  | 3 |
| General Education Course or Elective   |  | 3 |
| General Education Course or Elective   |  | 4 |
| Elective   |  | 1 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 14**

**Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|  |   |
|--|---|
| PHIL Advanced Course in Value Theory, for example PHIL 3050 ETHICAL THEORY | 3 |
|--|---|

|   |   |
|---|---|
| PHIL Upper Division Elective, for example PHIL 3220 PHILOSOPHY OF ART | 3 |
|---|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Senior****Fall**

|  |   |
|--|---|
| PHIL Upper Division Elective, for example PHIL 3510 Phenomenology and Existentialism or PHIL 3600 EPISTEMOLOGY | 3 |
| Additional Social Science for A&S or Minor/2nd Major course  | 3 |
| General Education Course or Elective   | 3 |
| General Education Course or Elective   | 3 |
| General Education Course or Elective   | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|                                      |     |
|--------------------------------------|-----|
| General Education Course or Elective | 3-4 |
| General Education Course or Elective | 3   |
| Elective                             | 3   |
| Elective                             | 3   |
| Elective                             | 3   |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 15-16**

**Total Credits 120-122**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

# Philosophy, Bachelor of Arts Concentration in Philosophy of Brains, Minds and Machines

## Philosophy, Bachelor of Arts Requirements with a Concentration in Brains, Minds, and Machines Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |

^Course requires pre-requisite(s)

|  |  |
|--|--|
| <b>Philosophy Major with a Concentration in Brains, Minds, and Machines - 30 Hours Required</b>  |  |
| <b>Required Coursework</b>   | <b>15</b>  |
| PHIL 1210<br>or PHIL 2010  | CRITICAL REASONING<br>SYMBOLIC LOGIC   |
| PHIL 2020<br><br>or PHIL 3650  | INTRODUCTION TO PHILOSOPHY OF MIND<br>PHILOSOPHY OF MIND   |
| PHIL 2030  | INTRODUCTION TO ETHICS (**)  |
| PHIL/PSYC 4250   | LIMITS OF CONSCIOUSNESS  |
| PHIL 3000<br>or PHIL 4000  | PHILOSOPHY WRITING SEMINAR<br>ADVANCED PHILOSOPHY WRITING SEMINAR  |
| <b>Select at least three 3-credit upper-level Philosophy (i.e., 3000/4000 PHIL) courses from the following list – 9 Hours Required</b> |  |
| PHIL 3130  | HISTORY OF MODERN PHILOSOPHY   |
| PHIL 3300  | EARLY ANALYTIC PHILOSOPHY  |
| PHIL 3400  | PHILOSOPHY OF NATURAL SCIENCE  |
| PHIL 3410  | PHILOSOPHY OF SOCIAL SCIENCE   |
| PHIL 3500  | PROBLEMS IN PHILOSOPHY (Special Topic: Rationality, Judgement, and Decision Making)  |
| PHIL 3500  | PROBLEMS IN PHILOSOPHY (Special Topic: Special Topics in Philosophy related to Brains, Minds, and Machines - approved topics only) |
| PHIL 3600  | EPISTEMOLOGY   |
| PHIL 3650  | PHILOSOPHY OF MIND   |
| PHIL 3700  | SPACE, TIME, AND REALITY   |
| PHIL 3960  | READINGS IN PHILOSOPHY (approved topics only)  |
| PHIL 4220  | NEUROETHICS  |
| PHIL 4240  | PHILOSOPHY OF EMOTION  |
| PHIL 4260  | MORAL PSYCHOLOGY   |
| PHIL 4610  | PHILOSOPHY OF LANGUAGE   |
| <b>Select one 3-credit course from the following extended list. – 3 Hours Required</b>   |  |
| PHIL 1030  | INTRODUCTION TO PHILOSOPHY: BRAINS, MINDS, AND MACHINES (**)   |
| PHIL 1050  | INTRODUCTION TO PHILOSOPHY: PHILOSOPHY, TECHNOLOGY, AND SCIENCE FICTION (**)   |
| PHIL 1210  | CRITICAL REASONING (**)  |
| PHIL 2010  | SYMBOLIC LOGIC   |
| PHIL 2020  | INTRODUCTION TO PHILOSOPHY OF MIND   |
| PHIL 3130  | HISTORY OF MODERN PHILOSOPHY   |
| PHIL 3300  | EARLY ANALYTIC PHILOSOPHY  |
| PHIL 3400  | PHILOSOPHY OF NATURAL SCIENCE  |
| PHIL 3410  | PHILOSOPHY OF SOCIAL SCIENCE   |
| PHIL 3500  | PROBLEMS IN PHILOSOPHY (Special Topic: Rationality, Judgement, and Decision Making)  |
| PHIL 3500  | PROBLEMS IN PHILOSOPHY (Special Topic: Special Topics in Philosophy related to Brains, Minds, and Machines - approved topics only) |
| PHIL 3600  | EPISTEMOLOGY   |
| PHIL 3650  | PHILOSOPHY OF MIND   |

|           |   |
|-----------|---|
| PHIL 3700 | SPACE, TIME, AND REALITY                      |
| PHIL 3960 | READINGS IN PHILOSOPHY (approved topics only) |
| PHIL 4220 | NEUROETHICS                                   |
| PHIL 4240 | PHILOSOPHY OF EMOTION                         |
| PHIL 4260 | MORAL PSYCHOLOGY                              |
| PHIL 4610 | PHILOSOPHY OF LANGUAGE                        |
| PSYC 4070 | COGNITIVE PSYCHOLOGY (^)                      |
| PSYC 4090 | COGNITIVE NEUROSCIENCE (^)                    |
| PSYC 4210 | SENSATION AND PERCEPTION (^)                  |
| PSYC 4230 | BEHAVIORAL NEUROSCIENCE (^)                   |
| PSYC 4520 | PSYCHOLOGY OF LANGUAGE                        |
| NEUR 1520 | INTRODUCTION TO NEUROSCIENCE I (^)            |
| NEUR 1540 | INTRODUCTION TO NEUROSCIENCE II (^)           |
| NEUR 4330 | SOCIAL NEUROSCIENCE (^)                       |
| NEUR 4890 | GENES, BRAIN, AND BEHAVIOR                    |

Additional PSYC, NEUR, and CSCI courses upon approval of the Chair of the Department of Philosophy.

**Select one 3-credit course from 3000/4000 (PHIL) Philosophy 3**

**At least twenty-one (21) of the total hours in the major must be upper-level Philosophy (i.e., 3000/4000 PHIL)**

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Philosophy, Bachelor of Arts Requirements with a Concentration in Brains, Minds, and Machines Four Year Plan

### Freshman

| Fall         |   | Credits |
|--------------|---|---------|
| ENGL 1150    | ENGLISH COMPOSITION I                                   | 3       |
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING | 3-4     |
| or MATH 1130 | or QUANTITATIVE LITERACY                                |         |
| or MATH 1140 | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS  |         |
| or MATH 1300 | or COLLEGE ALGEBRA WITH SUPPORT                         |         |

|           |   |   |
|-----------|---|---|
| PHIL 1030 | INTRODUCTION TO PHILOSOPHY: BRAINS, MINDS, AND MACHINES | 3 |
|-----------|---|---|

|          |  |   |
|----------|--|---|
| Elective |  | 1 |
|----------|--|---|

|                            |  |   |
|----------------------------|--|---|
| World Language Course 1110 |  | 5 |
|----------------------------|--|---|

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 15-16**

### Spring

|           |   |   |
|-----------|---|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
|-----------|---|---|

|           |                        |   |
|-----------|------------------------|---|
| PHIL 2030 | INTRODUCTION TO ETHICS | 3 |
|-----------|------------------------|---|

|                            |  |   |
|----------------------------|--|---|
| World Language Course 1120 |  | 5 |
|----------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 4 |
|--------------------------------------|--|---|

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 15**

### Sophomore

#### Fall

|              |                             |   |
|--------------|-----------------------------|---|
| CMST 1110    | PUBLIC SPEAKING FUNDS       | 3 |
| or CMST 2120 | or ARGUMENTATION AND DEBATE |   |

|           |                |   |
|-----------|----------------|---|
| PHIL 2010 | SYMBOLIC LOGIC | 3 |
|-----------|----------------|---|

|                |                         |   |
|----------------|-------------------------|---|
| PHIL/PSYC 4250 | LIMITS OF CONSCIOUSNESS | 3 |
|----------------|-------------------------|---|

|                            |  |   |
|----------------------------|--|---|
| World Language Course 2110 |  | 3 |
|----------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

### Spring

|           |                            |   |
|-----------|----------------------------|---|
| PHIL 3000 | PHILOSOPHY WRITING SEMINAR | 3 |
|-----------|----------------------------|---|

|           |                    |   |
|-----------|--------------------|---|
| PHIL 3650 | PHILOSOPHY OF MIND | 3 |
|-----------|--------------------|---|

|                            |  |   |
|----------------------------|--|---|
| World Language Course 2120 |  | 3 |
|----------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

### Junior

#### Fall

|   |  |   |
|---|--|---|
| Upper-level Philosophy course (i.e., PHIL 3000/4000) from Brains, Minds, and Machines approved list, such as PHIL 3600 Epistemology |  | 3 |
|---|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|          |  |   |
|----------|--|---|
| Elective |  | 3 |
|----------|--|---|

|  |                |
|--|----------------|
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |                |
| <b>Credits</b>   | <b>15</b>      |
| <b>Spring</b>  |                |
| Upper-level Philosophy course (i.e., PHIL 3000/4000) from Brains, Minds, and Machines approved list such as PHIL 4240 Philosophy of Emotion  | 3              |
| Upper-level Philosophy course (i.e., PHIL 3000/4000) from Brains, Minds, and Machines approved list such as PHIL 3410 Philosophy of Social Science   | 3              |
| General Education Course or Elective   | 3              |
| General Education Course or Elective   | 3-4            |
| General Education Course or Elective   | 3              |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.               |                |
| <b>Credits</b>   | <b>15-16</b>   |
| <b>Senior</b>  |                |
| <b>Fall</b>  |                |
| Approved course from Brains, Minds, and Machines Extended List   | 3              |
| General Education Course or Elective   | 3              |
| General Education Course or Elective   | 3              |
| General Education Course or Elective   | 3              |
| Elective   | 3              |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.                   |                |
| <b>Credits</b>   | <b>15</b>      |
| <b>Spring</b>  |                |
| Upper-Level Philosophy (i.e., 3000/4000) Course of Choice. such as PHIL 3220 Philosophy of Art   | 3              |
| General Education Course or Elective   | 3              |
| General Education Course or Elective   | 3              |
| General Education Course or Elective   | 3              |
| Elective   | 3              |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.   |                |
| <b>Credits</b>   | <b>15</b>      |
| <b>Total Credits</b>   | <b>120-122</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Philosophy, Bachelor of Arts Concentration in Ethics, Law and Social-Political Philosophy

### Philosophy, Bachelor of Arts with a Concentration in Ethics, Law, and Social-Political Philosophy Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |



|  |           |
|--|-----------|
| Social Science – 3 hrs.  |           |
| Humanities – 3 hrs.  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |           |
| Arts – 3 hrs.  |           |
| <b>Individual and Social Responsibility</b>  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |           |
| Civic Knowledge and Engagement – 3 hrs.  |           |
| <b>MAJOR REQUIREMENTS</b>  |           |
| ^Course requires pre-requisite(s)  |           |
| **Course will satisfy UNO's General Education requirement  |           |
| <b>Philosophy Major - 30 Hours Required</b>  |           |
| <b>Required Coursework</b>   | <b>18</b> |
| PHIL 1210 CRITICAL REASONING (**)  |           |
| or PHIL 2010 SYMBOLIC LOGIC  |           |
| PHIL 2030 INTRODUCTION TO ETHICS (**)  |           |
| PHIL 3040 PHILOSOPHY OF LAW  |           |
| PHIL 3050 ETHICAL THEORY   |           |
| PHIL 3210 SOCIAL PHILOSOPHY  |           |
| PHIL 3000 PHILOSOPHY WRITING SEMINAR   |           |
| or PHIL 4000 ADVANCED PHILOSOPHY WRITING SEMINAR   |           |
| <b>Select three 3-credit courses from the following list. At least six (6) hours must be upper-level Philosophy (i.e., 3000/4000 PHIL). – 9 Hours Required</b> | <b>9</b>  |
| <b>Ethics</b>  |           |
| PHIL 1020 CONTEMPORARY MORAL PROBLEMS (**)   |           |
| PHIL 2040 INTRODUCTION TO EAST ASIAN PHILOSOPHY (**)   |           |
| PHIL 2300 BIOMEDICAL ETHICS  |           |
| PHIL 3060 VALUES AND VIRTUES   |           |
| PHIL 3110 HISTORY OF ANCIENT PHILOSOPHY  |           |
| PHIL 3170 ETHICS IN BUSINESS (**)  |           |
| PHIL 3180 ENVIRONMENTAL ETHICS   |           |
| PHIL 3500 PROBLEMS IN PHILOSOPHY (Ethics)  |           |
| PHIL 3960 READINGS IN PHILOSOPHY (Ethics)  |           |
| <b>Law</b>   |           |
| PSCI 3240 THE POLITICS AND PRACTICE OF HUMAN RIGHTS (^)  |           |
| PSCI 4170 CONSTITUTIONAL LAW: FOUNDATIONS (^)  |           |
| PSCI 4180 CONSTITUTIONAL LAW: THE FEDERAL SYSTEM (^)   |           |
| PSCI 4190 CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)  |           |
| PSCI 4260 INTERNATIONAL LAW (^)  |           |
| PSCI/NAMS 4440 FEDERAL INDIAN LAW (^)  |           |
| <b>Social/Political</b>  |           |
| PHIL 1040 INTRODUCTION TO PHILOSOPHY: LAW, POLITICS, AND SOCIETY (**)  |           |
| PHIL 3150 PHILOSOPHY OF HISTORY  |           |
| PHIL 3220 PHILOSOPHY OF ART  |           |
| PHIL 3450 PHILOSOPHY OF MEDICINE   |           |
| PHIL 3480 PHILOSOPHY OF RACE   |           |
| PHIL 3490 GENDER AND PHILOSOPHY  |           |
| PHIL 3500 PROBLEMS IN PHILOSOPHY   |           |
| PHIL 3510 PHENOMENOLOGY AND EXISTENTIALISM   |           |

|  |  |               |
|--|--|---------------|
| PHIL 3960  | READINGS IN PHILOSOPHY (Social/Political Philosophy) |               |
| PSCI 3340  | AMERICAN POLITICAL THOUGHT                           |               |
| PSCI 4310  | CLASSICAL POLITICAL THOUGHT (^)                      |               |
| PSCI 4320  | EARLY MODERN POLITICAL THOUGHT                       |               |
| PSCI 4330  | LATE MODERN POLITICAL THOUGHT (^)                    |               |
| PSCI 4340  | CONTEMPORARY POLITICAL THOUGHT (^)                   |               |
| <b>Select one 3-credit (PHIL) Philosophy course</b>  |  | <b>3</b>      |
| <b>At least twenty-one (21) of the total hours in the major must be upper-level Philosophy (i.e., 3000/4000 PHIL).</b> |  |               |
| <b>College Breadth (choose one option)</b>   |  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |  |               |
| Option 2: Additional General Education Requirements - 18+ hours  |  |               |
| Additional quantitative literacy - 3 hours   |  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |  |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |  |               |
| HIST 1000 and HIST 1010 - 6 hours  |  |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |  |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)                                      |  |               |
| <b>Bachelor of Arts Language Requirement</b>   |  | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120  |  |               |
| <b>ELECTIVES</b>   |  |               |
| Elective hours as required to reach a total of 120 hours   |  |               |

## Philosophy, Bachelor of Arts with a Concentration in Ethics, Law, and Social-Political Philosophy Four Year Plan

| Freshman  |   |         |
|---|---|---------|
| Fall  |   | Credits |
| ENGL 1150   | ENGLISH COMPOSITION I                                   | 3       |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING | 3-4     |
| or MATH 1130  | or QUANTITATIVE LITERACY                                |         |
| or MATH 1140  | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS  |         |
| or MATH 1300  | or COLLEGE ALGEBRA WITH SUPPORT                         |         |
| PHIL 1040   | INTRODUCTION TO PHILOSOPHY: LAW, POLITICS, AND SOCIETY  | 3       |
| World Language Course 1110  |   | 5       |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |         |
|   |   | Credits |
| Spring  |   | 14-15   |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               | 3       |
| PHIL 2030   | INTRODUCTION TO ETHICS                                  | 3       |



|                                      |   |
|--------------------------------------|---|
| World Language Course 1120           | 5 |
| General Education Course or Elective | 4 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

**Sophomore****Fall**

|                           |  |   |
|---------------------------|--|---|
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3 |
|---------------------------|--|---|

|                           |   |   |
|---------------------------|---|---|
| PHIL 1210<br>or PHIL 2010 | CRITICAL REASONING (*)<br>or SYMBOLIC LOGIC | 3 |
|---------------------------|---|---|

|                            |   |
|----------------------------|---|
| World Language Course 2110 | 3 |
|----------------------------|---|

|                            |   |
|----------------------------|---|
| Natural/Physical Science** | 3 |
|----------------------------|---|

|  |   |
|--|---|
| Approved PHIL 3000/4000 Level Ethics, Law, and Social Political Course, such as PHIL 3110 Ancient Philosophy | 3 |
|--|---|

\*PHIL 1210 also counts as a Humanities/Fine Arts gen. ed. PHIL 2010 also counts as a A&S Required Add'l Gen Ed QL course if selecting that option. Students only need either PHIL 1210 or PHIL 2010.

\*\*NPS must come from 2nd discipline.

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

**Spring**

|                                      |  |
|--------------------------------------|--|
| General Education Course or Elective |  |
|--------------------------------------|--|

|           |  |   |
|-----------|--|---|
| PHIL 3000 | PHILOSOPHY WRITING SEMINAR<br>(General Education Course or Elective) | 3 |
|-----------|--|---|

|           |  |   |
|-----------|--|---|
| PHIL 3040 | PHILOSOPHY OF LAW (General Education Course or Elective) | 3 |
|-----------|--|---|

|                            |   |
|----------------------------|---|
| World Language Course 2120 | 3 |
|----------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

**Junior****Fall**

|           |                   |   |
|-----------|-------------------|---|
| PHIL 3210 | SOCIAL PHILOSOPHY | 3 |
|-----------|-------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

**Spring**

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|           |   |   |
|-----------|---|---|
| PHIL 3050 | ETHICAL THEORY (General Education Course or Elective) | 3 |
|-----------|---|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |     |
|--------------------------------------|-----|
| General Education Course or Elective | 3-4 |
|--------------------------------------|-----|

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

|                |              |
|----------------|--------------|
| <b>Credits</b> | <b>15-16</b> |
|----------------|--------------|

**Senior****Fall**

|  |   |
|--|---|
| Upper-level Philosophy (i.e., PHIL 3000/4000) Course of Choice, such as PHIL 3650 Epistemology | 3 |
|--|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
|--------------------------------------|---|

|          |   |
|----------|---|
| Elective | 3 |
|----------|---|

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

**Spring**

|  |   |
|--|---|
| Approved PHIL 3000/4000 Level Ethics, Law, and Social Political Philosophy Course, such as PHIL 3220 Philosophy of Art | 3 |
|--|---|

|          |   |
|----------|---|
| Elective | 3 |
|----------|---|

|          |   |
|----------|---|
| Elective | 3 |
|----------|---|

|          |   |
|----------|---|
| Elective | 3 |
|----------|---|

|          |   |
|----------|---|
| Elective | 3 |
|----------|---|

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

|                      |                |
|----------------------|----------------|
| <b>Total Credits</b> | <b>119-121</b> |
|----------------------|----------------|

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Philosophy Minor

### Philosophy Minor Requirements

The requirements for the minor in philosophy are 15 hours in philosophy, of which no more than 6 may be below the 3000 level, completed with a grade of C- or higher.

## Ethics Minor

### Ethics Minor Requirements

The requirements for the minor in ethics are 15 hours of approved coursework, of which no more than 6 may be below the 3000 level, completed with a grade of C- or higher. No more than 6 hours counted as credit toward a major or another minor may be counted as credit toward the ethics minor. All special topics courses and independent studies are permitted only upon review and approval.

| Code  | Title   | Credits  |
|---|---|----------|
| <b>Core Requirement</b>   |   |          |
| PHIL 2030   | INTRODUCTION TO ETHICS  | 3        |
| <b>Elective Requirement</b>   |   |          |
| <b>3 hours from any of the courses listed below (Theory, Applied, or Optional Electives):</b> |   | <b>3</b> |
| <b>Ethical Theory Requirement</b>   |   |          |
| <b>6 hours minimum selected only from the following list:</b>                                 |   | <b>6</b> |
| PHIL 2040   | INTRODUCTION TO EAST ASIAN PHILOSOPHY                                 |          |
| PHIL 3050   | ETHICAL THEORY  |          |
| PHIL 3060   | VALUES AND VIRTUES  |          |
| PHIL 3110   | HISTORY OF ANCIENT PHILOSOPHY   |          |
| PHIL 3180   | ENVIRONMENTAL ETHICS  |          |
| PHIL 3210   | SOCIAL PHILOSOPHY   |          |
| PHIL 3500   | PROBLEMS IN PHILOSOPHY (Ethical theory focus; requires approval)      |          |
| PHIL 3960   | READINGS IN PHILOSOPHY (Ethical theory focus; requires approval)      |          |
| RELI 2010   | RELIGION AND CRITICAL THOUGHT   |          |
| RELI 2020   | RELIGION AND HUMAN RIGHTS   |          |
| RELI 2200   | GLOBAL RELIGIOUS ETHICS: THE BASICS                                   |          |
| RELI 3500   | TOPICS IN RELIGIOUS STUDIES (Ethical theory focus; requires approval) |          |
| RELI 3960   | READINGS IN RELIGION (Ethical theory focus; requires approval)        |          |
| RELI 4200   | COMPARATIVE RELIGIOUS ETHICS  |          |
| <b>Applied Ethics Requirement</b>   |   |          |
| <b>3 hours minimum selected only from the following courses (A, B, or C):</b>                 |   | <b>3</b> |
| <b>A. Justice and Law</b>   |   |          |

|           |   |
|-----------|---|
| PHIL 1040 | INTRODUCTION TO PHILOSOPHY: LAW, POLITICS, AND SOCIETY    |
| PHIL 3010 | PHILOSOPHY OF JUSTICE                                     |
| PHIL 3020 | THE JUSTIFICATION OF PUNISHMENT                           |
| PHIL 3040 | PHILOSOPHY OF LAW   |
| PHIL 3070 | LEADERSHIP ETHICS IN PRACTICE                             |
| PHIL 3170 | ETHICS IN BUSINESS  |
| PHIL 3490 | GENDER AND PHILOSOPHY                                     |
| PHIL 3500 | PROBLEMS IN PHILOSOPHY (Applied focus; requires approval) |
| PHIL 3960 | READINGS IN PHILOSOPHY (Applied focus; requires approval) |
| PSCI 3240 | THE POLITICS AND PRACTICE OF HUMAN RIGHTS                 |
| PSCI 4310 | CLASSICAL POLITICAL THOUGHT                               |
| PSCI 4320 | EARLY MODERN POLITICAL THOUGHT                            |
| PSCI 4330 | LATE MODERN POLITICAL THOUGHT                             |
| PSCI 4340 | CONTEMPORARY POLITICAL THOUGHT                            |
| PSYC 4800 | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE              |

#### B. Science and Medicine

|              |   |
|--------------|---|
| PHIL 1020    | CONTEMPORARY MORAL PROBLEMS               |
| PHIL 2300    | BIOMEDICAL ETHICS                         |
| or MEDH 2300 | BIOMEDICAL ETHICS                         |
| PHIL 3450    | PHILOSOPHY OF MEDICINE                    |
| PHIL 3480    | PHILOSOPHY OF RACE                        |
| RELI 4210    | PUBLIC HEALTH, RELIGION, AND HUMAN RIGHTS |

#### C. Religious Studies

|           |  |
|-----------|--|
| RELI 2150 | HEBREW SCRIPTURES  |
| RELI 3020 | NATIVE AMERICAN RELIGIONS  |
| RELI 3330 | ROMAN CATHOLIC THOUGHT AND PRACTICE                              |
| RELI 3500 | TOPICS IN RELIGIOUS STUDIES (Applied focus; requires approval)   |
| RELI 3960 | READINGS IN RELIGION (Applied focus; requires approval)          |
| RELI 4250 | WAR, RELIGION, AND HUMAN RIGHTS                                  |
| RELI 4700 | RELIGION, FILM, AND VIOLENCE                                     |
| RELI 4220 | VIOLENT CONFLICTS, PEACEBUILDING, AND THE ETHICS OF INTERVENTION |

#### Optional Electives

##### Up to 3 hours may be counted from the following:

|                    |   |
|--------------------|---|
| BMCH 1100          | ETHICS OF SCIENTIFIC RESEARCH                 |
| BSAD 2600          | ETHICS IN ORGANIZATIONS                       |
| BSAD/MGMT/MKT 3600 | BUSINESS ETHICS                               |
| CIST 3110          | INFORMATION TECHNOLOGY ETHICS                 |
| CNST 420           | PROFESSIONAL PRACTICE AND ETHICS              |
| ENGR 320           | LEADERSHIP, MANAGEMENT, AND ETHICS            |
| ENGR 400           | PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY |
| JMC 4400           | MEDIA ETHICS                                  |
| CRCJ 4060          | CRIMINAL JUSTICE ETHICS                       |
| LAWS 3170          | ETHICS IN BUSINESS                            |
| LAWS 3940          | LEGAL AND ETHICAL APPLICATIONS                |

|                      |  |
|----------------------|--|
| SPED 2100            | PROFESSIONALISM & ETHICS OF INTERPRETING |
| <b>Total Credits</b> | <b>15</b>                                |

Physics

The Physics Department at UNO is a vibrant program well-known for offering quality education, diverse research activities, and broad community outreach programs.

The variety of options students have in the physics program makes our graduates well prepared to thrive in modern industries. Additionally, about a third of physics graduates are accepted into top graduate degree programs where they can pursue a master’s or doctoral degree in physics, physics education, engineering, chemistry, astrophysics, biophysics and medical physics. Our curriculum is flexible and provides students with a number of options to better prepare them for the career of their choice.

In addition to our Bachelors of Science program we offer concentrations in Biomedical Physics and Physics Education. The Physics Department emphasizes involving its physics majors in undergraduate research as well as the education process. Working closely with the faculty provides students a valuable experience. Beyond-the-classroom learning opportunities engage students and create a sense of community. Research projects are available in the following areas: astrophysics, biophysics, medical physics, computational physics, quantum computing, materials for energy applications, solid-state physics, and physics education.

Other Information

All coursework taken for the Physics major or minor must be completed with a grade of “C-” or better.

Physics majors must also take the two assessment tests (Major Field Test and Local Test) and complete the exit interview.

Apart from PHYS 1154, PHYS 1164, and PHYS 1950, no 1000-level courses may count toward the major requirements in physics. However, they do count as electives for various other college degrees.

Physics majors should strive to take as many of the courses in modern physics (PHYS 4210, PHYS 4220, PHYS 4230) and electronics (PHYS 3500) as their program will permit.

The **senior project** must be approved and the department chair notified at least eight months prior to graduation as a Physics major and the student must register for either PHYS 4950 or PHYS 4960.

Upper division courses (3000-level or higher) will assume that students have at least some experience with, and ability to use, computers for solving physics problems.

Physics is also offered as a concentration in the Division of Continuing Studies.

Contact

129 DSC  
402.554.2511

Website (<http://www.physics.unomaha.edu/>)

Degrees Offered

- Physics, Bachelor of Arts (p. 276)
- Physics, Bachelor of Science (p. 279)
- Physics, Bachelor of Science with a Concentration in Biomedical Physics (p. 281)

- Physics, Bachelor of Science with a Concentration in Physics Education (p. 283)

Minors Offered

- Physics Minor (p. 285)

Physics is one of the broadest scientific disciplines. Most students develop expertise with a great variety of hands-on experiences with instrumentation, fabrication, analytical techniques and computer modeling. These practical skills make physicists attractive to employers in physics, engineering, financial and computer science fields.

Particular skills include: research and problem solving, fluency in using scientific equipment, refined mathematical skills, programming, modeling and simulation, and quality control protocol.

“Soft skills” are also vital to successful career. Soft skills you would be trained in at the university include: cultivating strategic written and oral communication skills, learning to work well on a team, and being a good listener.

Some common jobs for those who have a bachelor’s degree in physics include:

- Design or process engineer
- Software engineer
- Applications engineer
- Inside sales engineer
- Research analyst
- Lab technician
- IT developer (administrator, consultant)
- Programmer
- High school science teacher
- Accelerator operator
- Data analyst
- Systems analyst
- Technical specialist.

If students choose to continue and receive a graduate degree the 10 most common jobs are

- Research scientist (at tech companies, national laboratories or universities)
- Professor, physics teacher
- Data scientist
- Lab manager
- Medical physicist
- Aerospace engineer
- Astronomer
- Environmental scientist
- Geophysicist.

Physics, Bachelor of Arts

Physics, Bachelor of Arts Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of “C-”required                                   |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |       |           |

|   |  |
|---|--|
| ENGL 1150   | ENGLISH COMPOSITION I  |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                                |
| <b>Oral Communication – 3 hrs.</b>  |  |
| CMST 1110   | PUBLIC SPEAKING FUNDS  |
| or CMST 2120  | ARGUMENTATION AND DEBATE   |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                  |
| or MATH 1130  | QUANTITATIVE LITERACY  |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                      |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT   |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION  |
| STAT 1530   | ELEMENTARY STATISTICS  |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge 13</b>  |  |
| Social Science – 3 hrs.   |  |
| Humanities – 3 hrs.   |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility 6</b>   |  |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>Physics Bachelor Arts - 49 Hours Required</b>  |  |
| <b>Required coursework 48</b>   |  |
| PHYS 1950   | PHYSICS GATEWAY COURSE   |
| PHYS 2110 & PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (**) |
| PHYS 2120 & PHYS 1164   | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II      |
| PHYS 2130   | MODERN PHYSICS   |
| PHYS 3250   | MATHEMATICAL METHODS OF PHYSICS  |
| MATH 1950   | CALCULUS I (^)   |
| MATH 1960   | CALCULUS II  |
| MATH 1970   | CALCULUS III   |
| PHYS 3450   | CLASSICAL MECHANICS  |
| PHYS 3600   | THERMODYNAMICS AND STATISTICAL PHYSICS                                   |
| PHYS 3750   | ELECTRICITY AND MAGNETISM I  |
| PHYS 3800   | OPTICS   |
| PHYS 4200   | INTRODUCTION TO QUANTUM MECHANICS  |
| PHYS 3504   | EXPERIMENTAL PHYSICS I   |
| PHYS 4950   | PROBLEMS IN PHYSICS  |
| or PHYS 4960  | PROBLEMS IN PHYSICS  |
| <b>Select one of the following 1</b>  |  |
| PHYS 3524   | EXPERIMENTAL MATERIALS SCIENCE   |
| PHYS 3544   | EXPERIMENTAL PHYSICS III   |
| PHYS 3564   | EXPERIMENTAL PHYSICS IV  |

\*Students taking a number of 2000-level mathematics courses may be permitted to waive PHYS 3250 or PHYS 3260.

### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

### Bachelor Arts Language Requirements 16

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Physics, Bachelor of Arts Four Year Plan

### Freshman

| Fall  |                        | Credits   |
|---|------------------------|-----------|
| ENGL 1150   | ENGLISH COMPOSITION I  | 3         |
| MATH 1950   | CALCULUS I             | 5         |
| PHYS 1950   | PHYSICS GATEWAY COURSE | 1         |
| World Language Course 1110  |                        | 5         |
| Elective  |                        | 1         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |                        |           |
| <b>Credits</b>  |                        | <b>15</b> |

### Spring

|  |   |           |
|--|---|-----------|
| MATH 1960  | CALCULUS II   | 4         |
| PHYS 2110 & PHYS 1154  | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I | 5         |
| World Language Course 1120   |   | 5         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |
| <b>Credits</b>   |   | <b>14</b> |

### Sophomore

| Fall                       |   |   |
|----------------------------|---|---|
| MATH 1970                  | CALCULUS III  | 4 |
| CMST 1110                  | PUBLIC SPEAKING FUNDS   | 3 |
| or CMST 2120               | or ARGUMENTATION AND DEBATE   |   |
| PHYS 2120 & PHYS 1164      | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II | 5 |
| World Language Course 2110 |   | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

| Credits  |   | 15 |
|--|---|----|
| <b>Spring</b>  |   |    |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3  |
| PHYS 2130  | MODERN PHYSICS                            | 4  |
| PHYS 3250  | MATHEMATICAL METHODS OF PHYSICS           | 3  |
| World Language Course 2120   |   | 3  |
| Elective   |   | 3  |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |   |    |

| Credits  |  | 16 |
|--|--|----|
| <b>Junior</b>  |  |    |
| <b>Fall</b>  |  |    |
| PHYS 3600  | THERMODYNAMICS AND STATISTICAL PHYSICS | 3  |
| PHYS 3750  | ELECTRICITY AND MAGNETISM I            | 3  |
| PHYS 3504  | EXPERIMENTAL PHYSICS I                 | 1  |
| General Education Course or Elective   |  | 3  |
| General Education Course or Elective   |  | 3  |
| Elective   |  | 3  |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |    |

| Credits  |                                | 16 |
|--|--------------------------------|----|
| <b>Spring</b>  |                                |    |
| PHYS 3450  | CLASSICAL MECHANICS            | 3  |
| PHYS 3524  | EXPERIMENTAL MATERIALS SCIENCE | 1  |
| PHYS 3800  | OPTICS                         | 3  |
| General Education Course or Elective   |                                | 3  |
| General Education Course or Elective   |                                | 3  |
| General Education Course or Elective   |                                | 3  |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |                                |    |

| Credits                              |                                   | 16 |
|--------------------------------------|-----------------------------------|----|
| <b>Senior</b>                        |                                   |    |
| <b>Fall</b>                          |                                   |    |
| PHYS 4200                            | INTRODUCTION TO QUANTUM MECHANICS | 3  |
| General Education Course or Elective |                                   | 3  |
| General Education Course or Elective |                                   | 3  |
| General Education Course or Elective |                                   | 3  |
| Elective                             |                                   | 3  |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

| Credits  |   | 15      |
|--|---|---------|
| <b>Spring</b>  |   |         |
| PHYS 4950<br>or PHYS 4960  | PROBLEMS IN PHYSICS (*)<br>or PROBLEMS IN PHYSICS | 1-3     |
| Elective   |   | 3       |
| Elective   |   | 3       |
| Elective   |   | 3       |
| Elective   |   | 3       |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |   |         |
| Credits  |   | 13-15   |
| Total Credits  |   | 120-122 |

Graduation Requirements: Physics majors must also take the two assessment tests (Major Field Test and Local test) and complete the exit interview.

The senior project must be approved and the department chair notified at least eight months prior to graduation as a Physics major and the student must register for either PHYS 4950 (<https://catalog.unomaha.edu/search/?P=PHYS%204950>) or PHYS 4960 (<https://catalog.unomaha.edu/search/?P=PHYS%204960>).

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>. Transfer credit or placement exam scores may change suggested plan of study.

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

# Physics, Bachelor of Science

## Physics, Bachelor of Science Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |  |           |
| Minimum of "C-" required  |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I  |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                                |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS  |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                  |           |
| or MATH 1130  | QUANTITATIVE LITERACY  |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                      |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT   |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION  |           |
| STAT 1530   | ELEMENTARY STATISTICS  |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>Physics Bachelor of Science - 55 Hours Required</b>  |  | <b>48</b> |
| <b>Required coursework</b>  |  |           |
| PHYS 1950   | PHYSICS GATEWAY COURSE   |           |
| PHYS 2110 & PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (**) |           |
| PHYS 2120 & PHYS 1164   | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II      |           |
| PHYS 2130   | MODERN PHYSICS   |           |
| PHYS 3250   | MATHEMATICAL METHODS OF PHYSICS  |           |
| MATH 1950   | CALCULUS I (^)   |           |
| MATH 1960   | CALCULUS II  |           |
| MATH 1970   | CALCULUS III   |           |
| PHYS 3450   | CLASSICAL MECHANICS  |           |
| PHYS 3600   | THERMODYNAMICS AND STATISTICAL PHYSICS                                   |           |

|   |                                   |               |
|---|-----------------------------------|---------------|
| PHYS 3750   | ELECTRICITY AND MAGNETISM I       |               |
| PHYS 3800   | OPTICS                            |               |
| PHYS 4200   | INTRODUCTION TO QUANTUM MECHANICS |               |
| PHYS 3504   | EXPERIMENTAL PHYSICS I            |               |
| PHYS 4950   | PROBLEMS IN PHYSICS               |               |
| or PHYS 4960  | PROBLEMS IN PHYSICS               |               |
| <b>Select one of the following</b>  |                                   | <b>1</b>      |
| PHYS 3524   | EXPERIMENTAL MATERIALS SCIENCE    |               |
| PHYS 3544   | EXPERIMENTAL PHYSICS III          |               |
| PHYS 3564   | EXPERIMENTAL PHYSICS IV           |               |
| <b>Select two additional three-hour courses of Physics (PHYS) at the 3000 or 4000 Level</b>                   |                                   | <b>6</b>      |
| *Students taking a number of 2000-level mathematics courses may be permitted to waive PHYS 3250 or PHYS 3260. |                                   |               |
| <b>College Breadth (choose one option)</b>  |                                   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours                                     |                                   |               |
| Option 2: Additional General Education Requirements - 18+ hours   |                                   |               |
| Additional quantitative literacy - 3 hours  |                                   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours  |                                   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |                                   |               |
| HIST 1000 and HIST 1010 - 6 hours   |                                   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours  |                                   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)                             |                                   |               |
| <b>Bachelor Science Cognate Requirement</b>   |                                   | <b>15-16</b>  |
| See Advisor   |                                   |               |
| <b>ELECTIVES</b>  |                                   |               |
| Elective hours as required to reach a total of 120 hours  |                                   |               |

## Physics, Bachelor of Science Four Year Plan

| Freshman  |   | Credits   |
|---|---|-----------|
| <b>Fall</b>   |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS   | 3         |
| or CMST 2120  | or ARGUMENTATION AND DEBATE   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   | 3         |
| MATH 1950   | CALCULUS I  | 5         |
| PHYS 1950   | PHYSICS GATEWAY COURSE  | 1         |
| General Education Course or Elective  |   | 3         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |           |
| <b>Credits</b>  |   | <b>15</b> |
| <b>Spring</b>   |   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                           | 3         |
| MATH 1960   | CALCULUS II   | 4         |
| PHYS 2110 & PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I | 5         |
| General Education Course or Elective  |   | 3         |



Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and

**Credits** **15**

### Sophomore

#### Fall

|                                      |   |   |
|--------------------------------------|---|---|
| MATH 1970                            | CALCULUS III  | 4 |
| PHYS 2120 & PHYS 1164                | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II | 5 |
| General Education Course or Elective |   | 3 |
| General Education Course or Elective |   | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

#### Spring

|                                      |                                 |   |
|--------------------------------------|---------------------------------|---|
| PHYS 2130                            | MODERN PHYSICS                  | 4 |
| PHYS 3250                            | MATHEMATICAL METHODS OF PHYSICS | 3 |
| General Education Course or Elective |                                 | 3 |
| General Education Course or Elective |                                 | 3 |
| General Education Course or Elective |                                 | 2 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February - March.

**Credits** **15**

### Junior

#### Fall

|                         |  |   |
|-------------------------|--|---|
| PHYS 3504               | EXPERIMENTAL PHYSICS I                 | 1 |
| PHYS 3750               | ELECTRICITY AND MAGNETISM I            | 3 |
| PHYS 3600               | THERMODYNAMICS AND STATISTICAL PHYSICS | 3 |
| Elective/Cognate Course |  | 3 |
| Elective                |  | 3 |
| Elective                |  | 2 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15**

#### Spring

|                         |                                |   |
|-------------------------|--------------------------------|---|
| PHYS 3450               | CLASSICAL MECHANICS            | 3 |
| PHYS 3800               | OPTICS                         | 3 |
| PHYS 3524               | EXPERIMENTAL MATERIALS SCIENCE | 1 |
| Elective/Cognate Course |                                | 3 |
| Elective                |                                | 3 |
| Elective                |                                | 2 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February - March.

**Credits** **15**

### Senior

#### Fall

|  |                                   |   |
|--|-----------------------------------|---|
| PHYS 4200  | INTRODUCTION TO QUANTUM MECHANICS | 3 |
| Upper-level PHYS, such as PHYS 3500 or PHYS 4350 |                                   | 3 |
| Elective or Cognate Course                       |                                   | 3 |
| Elective or Cognate Course                       |                                   | 3 |
| Elective   |                                   | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

#### Spring

|  |   |   |
|--|---|---|
| PHYS 4950 or PHYS 4960                     | PROBLEMS IN PHYSICS (**) or PROBLEMS IN PHYSICS | 1 |
| Upper-level PHYS such as PHYS 3760 or 4210 |   | 3 |
| Elective                                   |   | 3 |
| Elective                                   |   | 3 |
| Elective                                   |   | 3 |
| Elective                                   |   | 2 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120**

Graduation Requirements: Physics majors must also take the two assessment tests (Major Field Test and Local test) and complete the exit interview.

The senior project must be approved and the department chair notified at least eight months prior to graduation as a Physics major and the student must register for either PHYS 4950 (<https://catalog.unomaha.edu/search/?P=PHYS%204950>) or PHYS 4960 (<https://catalog.unomaha.edu/search/?P=PHYS%204960>).

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://>

[www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php](http://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php)

Transfer credit or placement exam scores may change suggested plan of study.

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Physics, Bachelor of Science with a Concentration in Biomedical Physics

### Physics, Bachelor of Science with a Concentration in Biomedical Physics Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |

\*\*Course will satisfy UNO's General Education requirement

|   |  |
|---|--|
| ^Course requires pre-requisite(s)   |  |
| <b>Major Requirements - 55 Hours Required</b>   |  |
| <b>Required Coursework</b>  | <b>54</b>  |
| PHYS 1950   | PHYSICS GATEWAY COURSE   |
| PHYS 2110 & PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (**) |
| PHYS 2120 & PHYS 1164   | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II      |
| PHYS 2130   | MODERN PHYSICS   |
| PHYS 3250   | MATHEMATICAL METHODS OF PHYSICS (*)                                      |
| MATH 1950   | CALCULUS I   |
| MATH 1960   | CALCULUS II  |
| MATH 1970   | CALCULUS III   |
| PHYS 3300   | INTRODUCTION TO BIOMEDICAL PHYSICS                                       |
| PHYS 3450   | CLASSICAL MECHANICS  |
| PHYS 3600   | THERMODYNAMICS AND STATISTICAL PHYSICS                                   |
| PHYS 3750   | ELECTRICITY AND MAGNETISM I  |
| PHYS 3800   | OPTICS   |
| PHYS 3504   | EXPERIMENTAL PHYSICS I   |
| PHYS 4500   | BIOLOGICAL PHYSICS   |
| PHYS 4550   | PHYSICS IN MEDICINE  |
| PHYS 4950   | PROBLEMS IN PHYSICS  |
| or PHYS 4960  | PROBLEMS IN PHYSICS  |
| <b>Select one of the following:</b>   |  |
| PHYS 3524   | EXPERIMENTAL MATERIALS SCIENCE   |
| PHYS 3544   | EXPERIMENTAL PHYSICS III   |
| PHYS 3564   | EXPERIMENTAL PHYSICS IV  |
| <b>The following courses from other disciplines are recommended:</b>  |  |
| CHEM 1180 & CHEM 1184   | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (**)              |
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY                 |
| CHEM 2250   | ORGANIC CHEMISTRY I  |
| CHEM 2260 & CHEM 2274   | ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY                    |
| <b>And either:</b>  |  |
| CHEM 4610   | BIOCHEMISTRY OF METABOLISM   |
| <b>Or:</b>  |  |
| BIOL 1450   | BIOLOGY I (**)   |
| BIOL 1750   | BIOLOGY II   |
| CHEM 4650 & CHEM 4654   | BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY                             |
| CHEM 4660 & CHEM 4664   | BIOCHEMISTRY II and BIOCHEMISTRY II LABORATORY                           |
| *Students taking a number of 2000-level mathematics courses may be permitted to waive PHYS 3250 or PHYS 3260. |  |
| <b>College Breadth (choose one option)</b>  | <b>15-30+</b>  |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours                                     |  |
| Option 2: Additional General Education Requirements - 18+ hours   |  |
| Additional quantitative literacy - 3 hours  |  |

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor Science Cognate Requirement - 15-16**

See Advisor

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Physics, Bachelor of Science with a Concentration in Biomedical Physics Four Year Plan

### Freshman

| Fall  |  | Credits   |
|---|--|-----------|
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3         |
| MATH 1950   | CALCULUS I   | 5         |
| PHYS 1950   | PHYSICS GATEWAY COURSE                               | 1         |
| General Education Course or Elective  |  | 3         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |           |
| <b>Credits</b>  |  | <b>15</b> |

### Spring

|  |  |           |
|--|--|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY                              | 3         |
| MATH 1960  | CALCULUS II  | 4         |
| PHYS 2110<br>& PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY I | 5         |
| General Education Course or Elective   |  | 3         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Sophomore

| Fall   |  | Credits   |
|--|--|-----------|
| MATH 1970  | CALCULUS III   | 4         |
| PHYS 2120<br>& PHYS 1164   | GENERAL PHYSICS II-CALCULUS LEVEL<br>and GENERAL PHYSICS LABORATORY II | 5         |
| General Education Course or Elective   |  | 3         |
| General Education Course or Elective   |  | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Spring

|  |                                    |   |
|--|------------------------------------|---|
| PHYS 2130  | MODERN PHYSICS                     | 4 |
| PHYS 3250  | MATHEMATICAL METHODS OF PHYSICS    | 3 |
| PHYS 3300  | INTRODUCTION TO BIOMEDICAL PHYSICS | 3 |
| General Education Course or Elective   |                                    | 3 |
| General Education Course or Elective   |                                    | 2 |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                                    |   |

**Credits 15**

### Junior

| Fall   |  | Credits |
|--|--|---------|
| PHYS 3504  | EXPERIMENTAL PHYSICS I                       | 1       |
| PHYS 3600  | THERMODYNAMICS AND STATISTICAL PHYSICS       | 3       |
| PHYS 3504  | EXPERIMENTAL PHYSICS I                       | 1       |
| PHYS 4500<br>or PHYS 4550  | BIOLOGICAL PHYSICS<br>or PHYSICS IN MEDICINE | 3       |
| Elective or Cognate Course   |  | 3       |
| Elective or Cognate Course   |  | 3       |
| Elective   |  | 2       |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |         |

**Credits 16**

### Spring

|  |                                |   |
|--|--------------------------------|---|
| PHYS 3450  | CLASSICAL MECHANICS            | 3 |
| PHYS 3524  | EXPERIMENTAL MATERIALS SCIENCE | 1 |
| PHYS 3800  | OPTICS                         | 3 |
| Elective/Cognate Course  |                                | 3 |
| Elective   |                                | 3 |
| Elective   |                                | 2 |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |                                |   |

**Credits 15**

### Senior

| Fall   |  | Credits |
|--|--|---------|
| PHYS 3750  | ELECTRICITY AND MAGNETISM I                  | 3       |
| PHYS 4550<br>or PHYS 4500  | PHYSICS IN MEDICINE<br>or BIOLOGICAL PHYSICS | 3       |
| Elective or Cognate Course   |  | 3       |
| Elective or Cognate Course   |  | 3       |
| Elective   |  | 2       |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |  |         |

**Credits 14**

**Spring**

|  |                         |            |
|--|-------------------------|------------|
| PHYS 4950  | PROBLEMS IN PHYSICS (*) | 1          |
| or PHYS 4960   | or PROBLEMS IN PHYSICS  |            |
| Elective or Cognate Course   |                         | 3          |
| Elective   |                         | 3          |
| Elective   |                         | 3          |
| Elective   |                         | 3          |
| Elective   |                         | 2          |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |                         |            |
| <b>Credits</b>   |                         | <b>15</b>  |
| <b>Total Credits</b>   |                         | <b>120</b> |

Graduation Requirements: Physics majors must also take the two assessment tests (Major Field Test and Local test) and complete the exit interview.

The senior project must be approved and the department chair notified at least eight months prior to graduation as a Physics major and the student must register for either PHYS 4950 (<https://catalog.unomaha.edu/search/?P=PHYS%204950>) or PHYS 4960 (<https://catalog.unomaha.edu/search/?P=PHYS%204960>).

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Physics, Bachelor of Science with a Concentration in Physics Education

To obtain a B.S. with a major in Physics, a student must fulfill university, college, and departmental requirements.

## Physics, Bachelor of Science with a Concentration in Physics Education Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |  |           |
| Minimum of "C-" required  |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I  |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                                |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS  |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                  |           |
| or MATH 1130  | QUANTITATIVE LITERACY  |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                      |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT   |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION  |           |
| STAT 1530   | ELEMENTARY STATISTICS  |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.   |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>Physics Major with a Concentration in Physics Education - 95 Hours Required</b>  |  |           |
| A Bachelor of Science in physics with a concentration in education leads to a physics teaching certificate at the secondary-school level. In some cases, it is possible to earn both a B.S. in physics and a B.S. in secondary education. |  |           |
| <b>Required Coursework</b>  |  | <b>56</b> |
| PHYS 1350 & PHYS 1354   | PRINCIPLES OF ASTRONOMY and INTRODUCTORY ASTRONOMY LAB                   |           |
| PHYS 1950   | PHYSICS GATEWAY COURSE   |           |
| PHYS 2110 & PHYS 1154   | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (**) |           |
| PHYS 2120 & PHYS 1164   | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II      |           |
| PHYS 2130   | MODERN PHYSICS   |           |

|                       |   |
|-----------------------|---|
| PHYS 3250             | MATHEMATICAL METHODS OF PHYSICS                             |
| PHYS 3300             | INTRODUCTION TO BIOMEDICAL PHYSICS                          |
| PHYS 3450             | CLASSICAL MECHANICS   |
| PHYS 3504             | EXPERIMENTAL PHYSICS I                                      |
| PHYS 3600             | THERMODYNAMICS AND STATISTICAL PHYSICS                      |
| PHYS 3750             | ELECTRICITY AND MAGNETISM I                                 |
| GEOL 1170             | INTRODUCTION TO PHYSICAL GEOLOGY (**)                       |
| MATH 1950             | CALCULUS I (Requires MATH 1330 or MATH 1340)                |
| MATH 1960             | CALCULUS II   |
| MATH 1970             | CALCULUS III  |
| CHEM 1180 & CHEM 1184 | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (**) |

**Additional Requirements for Educator Preparation include a Major Field Test and Local Test**

**Select all of the following Educator Preparation Program Requirements** **27**

|             |   |
|-------------|---|
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)                     |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^) |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY         |
| TED 2380    | DEVELOPMENT AND LEARNING IN ADOLESCENCE         |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING                 |
| TED 3550    | SECONDARY CLASSROOM MANAGEMENT (^)              |
| TED 3690    | LITERACY AND LEARNING (^)                       |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)         |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)     |

**In addition, earning the grades 6-12 Nebraska Teaching Certificate requires a semester of Clinical Practice** **12**

|          |  |
|----------|--|
| TED 4600 | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |
|----------|--|

**College Breadth**

College of Arts and Sciences' college breadth requirement satisfied by this major

**Bachelor Science Cognate Requirement**

Cognate requirement is satisfied within the major.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Physics, Bachelor of Science with a Concentration in Physics Education Four Year Plan

**Freshman**

| <b>Fall</b>           |  | <b>Credits</b> |
|-----------------------|--|----------------|
| PHYS 1350 & PHYS 1354 | PRINCIPLES OF ASTRONOMY and INTRODUCTORY ASTRONOMY LAB | 4              |
| CMST 1110             | PUBLIC SPEAKING FUNDS                                  | 3              |
| ENGL 1150             | ENGLISH COMPOSITION I                                  | 3              |
| MATH 1950             | CALCULUS I   | 5              |
| PHYS 1950             | PHYSICS GATEWAY COURSE                                 | 1              |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits** **16**

**Spring**

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                           | 3 |
| MATH 1960                            | CALCULUS II   | 4 |
| PHYS 2110 & PHYS 1154                | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I | 5 |
| General Education Course or Elective |   | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Sophomore**

**Fall**

|                       |   |   |
|-----------------------|---|---|
| MATH 1970             | CALCULUS III  | 4 |
| PHYS 2120 & PHYS 1164 | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II                 | 5 |
| TED 2100              | EDUCATIONAL FOUNDATIONS   | 3 |
| TED 2200 or TED 2060  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3 |

Required: Apply for Educator Preparation Program at this time.

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

Recommended but not required: Pass the Praxis CORE Academic Skills.

**Credits** **15**

**Spring**

|           |   |   |
|-----------|---|---|
| PHYS 2130 | MODERN PHYSICS                          | 4 |
| PHYS 3250 | MATHEMATICAL METHODS OF PHYSICS         | 3 |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE | 3 |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)     | 6 |

\*TED 2400 and 2380 must be taken back-to-back, in either a Morning or Afternoon block.

Required: Pass Praxis CORE Academic Skills by the end of this semester.

Required: Acceptance into Educator Preparation Program. Must have 2.75 GPA.

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits** **16**



**Junior****Fall**

|  |  |   |
|--|--|---|
| PHYS 3600  | THERMODYNAMICS AND STATISTICAL PHYSICS | 3 |
| PHYS 3504  | EXPERIMENTAL PHYSICS I                 | 1 |
| GEOL 1170  | INTRODUCTION TO PHYSICAL GEOLOGY       | 4 |
| General Education Course or Elective   |  | 3 |
| General Education Course or Elective   |  | 4 |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |   |

**Credits** **15**

**Spring**

|                                      |                                    |   |
|--------------------------------------|------------------------------------|---|
| PHYS 3450                            | CLASSICAL MECHANICS                | 3 |
| PHYS 3300                            | INTRODUCTION TO BIOMEDICAL PHYSICS | 3 |
| TED 3550                             | SECONDARY CLASSROOM MANAGEMENT (*) | 3 |
| TED 3690                             | LITERACY AND LEARNING (*)          | 3 |
| General Education Course or Elective |                                    | 3 |

\*TED 3550 and TED 3690 must be taken back-to-back, in either a Morning or Afternoon block.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Senior****Fall**

|                                      |  |   |
|--------------------------------------|--|---|
| CHEM 1180 & CHEM 1184                | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY | 4 |
| SPED 3800                            | DIFFERENTIATION AND INCLUSIVE PRACTICES                | 3 |
| PHYS 3750                            | ELECTRICITY AND MAGNETISM I                            | 3 |
| TED 4000                             | SPECIAL METHODS IN THE CONTENT AREA                    | 3 |
| General Education Course or Elective |  | 3 |

\*SPED 3800: Must be taken concurrently with TED 4000 or TED 3550

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **16**

**Spring**

|          |  |    |
|----------|--|----|
| TED 4600 | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12 |
|----------|--|----|

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **12**

**Total Credits** **120**

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

GPA Requirements: 2.75

Graduation Requirements: Major Field Test, Local Test. For Teaching Certificate: Completion of Praxis CORE

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Physics Minor

### Physics Minor Requirements

The physics minor requires 18 credit hours in physics coursework, as outlined below. Minimum grade required for each course is "C-".

| Code  | Title  | Credits  |
|---|--|----------|
| <b>Required Courses:</b>  |  | <b>9</b> |
| PHYS 2110   | GENERAL PHYSICS I - CALCULUS LEVEL (4 cr)                            |          |
| PHYS 2120   | GENERAL PHYSICS II-CALCULUS LEVEL (4 cr)                             |          |
| PHYS 1154<br>or PHYS 1164   | GENERAL PHYSICS LABORATORY I (1 cr)<br>GENERAL PHYSICS LABORATORY II |          |
| <b>Students must select 9 credit hours with a minimum of 6 credits at the 3000/4000 level.</b>                        |  |          |
| Select 6 credits from the following:  |  | 6        |
| PHYS 3450   | CLASSICAL MECHANICS (3 cr)   |          |
| PHYS 3600   | THERMODYNAMICS AND STATISTICAL PHYSICS (3 cr)                        |          |
| PHYS 3750   | ELECTRICITY AND MAGNETISM I (3 cr)                                   |          |
| PHYS 3800   | OPTICS (3 cr)  |          |
| PHYS 4200   | INTRODUCTION TO QUANTUM MECHANICS (3 cr)                             |          |
| Select an additional 3 credits in physics from 1000-4000 level, excluding PHYS 1030, 1034, 1050, 1054, 1110 and 1120. |  | 3        |

Note: PHYS 3250 is a common prerequisite to other physics courses and could be a helpful free elective. Additionally, MATH 1950 and MATH 1960 are required for PHYS 2110 and PHYS 2120 respectively, with MATH 1970 being a common prerequisite to other physics courses.



## Political Science

A major in political science prepares students for a rich and rewarding career. Political science graduates are well equipped for professions both at home and abroad in the fields of law, business, criminal justice, education, journalism, and government service at the local, state, and federal levels. In fact, many political science graduates have reached the pinnacle of their respective professions.

Political science is a flexible major, with the curriculum available **on campus or entirely online**. Political science is among the most popular liberal arts majors and is highly suitable for combination as a **double major** with other disciplines such as business, economics, foreign languages, history, international studies, philosophy, psychology, and sociology, among others.

The Bachelor of Arts and Bachelor of Science degrees may be obtained with or without a concentration. Students may pursue concentrations in government affairs and civic engagement, foreign and national security affairs, law and the courts, political thought, and race, ethnicity and gender politics.

## Public Service

The political science major provides students with the tools to become effective and politically active citizens and leaders. Students learn to process the endless flow of ideas, rhetoric and data that are an inescapable feature of the information age. By polishing valuable skills in analysis, communication, research, and writing, political science classes challenge students to think independently, with an informed awareness of current affairs and tolerance for other points of view. With these skills political science graduates are always among the leaders in community organizations and electoral politics.

## Pre-Law

Political science continues to be the single most popular major among students who apply to law school. Law schools emphasize the importance of a course of study that develops the following skills: an understanding of human nature and human institutions, clarity in written and oral communication, and creative and critical thinking. Political science offers such an education, plus a number of courses that provide undergraduates with a rigorous introduction to legal concepts and arguments, as well as to the operation of the American legal system. Students who are interested in majoring in political science as a preparation for law school are encouraged to pursue a concentration in law and the courts and they are invited to consult with the department's pre-law advisor.

## Other Information

A political science major or minor must earn at least a "C-" in all political science and cognate courses presented in satisfaction of the major or minor.

For the political science minor, 9 credits must be taken in residence at UNO.

For the political science major, 15 credits must be taken in residence at UNO.

Political Science may also be studied through the College of Public Affairs and Community Service in the Division of Continuing Studies. Students interested in this degree program must meet with an advisor in the Division of Continuing Studies. The concentration consists of a minimum of 30 credit hours in political science, details of which are found here (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/division-of-continuing-studies/academics/areas-of-study/political-science.php>).

**Student Groups (<https://www.unomaha.edu/college-of-arts-and-sciences/political-science/student-opportunities/student-organizations.php>)**

UNO Pre-Law Society

## Option for Degree Completion Fast Track Program

The Department of Political Science has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- This program is available for undergraduate students pursuing BA/BS in Political Science or BA in International Studies desiring to pursue a MS in Political Science.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

### Notes:

- 8000-level courses taken at the undergraduate level without having been accepted into the integrated program will not count towards a graduate program.
- Students accepted into the Fast Track program may be denied entry into the graduate program due to, but not limited to poor performance, academic integrity issues, and other violations of the student code of conduct.
- Before starting graduate work, students are expected to complete all PSCI subfield introductory courses (1100, 2000, 2210, 2310, and 2500) and 2-3 (3000/4000) level political science courses.
- Please inquire with the Department of Political Science graduate advisor for more information about this program.

## Other Program Related Information

The Departments of History and Political Science have developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

**Program Specifics:**

- This program is available for undergraduate students pursuing BA/BS in History or BA/BS in Political Science desiring to pursue a MA in History and Government.
- Students must have completed no less than 95 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
    - If students obtain a minimum GPA of 3.8 in the graduate courses taken within the Fast Track Program, this will be considered a plus factor for admission to the master's degree program.
  - The admit term must be after the completion term of the undergraduate degree.

## Contact Information

275 Arts &amp; Sciences Hall

402.554.2624

Website (<http://www.unomaha.edu/college-of-arts-and-sciences/political-science/>)

## Degrees Offered

- Political Science, Bachelor of Arts (p. 287)
- Political Science, Bachelor of Science (p. 294)

## Minors Offered

- Political Science Minor (p. 300)
- Leadership and Public Policy Minor (p. 300)

Political Science majors make great employees in any field because of their ability to communicate effectively, think critically and solve complex problems. These timeless skills make them attractive to employers in all walks of society. Specifically though, Political Science majors often pursue careers in:

- Government
- Public Sector Jobs
- National Security
- Journalism and Media
- Law
- Diplomacy & International Affairs
- Business
- Human Rights
- Education

- Military
- Nonprofit & International Organizations

# Political Science, Bachelor of Arts

## Political Science Bachelor of Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Political Science BA - 36 Hours Required</b>   |   |           |
| At least 18 hours of political science courses must be taken at the 3000 - 4000 levels.   |   |           |
| <b>Required Courses</b>   |   | <b>15</b> |
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)       |           |
| PSCI 2000   | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^)       |           |
| PSCI 2210   | INTRODUCTION TO INTERNATIONAL RELATIONS (**)            |           |
| PSCI 2310   | INTRODUCTION TO POLITICAL THOUGHT (**)                  |           |

|   |  |               |
|---|--|---------------|
| PSCI 2500   | INTRODUCTION TO COMPARATIVE POLITICS (**)  |               |
| PSCI 4950   | SENIOR ASSESSMENT IN POLITICAL SCIENCE (*) |               |
| <b>Select any seven 3-credit hour courses (6 of the courses must be 3000 - 4000 level)</b>  |  | <b>21</b>     |
| Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of political science courses must be taken at the 3000 - 4000 levels. |  |               |
| <b>College Breadth (choose one option)</b>  |  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours   |  |               |
| Option 2: Additional General Education Requirements - 18+ hours   |  |               |
| Additional quantitative literacy - 3 hours  |  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours  |  |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |  |               |
| HIST 1000 and HIST 1010 - 6 hours   |  |               |
| Additional Natural Science with or without Lab - 3-5 hours  |  |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)   |  |               |
| <b>Bachelor of Arts Language Requirement</b>  |  | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120   |  |               |
| <b>ELECTIVES</b>  |  |               |
| Elective hours as required to reach a total of 120 hours  |  |               |

## Political Science, Bachelor of Arts Concentrations

- Foreign and National Security Affairs (p. 289)
- Government Affairs and Civic Engagement (p. 290)
- Law and the Courts (p. 291)
- Political Thought (p. 292)
- Race, Ethnicity and Gender Politics (p. 293)

## Political Science Bachelor of Arts Four Year Plan

| <b>Freshman</b>   |  |                |
|---|--|----------------|
| <b>Fall</b>   |  | <b>Credits</b> |
| ENGL 1150   | ENGLISH COMPOSITION I  | 3              |
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT   | 3              |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH SUPPORT | 3-4            |
| World Language 1110   |  | 5              |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |                |
| <b>Credits</b>  |  | <b>14-15</b>   |

| <b>Spring</b>  |  |           |
|--|--|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3         |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| PSCI 2210  | INTRODUCTION TO INTERNATIONAL RELATIONS              | 3         |
| World Language 1120  |  | 5         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.                 |  |           |
| <b>Credits</b>   |  | <b>14</b> |
| <b>Sophomore</b>   |  |           |
| <b>Fall</b>  |  |           |
| PSCI 2000  | INTRODUCTION TO POLITICAL INQUIRY AND WRITING        | 3         |
| PSCI 2310  | INTRODUCTION TO POLITICAL THOUGHT (*)                | 3         |
| World Language 2110  |  | 3         |
| General Education Course or Elective   |  | 4         |
| General Education Course or Elective   |  | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.   |  |           |
| <b>Credits</b>   |  | <b>16</b> |
| <b>Spring</b>  |  |           |
| PSCI 2500  | INTRODUCTION TO COMPARATIVE POLITICS                 | 3         |
| PSCI 3000+ Elective  |  | 3         |
| World Language 2120  |  | 3         |
| General Education Course or Elective   |  | 3         |
| General Education Course or Elective   |  | 3         |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.                                     |  |           |
| <b>Credits</b>   |  | <b>15</b> |
| <b>Junior</b>  |  |           |
| <b>Fall</b>  |  |           |
| PSCI 3000+   |  | 3         |
| PSCI 3000+   |  | 3         |
| Elective   |  | 3         |
| Elective   |  | 3         |
| Elective   |  | 3         |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |           |
| <b>Credits</b>   |  | <b>15</b> |
| <b>Spring</b>  |  |           |
| PSCI 3000+   |  | 3         |
| PSCI 3000+   |  | 3         |

|  |                |
|--|----------------|
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 1              |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |                |
| <b>Credits</b>   | <b>16</b>      |
| <b>Senior</b>  |                |
| <b>Fall</b>  |                |
| PSCI 3000+   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.     |                |
| <b>Credits</b>   | <b>15</b>      |
| <b>Spring</b>  |                |
| PSCI 4950  | 0              |
| SENIOR ASSESSMENT IN POLITICAL SCIENCE   |                |
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Elective   | 3              |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.   |                |
| <b>Credits</b>   | <b>15</b>      |
| <b>Total Credits</b>   | <b>120-121</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Foreign and National Security Affairs

### Political Science, Bachelor of Arts with a Concentration in Foreign and National Security Affairs Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Political Science with a Concentration in Foreign and National Security Affairs - 36 Hours Required</b>  |   |           |
| At least 18 hours of political science courses must be taken at the 3000 - 4000 levels.   |   |           |
| <b>Required Courses</b>   |   | <b>15</b> |

|   |   |
|---|---|
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)                   |
| PSCI 2000   | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^)                   |
| PSCI 2210   | INTRODUCTION TO INTERNATIONAL RELATIONS (**)                        |
| PSCI 2310   | INTRODUCTION TO POLITICAL THOUGHT (**)                              |
| PSCI 2500   | INTRODUCTION TO COMPARATIVE POLITICS (**)                           |
| PSCI 4950   | SENIOR ASSESSMENT IN POLITICAL SCIENCE (^)                          |
| <b>Select four of the following 3-credit hour courses</b> |   |
| PSCI/BLST 2130  | AFRICAN POLITICS (**)   |
| PSCI 3220   | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING (^)                     |
| PSCI/WGST 3230  | GENDER AND GLOBAL POLITICS (** ^)                                   |
| PSCI 3240   | THE POLITICS AND PRACTICE OF HUMAN RIGHTS (^)                       |
| PSCI 3260   | UNITED STATES FOREIGN POLICY (^)                                    |
| PSCI 3500   | EUROPEAN POLITICS (** ^)  |
| PSCI 3580   | GOVERNMENT AND POLITICS OF RUSSIA AND THE POST-SOVIET STATES (** ^) |
| PSCI 3640   | GOVERNMENT AND POLITICS OF CHINA AND EAST ASIA (** ^)               |
| PSCI/LLS 3680   | GOVERNMENT AND POLITICS OF LATIN AMERICA (** ^)                     |
| PSCI 3700   | GOVERNMENT AND POLITICS OF THE MIDDLE EAST (** ^)                   |
| PSCI 4200   | INTERNATIONAL RELATIONS OF EAST ASIA (** ^)                         |
| PSCI 4210   | INTERNATIONAL RELATIONS OF THE MIDDLE EAST (** ^)                   |
| PSCI 4240   | INTERNATIONAL CONFLICT RESOLUTION (^)                               |
| PSCI 4250   | INTELLIGENCE AND NATIONAL SECURITY (^)                              |
| PSCI 4260   | INTERNATIONAL LAW (^)   |
| PSCI/ENVN 4270  | GLOBAL ENVIRONMENTAL POLITICS (^)                                   |
| PSCI/LLS 4280   | INTERNATIONAL RELATIONS OF LATIN AMERICA (^)                        |
| PSCI 4290   | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY (^)                      |
| PSCI 4350   | DEMOCRACY (^)   |
| PSCI 4360   | AUTHORITARIAN REGIMES (^)   |
| PSCI 4500   | GOVERNMENT AND POLITICS OF GREAT BRITAIN (^)                        |
| PSCI 4520   | POLITICS OF FRANCE (** ^)   |
| PSCI 4550   | POLITICAL VIOLENCE, INSURGENCY, AND TERRORISM (^)                   |
| PSCI 4620   | ISLAM AND POLITICS (** ^)   |
| PSCI 4710   | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION                |

**Select three additional 3-credit PSCI courses, ensuring the minimum number of 18 required 3000-4000 level credits within the major will be met.**

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement** **16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Government Affairs and Civic Engagement

### Political Science, Bachelor of Arts with a Concentration in Government Affairs and Civic Engagement Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

#### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

#### Fundamental Skills

##### Writing – 6 hrs.

|           |                       |
|-----------|-----------------------|
| ENGL 1150 | ENGLISH COMPOSITION I |
|-----------|-----------------------|

|           |   |
|-----------|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |
|-----------|---|

##### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

##### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

##### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
|-----------|---------------------------------|

|           |                       |
|-----------|-----------------------|
| STAT 1530 | ELEMENTARY STATISTICS |
|-----------|-----------------------|

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility

**6**



Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Political Science with a Concentration in Government Affairs and Civic Engagement - 36 Hours Required**

At least 18 hours of political science courses must be taken at the 3000 - 4000 levels.

**Required Courses** **15**

|           |   |
|-----------|---|
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| PSCI 2000 | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^) |
| PSCI 2210 | INTRODUCTION TO INTERNATIONAL RELATIONS (**)      |
| PSCI 2310 | INTRODUCTION TO POLITICAL THOUGHT (**)            |
| PSCI 2500 | INTRODUCTION TO COMPARATIVE POLITICS (**)         |
| PSCI 4950 | SENIOR ASSESSMENT IN POLITICAL SCIENCE (^)        |

**Select four of the following 3-credit hour courses** **12**

|                |  |
|----------------|--|
| PSCI 2110      | INTRODUCTION TO PUBLIC POLICY (**)       |
| PSCI 2120      | INTRODUCTION TO LEADERSHIP (**)          |
| PSCI 3010      | URBAN POLITICS (^)                       |
| PSCI 3040      | GOVERNMENT AND POLITICS OF NEBRASKA (^)  |
| PSCI 3050      | STATE GOVERNMENT AND POLITICS (^)        |
| PSCI 3160      | POLITICAL PARTIES (^)                    |
| PSCI 3170      | INTEREST GROUPS (^)                      |
| PSCI 3180      | CAMPAIGNS AND ELECTIONS (^)              |
| PSCI 4030      | THE PRESIDENCY (^)                       |
| PSCI 4040      | CONGRESS AND THE LEGISLATIVE PROCESS (^) |
| PSCI 4050      | THE JUDICIAL PROCESS (^)                 |
| PSCI/PSYC 4110 | POLITICAL PSYCHOLOGY (^)                 |
| PSCI 4120      | PUBLIC OPINION AND POLLING (^)           |
| PSCI 4910      | POLITICAL SCIENCE INTERNSHIP (^)         |

**Select any additional three 3-credit hour courses** **9**

Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of political science courses must be taken at the 3000 - 4000 levels.

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement** **16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**Law and the Courts****Political Science, Bachelor of Arts with a Concentration in Law and the Courts Requirements****Code** **Title** **Credits****GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills** **15****Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility** **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Political Science with a Concentration in Law and the Courts - 36 Hours Required**

At least 18 hours of political science courses must be taken at the 3000 - 4000 levels.

**Required Courses** **15**

PSCI 1100 INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (\*\*)

PSCI 2000 INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^)

PSCI 2210 INTRODUCTION TO INTERNATIONAL RELATIONS (\*\*)



|   |  |
|---|--|
| PSCI 2310   | INTRODUCTION TO POLITICAL THOUGHT (**)       |
| PSCI 2500   | INTRODUCTION TO COMPARATIVE POLITICS (**)    |
| PSCI 4950   | SENIOR ASSESSMENT IN POLITICAL SCIENCE (^)   |
| <b>Select four of the following 3-credit hour courses</b> |  |
| PSCI 2180   | INTRODUCTION TO LAW (**)                     |
| PSCI/BLST 3410  | LAW AND THE BLACK COMMUNITY (** ^)           |
| PSCI/LLS 3510   | IMMIGRATION LAW AND LATINOS                  |
| PSCI 4050   | THE JUDICIAL PROCESS (^)                     |
| PSCI 4140   | CONSTITUTIONAL LAW: CIVIL RIGHTS (^)         |
| PSCI 4150   | LAW AND THE COURTS: MOCK TRIAL (^)           |
| PSCI 4160   | LAW AND THE COURTS: MOCK TRIAL PRACTICUM (^) |
| PSCI 4170   | CONSTITUTIONAL LAW: FOUNDATIONS (^)          |
| PSCI 4180   | CONSTITUTIONAL LAW: THE FEDERAL SYSTEM (^)   |
| PSCI 4190   | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)      |
| PSCI 4260   | INTERNATIONAL LAW (^)                        |
| PSCI 4910   | POLITICAL SCIENCE INTERNSHIP (^)             |

**Select any additional three 3-credit hour courses** **9**

Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of political science courses must be taken at the 3000 - 4000 levels.

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement** **16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Political Thought

## Political Science, Bachelor of Arts with a Concentration in Political Thought Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of "C-" required                                  |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |

### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### Breadth of Knowledge **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### Individual and Social Responsibility **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### Political Science with a Concentration in Political Thought - 36 Hours Required

At least 18 hours of political science courses must be taken at the 3000 - 4000 levels.

### Required Courses **15**

PSCI 1100 INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (\*\*)

PSCI 2000 INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^)

PSCI 2210 INTRODUCTION TO INTERNATIONAL RELATIONS (\*\*)

PSCI 2310 INTRODUCTION TO POLITICAL THOUGHT (\*\*)

PSCI 2500 INTRODUCTION TO COMPARATIVE POLITICS (\*\*)

PSCI 4950 SENIOR ASSESSMENT IN POLITICAL SCIENCE (^)

### Select four of the following 3-credit hour courses **12**

PSCI 3340 AMERICAN POLITICAL THOUGHT (^)

PSCI 4310 CLASSICAL POLITICAL THOUGHT (^)

PSCI 4320 EARLY MODERN POLITICAL THOUGHT (^)

PSCI 4330 LATE MODERN POLITICAL THOUGHT (^)

PSCI 4340 CONTEMPORARY POLITICAL THOUGHT (^)

### Select any additional three 3-credit hour courses **9**

Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of political science courses must be taken at the 3000 - 4000 levels.

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab- 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Race, Ethnicity and Gender Politics

### Political Science, Bachelor of Arts with a Concentration in Race, Ethnicity and Gender Politics Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills 15**

**Writing – 6 hrs.**

|           |                       |
|-----------|-----------------------|
| ENGL 1150 | ENGLISH COMPOSITION I |
|-----------|-----------------------|

|           |   |
|-----------|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |
|-----------|---|

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
|-----------|---------------------------------|

|           |                       |
|-----------|-----------------------|
| STAT 1530 | ELEMENTARY STATISTICS |
|-----------|-----------------------|

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Political Science with a Concentration in Race, Ethnicity and Gender Politics - 36 Hours Required**

At least 18 hours of political science courses must be taken at the 3000 - 4000 levels.

**Required Courses 15**

|           |   |
|-----------|---|
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| PSCI 2000 | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^) |
| PSCI 2210 | INTRODUCTION TO INTERNATIONAL RELATIONS (**)      |
| PSCI 2310 | INTRODUCTION TO POLITICAL THOUGHT (**)            |
| PSCI 2500 | INTRODUCTION TO COMPARATIVE POLITICS (**)         |
| PSCI 4950 | SENIOR ASSESSMENT IN POLITICAL SCIENCE (^)        |

**Select four of the following 3-credit hour courses 12**

|                |   |
|----------------|---|
| PSCI/BLST 2130 | AFRICAN POLITICS (**)                                     |
| PSCI/WGST 3100 | LGBTQ+ POLITICS (** ^)                                    |
| PSCI/WGST 3120 | THE AFRICAN AMERICAN EXPERIENCE IN POLITICS (** ^)        |
| PSCI/WGST 3130 | WOMEN AND POLITICS (** ^)                                 |
| PSCI/LLS 3140  | LATINO/-A POLITICS (** ^)                                 |
| PSCI 3150      | ASIAN PACIFIC AMERICANS AND THE NEW MINORITY POLITICS (^) |
| PSCI/WGST 3230 | GENDER AND GLOBAL POLITICS (** ^)                         |
| PSCI/BLST 3410 | LAW AND THE BLACK COMMUNITY (** ^)                        |
| PSCI/LLS 3510  | IMMIGRATION LAW AND LATINOS                               |

**Select any additional three 3-credit hour courses 9**

Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of political science courses must be taken at the 3000 - 4000 levels

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

|  |
|--|
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120              |
| <b>ELECTIVES</b>   |
| Elective hours as required to reach a total of 120 hours |

# Political Science, Bachelor of Science

## Political Science, Bachelor of Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Political Science BS - 36 Hours Required</b>   |   |           |
| At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.   |   |           |
| <b>Required Courses</b>   |   | <b>18</b> |
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)       |           |
| PSCI 2000   | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^)       |           |
| PSCI 2210   | INTRODUCTION TO INTERNATIONAL RELATIONS (**)            |           |

|   |   |                |
|---|---|----------------|
| PSCI 2310   | INTRODUCTION TO POLITICAL THOUGHT (**)                  |                |
| PSCI 2500   | INTRODUCTION TO COMPARATIVE POLITICS (**)               |                |
| PSCI 3000   | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^)          |                |
| PSCI 4950   | SENIOR ASSESSMENT IN POLITICAL SCIENCE                  |                |
| <b>Select any additional six 3-credit hour courses</b>  |   | <b>18</b>      |
| Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.   |   |                |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b>  |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours   |   |                |
| Option 2: Additional General Education Requirements - 18+ hours   |   |                |
| Additional quantitative literacy - 3 hours  |   |                |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours  |   |                |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |   |                |
| HIST 1000 and HIST 1010 - 6 hours   |   |                |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours  |   |                |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)   |   |                |
| <b>Bachelor of Science Cognate Courses</b>  |   | <b>15</b>      |
| Select a minimum of 15 credit hours of cognate course work in other disciplines.  |   |                |
| <b>ELECTIVES</b>  |   |                |
| Elective hours as required to reach a total of 120 hours  |   |                |
| <b>Political Science, Bachelor of Science Concentrations</b>  |   |                |
| <ul style="list-style-type: none"><li>Foreign and National Security Affairs (p. 296)</li><li>Government Affairs and Civic Engagement (p. 297)</li><li>Law and the Courts (p. 298)</li><li>Political Thought (p. 299)</li><li>Race, Ethnicity and Gender Politics (p. 299)</li></ul> |   |                |
| <b>Political Science, Bachelor of Science Four Year Plan</b>  |   |                |
| <b>Freshman</b>   |   |                |
| <b>Fall</b>   |   | <b>Credits</b> |
| ENGL 1150   | ENGLISH COMPOSITION I                                   | 3              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING | 3-4            |
| or MATH 1130  | or QUANTITATIVE LITERACY                                |                |
| or MATH 1140  | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS  |                |
| or MATH 1300  | or COLLEGE ALGEBRA WITH SUPPORT                         |                |
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT            | 3              |
| PSCI 2210   | INTRODUCTION TO INTERNATIONAL RELATIONS                 | 3              |
| General Education Course or Elective  |   | 3              |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits 15-16**

**Spring**

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| CMST 1110                            | PUBLIC SPEAKING FUNDS                     | 3 |
| PSCI 2310                            | INTRODUCTION TO POLITICAL THOUGHT         | 3 |
| General Education Course or Elective |   | 4 |
| General Education Course or Elective |   | 3 |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits 16**

**Sophomore**

**Fall**

|                                      |   |   |
|--------------------------------------|---|---|
| PSCI 2000                            | INTRODUCTION TO POLITICAL INQUIRY AND WRITING | 3 |
| PSCI 2500                            | INTRODUCTION TO COMPARATIVE POLITICS          | 3 |
| General Education Course or Elective |   | 3 |
| General Education Course or Elective |   | 3 |
| Elective                             |   | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|                      |  |   |
|----------------------|--|---|
| PSCI 3000            | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE | 3 |
| PSCI-3000/4000 Level |  | 3 |
| PSCI-1000-4000 Level |  | 3 |
| Cognate Course       |  | 3 |
| Elective             |  | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

**Junior**

**Fall**

|                      |  |   |
|----------------------|--|---|
| PSCI-3000/4000 Level |  | 3 |
| PSCI-3000/4000 Level |  | 3 |
| Cognate Course       |  | 3 |
| Elective             |  | 3 |
| Elective             |  | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits 15**

**Spring**

|                      |  |     |
|----------------------|--|-----|
| PSCI-3000/4000 Level |  | 3   |
| Cognate Course       |  | 3   |
| Elective             |  | 3-4 |
| Elective             |  | 3   |
| Elective             |  | 3   |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15-16**

**Senior**

**Fall**

|                      |  |   |
|----------------------|--|---|
| PSCI-3000/4000 Level |  | 3 |
| Cognate Course       |  | 3 |
| Elective             |  | 3 |
| Elective             |  | 3 |
| Elective             |  | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits 15**

**Spring**

|                |  |     |
|----------------|--|-----|
| PSCI 4950      | SENIOR ASSESSMENT IN POLITICAL SCIENCE | 0   |
| Cognate Course |  | 3   |
| Elective       |  | 3   |
| Elective       |  | 3   |
| Elective       |  | 3   |
| Elective       |  | 2-3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits 14-15**

**Total Credits 120-123**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for

the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Foreign and National Security Affairs

### Political Science, Bachelor of Science with a Concentration in Foreign and National Security Affairs Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Political Science with a Concentration in Foreign and National Security Affairs - 36 Hours Required

At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.

| Required Courses  |   | 18        |
|---|---|-----------|
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)                   |           |
| PSCI 2000   | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^)                   |           |
| PSCI 2210   | INTRODUCTION TO INTERNATIONAL RELATIONS (**)                        |           |
| PSCI 2310   | INTRODUCTION TO POLITICAL THOUGHT (**)                              |           |
| PSCI 2500   | INTRODUCTION TO COMPARATIVE POLITICS (**)                           |           |
| PSCI 3000   | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^)                      |           |
| PSCI 4950   | SENIOR ASSESSMENT IN POLITICAL SCIENCE (^)                          |           |
| <b>Select any four of the following 3-credit hour courses</b> |   | <b>12</b> |
| PSCI/BLST 2130  | AFRICAN POLITICS (**)   |           |
| PSCI 3220   | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING (^)                     |           |
| PSCI/WGST 3230  | GENDER AND GLOBAL POLITICS (** ^)                                   |           |
| PSCI 3240   | THE POLITICS AND PRACTICE OF HUMAN RIGHTS (^)                       |           |
| PSCI 3260   | UNITED STATES FOREIGN POLICY (^)                                    |           |
| PSCI 3500   | EUROPEAN POLITICS (** ^)  |           |
| PSCI 3580   | GOVERNMENT AND POLITICS OF RUSSIA AND THE POST-SOVIET STATES (** ^) |           |
| PSCI 3640   | GOVERNMENT AND POLITICS OF CHINA AND EAST ASIA (** ^)               |           |
| PSCI/LLS 3680   | GOVERNMENT AND POLITICS OF LATIN AMERICA (** ^)                     |           |
| PSCI 3700   | GOVERNMENT AND POLITICS OF THE MIDDLE EAST (** ^)                   |           |
| PSCI 4200   | INTERNATIONAL RELATIONS OF EAST ASIA (** ^)                         |           |
| PSCI 4210   | INTERNATIONAL RELATIONS OF THE MIDDLE EAST (** ^)                   |           |
| PSCI 4240   | INTERNATIONAL CONFLICT RESOLUTION (^)                               |           |
| PSCI 4250   | INTELLIGENCE AND NATIONAL SECURITY (^)                              |           |
| PSCI 4260   | INTERNATIONAL LAW (^)   |           |
| PSCI/ENVN 4270  | GLOBAL ENVIRONMENTAL POLITICS (^)                                   |           |
| PSCI/LLS 4280   | INTERNATIONAL RELATIONS OF LATIN AMERICA (** ^)                     |           |
| PSCI 4290   | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY (^)                      |           |
| PSCI 4350   | DEMOCRACY (^)   |           |
| PSCI 4360   | AUTHORITARIAN REGIMES (^)   |           |
| PSCI 4500   | GOVERNMENT AND POLITICS OF GREAT BRITAIN (^)                        |           |

|           |   |
|-----------|---|
| PSCI 4520 | POLITICS OF FRANCE (** ^)                               |
| PSCI 4550 | POLITICAL VIOLENCE, INSURGENCY,<br>AND TERRORISM (^)    |
| PSCI 4620 | ISLAM AND POLITICS (** ^)                               |
| PSCI 4710 | COMPARATIVE INTERNATIONAL<br>DEVELOPMENT AND INNOVATION |

**Select any additional two 3-credit hour courses** **6**

Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |
| HIST 1000 and HIST 1010 - 6 hours                                    |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Courses** **15**

Select a minimum of 15 credit hours of cognate course work in other disciplines.

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Government Affairs and Civic Engagement

### Political Science, Bachelor of Science with a Concentration in Government Affairs and Civic Engagement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility** **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS

^Course requires pre-requisite(s)

#### Political Science with a Concentration in Government Affairs and Civic Engagement - 36 Hours Required

At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.

**Required Courses** **18**

|           |   |
|-----------|---|
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| PSCI 2000 | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^) |
| PSCI 2210 | INTRODUCTION TO INTERNATIONAL RELATIONS (**)      |
| PSCI 2310 | INTRODUCTION TO POLITICAL THOUGHT (**)            |
| PSCI 2500 | INTRODUCTION TO COMPARATIVE POLITICS (**)         |
| PSCI 3000 | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^)    |
| PSCI 4950 | SENIOR ASSESSMENT IN POLITICAL SCIENCE (^)        |

**Select any four of the following 3-credit hour courses** **12**

|                |  |
|----------------|--|
| PSCI 2110      | INTRODUCTION TO PUBLIC POLICY (**)       |
| PSCI 2120      | INTRODUCTION TO LEADERSHIP (**)          |
| PSCI 3010      | URBAN POLITICS (^)                       |
| PSCI 3040      | GOVERNMENT AND POLITICS OF NEBRASKA (^)  |
| PSCI 3050      | STATE GOVERNMENT AND POLITICS (^)        |
| PSCI 3160      | POLITICAL PARTIES (^)                    |
| PSCI 3170      | INTEREST GROUPS (^)                      |
| PSCI 3180      | CAMPAIGNS AND ELECTIONS (^)              |
| PSCI 4030      | THE PRESIDENCY (^)                       |
| PSCI 4040      | CONGRESS AND THE LEGISLATIVE PROCESS (^) |
| PSCI 4050      | THE JUDICIAL PROCESS (^)                 |
| PSCI/PSYC 4110 | POLITICAL PSYCHOLOGY (^)                 |
| PSCI 4120      | PUBLIC OPINION AND POLLING (^)           |
| PSCI 4910      | POLITICAL SCIENCE INTERNSHIP (^)         |

**Select any two additional 3-credit hour courses** **6**

Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.



**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Courses 15**

Select a minimum of 15 credit hours of cognate course work in other disciplines

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

# Law and the Courts

## Political Science, Bachelor of Science with a Concentration in Law and the Courts Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills 15****Writing – 6 hrs.**

|           |                       |
|-----------|-----------------------|
| ENGL 1150 | ENGLISH COMPOSITION I |
|-----------|-----------------------|

|           |   |
|-----------|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |
|-----------|---|

**Oral Communication – 3 hrs.**

|           |                       |
|-----------|-----------------------|
| CMST 1110 | PUBLIC SPEAKING FUNDS |
|-----------|-----------------------|

|              |                          |
|--------------|--------------------------|
| or CMST 2120 | ARGUMENTATION AND DEBATE |
|--------------|--------------------------|

**Quantitative Literacy – 3 hrs.**

|           |   |
|-----------|---|
| MATH 1120 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
|-----------|---|

|              |                       |
|--------------|-----------------------|
| or MATH 1130 | QUANTITATIVE LITERACY |
|--------------|-----------------------|

|              |   |
|--------------|---|
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
|--------------|---|

|              |                              |
|--------------|------------------------------|
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT |
|--------------|------------------------------|

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
|-----------|---------------------------------|

|           |                       |
|-----------|-----------------------|
| STAT 1530 | ELEMENTARY STATISTICS |
|-----------|-----------------------|

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Political Science with a Concentration in Law and the Courts - 36 Hours Required**

At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.

**Required Courses 18**

|           |   |
|-----------|---|
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
|-----------|---|

|           |   |
|-----------|---|
| PSCI 2000 | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^) |
|-----------|---|

|           |  |
|-----------|--|
| PSCI 2210 | INTRODUCTION TO INTERNATIONAL RELATIONS (**) |
|-----------|--|

|           |  |
|-----------|--|
| PSCI 2310 | INTRODUCTION TO POLITICAL THOUGHT (**) |
|-----------|--|

|           |   |
|-----------|---|
| PSCI 2500 | INTRODUCTION TO COMPARATIVE POLITICS (**) |
|-----------|---|

|           |  |
|-----------|--|
| PSCI 3000 | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^) |
|-----------|--|

|           |  |
|-----------|--|
| PSCI 4950 | SENIOR ASSESSMENT IN POLITICAL SCIENCE (^) |
|-----------|--|

**Select any four of the following 3-credit hour courses 12**

|           |                          |
|-----------|--------------------------|
| PSCI 2180 | INTRODUCTION TO LAW (**) |
|-----------|--------------------------|

|                |                                    |
|----------------|------------------------------------|
| PSCI/BLST 3410 | LAW AND THE BLACK COMMUNITY (** ^) |
|----------------|------------------------------------|

|               |                             |
|---------------|-----------------------------|
| PSCI/LLS 3510 | IMMIGRATION LAW AND LATINOS |
|---------------|-----------------------------|

|           |                          |
|-----------|--------------------------|
| PSCI 4050 | THE JUDICIAL PROCESS (^) |
|-----------|--------------------------|

|           |                                      |
|-----------|--------------------------------------|
| PSCI 4140 | CONSTITUTIONAL LAW: CIVIL RIGHTS (^) |
|-----------|--------------------------------------|

|           |                                    |
|-----------|------------------------------------|
| PSCI 4150 | LAW AND THE COURTS: MOCK TRIAL (^) |
|-----------|------------------------------------|

|           |  |
|-----------|--|
| PSCI 4160 | LAW AND THE COURTS: MOCK TRIAL PRACTICUM (^) |
|-----------|--|

|           |                                     |
|-----------|-------------------------------------|
| PSCI 4170 | CONSTITUTIONAL LAW: FOUNDATIONS (^) |
|-----------|-------------------------------------|

|           |  |
|-----------|--|
| PSCI 4180 | CONSTITUTIONAL LAW: THE FEDERAL SYSTEM (^) |
|-----------|--|

|           |   |
|-----------|---|
| PSCI 4190 | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^) |
|-----------|---|

|           |                       |
|-----------|-----------------------|
| PSCI 4260 | INTERNATIONAL LAW (^) |
|-----------|-----------------------|

|           |                                  |
|-----------|----------------------------------|
| PSCI 4910 | POLITICAL SCIENCE INTERNSHIP (^) |
|-----------|----------------------------------|

**Select any two additional 3-credit hour courses 6**

Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

### **Bachelor of Science Cognate Courses 15**

Select a minimum of 15 credit hours of cognate course work in other disciplines.

### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

## **Political Thought**

### **Political Science, Bachelor of Science with a Concentration in Political Thought Requirements**

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

#### **GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

#### **Fundamental Skills 15**

##### **Writing – 6 hrs.**

|           |                       |
|-----------|-----------------------|
| ENGL 1150 | ENGLISH COMPOSITION I |
|-----------|-----------------------|

|           |   |
|-----------|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |
|-----------|---|

##### **Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

##### **Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

##### **Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
|-----------|---------------------------------|

|           |                       |
|-----------|-----------------------|
| STAT 1530 | ELEMENTARY STATISTICS |
|-----------|-----------------------|

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### **MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### **Political Science with a Concentration in Political Thought - 36 Hours Required**

At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.

#### **Required Courses 18**

|           |   |
|-----------|---|
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
|-----------|---|

|           |   |
|-----------|---|
| PSCI 2000 | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^) |
|-----------|---|

|           |  |
|-----------|--|
| PSCI 2210 | INTRODUCTION TO INTERNATIONAL RELATIONS (**) |
|-----------|--|

|           |  |
|-----------|--|
| PSCI 2310 | INTRODUCTION TO POLITICAL THOUGHT (**) |
|-----------|--|

|           |   |
|-----------|---|
| PSCI 2500 | INTRODUCTION TO COMPARATIVE POLITICS (**) |
|-----------|---|

|           |  |
|-----------|--|
| PSCI 3000 | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (^) |
|-----------|--|

|           |  |
|-----------|--|
| PSCI 4950 | SENIOR ASSESSMENT IN POLITICAL SCIENCE (^) |
|-----------|--|

#### **Select any four of the following 3-credit hour courses 12**

|           |                                |
|-----------|--------------------------------|
| PSCI 3340 | AMERICAN POLITICAL THOUGHT (^) |
|-----------|--------------------------------|

|           |                                 |
|-----------|---------------------------------|
| PSCI 4310 | CLASSICAL POLITICAL THOUGHT (^) |
|-----------|---------------------------------|

|           |                                    |
|-----------|------------------------------------|
| PSCI 4320 | EARLY MODERN POLITICAL THOUGHT (^) |
|-----------|------------------------------------|

|           |                                   |
|-----------|-----------------------------------|
| PSCI 4330 | LATE MODERN POLITICAL THOUGHT (^) |
|-----------|-----------------------------------|

|           |                                    |
|-----------|------------------------------------|
| PSCI 4340 | CONTEMPORARY POLITICAL THOUGHT (^) |
|-----------|------------------------------------|

#### **Select any two additional 3-credit hour courses - 6**

Remaining hours in political science shall be elected by students in accordance with their interests. At least 18 hours of coursework within the political science major must be taken at the 3000 - 4000 levels.

#### **College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### **Bachelor of Science Cognate Courses 15**

Select a minimum of 15 credit hours of cognate course work in other disciplines.

### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

## **Race, Ethnicity and Gender Politics**

### **Political Science, Bachelor of Science with a Concentration in Race, Ethnicity and Gender Politics Requirements**

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

#### **GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills 15****Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND  
INFORMATION LITERACY**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE  
PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an  
approved data literacy course, or any approved natural or  
social science general education course.**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Political Science with a Concentration in Race, Ethnicity  
and Gender Politics - 36 Hours Required**At least 18 hours of coursework within the political science  
major must be taken at the 3000 - 4000 levels.**Required Courses 18**PSCI 1100 INTRODUCTION TO AMERICAN  
NATIONAL GOVERNMENT (\*\*)PSCI 2000 INTRODUCTION TO POLITICAL INQUIRY  
AND WRITING (^)PSCI 2210 INTRODUCTION TO INTERNATIONAL  
RELATIONS (\*\*)PSCI 2310 INTRODUCTION TO POLITICAL  
THOUGHT (\*\*)PSCI 2500 INTRODUCTION TO COMPARATIVE  
POLITICS (\*\*)PSCI 3000 QUANTITATIVE ANALYSIS IN POLITICAL  
SCIENCE (^)PSCI 4950 SENIOR ASSESSMENT IN POLITICAL  
SCIENCE (^)**Select any four of the following 3-credit hour courses 12**

PSCI/BLST 2130 AFRICAN POLITICS (\*\*)

PSCI/WGST 3100 LGBTQ+ POLITICS (\*\* ^)

PSCI/BLST 3120 THE AFRICAN AMERICAN EXPERIENCE  
IN POLITICS (\*\* ^)

PSCI/WGST 3130 WOMEN AND POLITICS (\*\* ^)

PSCI 3140/  
WGST 3230 LATINO/-A POLITICS (\*\* ^)PSCI 3150 ASIAN PACIFIC AMERICANS AND THE  
NEW MINORITY POLITICS (^)

PSCI/WGST 3230 GENDER AND GLOBAL POLITICS (\*\* ^)

PSCI/BLST 3410 LAW AND THE BLACK COMMUNITY (\*\*  
^)

PSCI/LLS 3510 IMMIGRATION LAW AND LATINOS

**Select any two additional 3-credit hour courses 6**Remaining hours in political science shall be elected by  
students in accordance with their interests. At least 18 hours of  
coursework within the political science major must be taken at  
the 3000 - 4000 levels.**College Breadth (choose one option) 15-30+**Option 1: Complete any UNO minor or undergraduate  
certificate - 15+ hoursOption 2: Additional General Education Requirements - 18+  
hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3  
hoursAdditional Humanities Gen. Ed. from another Discipline - 3  
hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5  
hoursOption 3: CAS comprehensive major (50+ hours) OR any second  
UNO major (30+ hours)**Bachelor of Science Cognate Courses 15**Select a minimum of 15 credit hours of cognate course work in  
other disciplines.**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Political Science Minor

### Political Science, Minor Requirements

An undergraduate minor in political science may be earned by completing  
15 hours of political science, 12 of which must be at the 3000 to 4000 level.  
All of these courses must be completed with a grade of "C-" or better.The political science minor is offered on campus, entirely online, or a  
combination of the two.

## Leadership and Public Policy Minor

### Description

The leadership and public policy minor is designed to appeal to students  
in a wide variety of majors that desire to complement their primary field  
of study with practical knowledge that will enable them to serve as public  
leaders. The minor will direct students to think critically about the viable  
solutions needed to solve problems that require effective leadership for the  
public good. It will engage students in learning about leadership for the  
public good and effective citizenship.Students in the minor will learn the role of leadership in public policy.  
Specifically, they will learn how people in positions of both public  
responsibility (such as government officials) and private influence (such

as the heads of for-profit and non-profit organizations) act in the realm of public policy: how demands for changes to public policy are organized and communicated, how social problems are identified and policies to address them are developed, how such policies are formally enacted, how they are implemented, and how they are evaluated.

This minor will offer students a substantive qualification in public policy leadership and will give them a way to demonstrate a specific commitment in this area of expertise to potential employers and graduate programs. It will prepare students for work in public organizations, as well as private for-profit and non-profit organizations, involved in the policy-making process. It will also prepare them for graduate studies in fields such as political science, public administration, and law.

## Other Information

All coursework taken for the leadership and public policy minor must be completed with a grade of "C-" or better.

The leadership and public policy minor is intended for majors outside of political science. Should a political science major choose to also minor in leadership and public policy, minor requirements will not double-count within the political science major.

## Contact

Dr. Carson Holloway, Political Science Chairperson  
275 Arts & Sciences Hall  
402-554-2624  
cholloway@unomaha.edu

## Leadership and Public Policy, Minor Requirements

The minor in leadership and public policy requires a total of 15 credit hours. Students will be required to take the following courses:

| Code   | Title                                | Credits  |
|--|--------------------------------------|----------|
| <b>All of the following:</b>   |                                      | <b>6</b> |
| PSCI 2110  | INTRODUCTION TO PUBLIC POLICY        |          |
| PSCI 2120  | INTRODUCTION TO LEADERSHIP           |          |
| or PA 2000   | LEADERSHIP & ADMINISTRATION          |          |
| <b>Select three upper division courses in leadership or public policy from the following:</b> <sup>1</sup> |                                      | <b>9</b> |
| PSCI 3010  | URBAN POLITICS                       |          |
| PSCI 3040  | GOVERNMENT AND POLITICS OF NEBRASKA  |          |
| PSCI 3050  | STATE GOVERNMENT AND POLITICS        |          |
| BLST/PSCI 3410   | LAW AND THE BLACK COMMUNITY          |          |
| PSCI 4030  | THE PRESIDENCY                       |          |
| PSCI 4040  | CONGRESS AND THE LEGISLATIVE PROCESS |          |
| PSCI 4050  | THE JUDICIAL PROCESS                 |          |
| PA 3200  | PROGRAM PLANNING AND EVALUATION      |          |
| PA 4300  | SEMINAR IN PUBLIC POLICY             |          |
| PA 4390  | PUBLIC BUDGETING                     |          |

<sup>1</sup> Other appropriate upper-division courses may also be used with the permission of an advisor.

## Psychology

The Department of Psychology offers the Bachelor of Arts and the Bachelor of Science degrees. The psychology course requirements are identical in these two degree programs, emphasizing training and hands-on experience in the research process centered on a four-course sequence capped by a laboratory in one of six areas of psychology: learning, cognition, development, sensation and perception, behavioral neuroscience, or animal behavior. The B.A. and B.S. degree programs differ in additional course requirements, as described below. Both programs prepare the student for graduate study in psychology.

Psychology majors may declare a concentration in any one of the following eight areas: applied behavior analysis, cognitive science, developmental psychology, forensic psychology, industrial/organizational psychology, mental health, neuroscience and behavior, and school psychology. Each concentration is a minimum of 12 credit hours. A concentration is optional, and only one concentration may be declared.

## Other Information

All coursework taken for the psychology major or minor must be completed with a grade of "C-" or better.

For the psychology minor, 9 credits must be taken in residence at UNO.

One of the required non-psychology courses for the B.S. degree may be taken CR/NC.

### Neuroscience or Biology majors with Psychology double majors or minors:

**Neuroscience and Psychology Double Major:** Beyond the neuroscience fundamentals courses, students cannot use a 3000/4000 level course to count toward both majors. Students may overlap 3000/4000 level PSYC courses between the PSYC Neuroscience and Behavior Concentration and the Neuroscience major.

**Biology and Psychology Double Major:** For a double major in **Biology and Psychology**, beyond the required fundamentals courses, students may not use a 3000/4000 level course to count toward both programs.

**Neuroscience major and Psychology minor:** No upper-level (3000/4000 level) PSYC courses will be allowed to count toward both programs.

**Biology major and Psychology minor:** Aside from PSYC 3130, students may not use the same 3000/4000 level Biol/Psyc course toward the completion of both programs.

## Student Groups

Psi Chi - Local (<https://www.unomaha.edu/college-of-arts-and-sciences/psychology/student-opportunities/psi-chi.php>); National Honor Society in Psychology (<https://www.psichi.org/default.aspx>)  
Nu Rho Psi - National Honor Society in Neuroscience (<https://nurhopsi.org/>)

Psychology Student Interest Group - Canvas Page where students can learn about events, activities, meetings, or opportunities related to psychology happening on campus or in the Omaha community! Psychology students will automatically receive an invitation to join the canvas page near the start of the semester from the Canvas portal. Students can also request to be added to this group by submitting their email address here ([https://unomaha.az1.qualtrics.com/jfe/form/SV\\_1SUVaqjKEDZGIYd/](https://unomaha.az1.qualtrics.com/jfe/form/SV_1SUVaqjKEDZGIYd/)).

## Contact

347 Arts and Sciences Hall

402.554.2592

Website (<http://www.unomaha.edu/college-of-arts-and-sciences/psychology/>)

Degrees Offered

- Psychology, Bachelor of Arts (p. 302)
- Psychology, Bachelor of Science (p. 317)

Minors Offered

- Psychology Minor (p. 345)

As most people know, a primary focus in psychology is in the diagnosis and treatment of mental health issues. But that’s just one of many specialties within the field. In addition to Clinical and Counseling Psychology, other popular subdisciplines include Industrial-Organizational Psychology, School Psychology, Applied Behavior Analysis, Behavioral Neuroscience, Developmental Psychology, Social Psychology, and Cognitive Psychology. Because Psychology is so diverse in its focus and research, a Bachelor’s degree in Psychology prepares students for a wide variety of careers. This major helps students develop universally useful skills like communication, critical-thinking, an understanding of the scientific process, and a proficiency with statistics and data. A Bachelor’s degree in Psychology is also a great choice for those interested in pursuing a graduate degree in Psychology, Counseling, Law and Criminal Justice, Social Work, or Medicine and Health Sciences. So if you’re curious about why we do the things that we do and ready for a rewarding career, join us in Psychology.

Psychology majors who have completed a Bachelor’s degree often pursue careers in the following fields:

- Mental health services
- Social services
- Human resources
- Case management
- Physical health and wellness
- Crisis work
- Rehabilitation services
- Testing and assessment
- Business administration
- Research and data analysis
- Nonprofit and charitable organizations

Psychology, Bachelor of Arts

Psychology, Bachelor of Arts

Requirements

| Code   | Title                                     | Credits |
|--|---|---------|
| GENERAL EDUCATION REQUIREMENTS - 34 Hours Required |   |         |
| Minimum of “C-”required                            |   |         |
| Fundamental Skills                                 |   | 15      |
| Writing – 6 hrs.                                   |   |         |
| ENGL 1150  | ENGLISH COMPOSITION I                     |         |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY |         |
| Oral Communication – 3 hrs.                        |   |         |
| CMST 1110  | PUBLIC SPEAKING FUNDS                     |         |
| or CMST 2120                                       | ARGUMENTATION AND DEBATE                  |         |
| Quantitative Literacy – 3 hrs.                     |   |         |

|  |   |
|--|---|
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130   | QUANTITATIVE LITERACY                                   |
| or MATH 1140   | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                            |
| Data Literacy – 3 hrs.   |   |
| Select one from the following:   |   |
| STAT 1100  | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530  | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.          |   |
| Breadth of Knowledge   | 13  |
| Social Science – 3 hrs.  |   |
| Humanities – 3 hrs.  |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |
| Arts – 3 hrs.  |   |
| Individual and Social Responsibility   | 6   |
| Cultural Knowledge – 3 hrs.  |   |
| Civic Knowledge and Engagement – 3 hrs.  |   |
| MAJOR REQUIREMENTS   |   |
| **Course will satisfy UNO’s General Education requirement  |   |
| ^Course requires pre-requisite(s)  |   |
| Psychology Major - 38 Hours Required   |   |
| Required Coursework  | 17  |
| The first six courses should be taken early in the student’s degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes. |   |
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I (**)                       |
| PSYC 1020  | INTRODUCTION TO PSYCHOLOGY II (^)                       |
| PSYC 2000  | CAREER PATHS IN PSYCHOLOGY (^)                          |
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^)           |
| PSYC 3130  | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)              |
| or STAT 3000   | STATISTICAL METHODS I                                   |
| PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY (^)                      |
| PSYC 4890  | SENIOR ASSESSMENT IN PSYCHOLOGY (^)                     |
| Select four 3-credit (PSYC) Psychology courses from four of the five areas below   |   |
| 12   |   |
| Applied Psychology   |   |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)                              |
| PSYC 4020  | LEARNING (^)  |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)               |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)                           |
| PSYC 4560  | FORENSIC PSYCHOLOGY (^)                                 |
| PSYC 4630  | ORGANIZATIONAL PSYCHOLOGY (^)                           |
| PSYC 4640  | PERSONNEL PSYCHOLOGY (^)                                |
| Social/Personality/Developmental Psychology  |   |
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                                   |
| PSYC 3520  | CHILD PSYCHOLOGY (^)                                    |
| PSYC 3540  | ADOLESCENT PSYCHOLOGY (^)                               |
| PSYC 4450  | PERSONALITY THEORIES (^)                                |
| PSYC/GERO 4460   | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)           |



**Mental Health**

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

**Cognitive Neuroscience**

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)   |

**Additional Perspectives**

|                |   |
|----------------|---|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)                        |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)                     |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)           |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)                      |
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (** ^)            |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

**Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 level****3**

|                |   |
|----------------|---|
| PSYC 4024      | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074      | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414      | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544      | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |
| PSYC 4644      | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990      | SENIOR THESIS (^) <sup>2</sup>                                    |

**Select two 3-credit (PSYC) Psychology courses at the 3000-4000 Level****6****College Breadth (choose one option)****15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement****16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

- 1 Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.
- 2 Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Psychology, Bachelor of Arts Optional Concentrations

Psychology majors may declare a concentration in any one of the following seven areas. Each concentration is a minimum of 12 credit hours. A concentration is optional, and only one concentration may be declared. The concentration will be noted on the student's transcript.

- Applied Behavior Analysis (p. 305)
- Cognitive Science (p. 306)
- Developmental Psychology (p. 308)
- Forensic Psychology (p. 309)
- Industrial/Organizational Psychology (p. 311)
- Mental Health (p. 312)
- Neuroscience and Behavior (p. 314)
- School Psychology (p. 316)

## Psychology, Bachelor of Arts Four Year Plan

**Freshman**

| <b>Fall</b>               |  | <b>Credits</b> |
|---------------------------|--|----------------|
| ENGL 1150                 | ENGLISH COMPOSITION I  | 3              |
| MATH 1120<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>or COLLEGE ALGEBRA WITH SUPPORT | 3-4            |
| PSYC 1010                 | INTRODUCTION TO PSYCHOLOGY I   | 3              |
| World Language 1110       |  | 5              |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

**Credits****14-15****Spring**

|           |   |   |
|-----------|---|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| PSYC 1020 | INTRODUCTION TO PSYCHOLOGY II (*)         | 3 |
| PSYC 2000 | CAREER PATHS IN PSYCHOLOGY (**)           | 1 |



|  |  |   |
|--|--|---|
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (**) | 3 |
| World Language 1120  |  | 5 |
| *PSYC 1020: Recommended to take PSYC 2040 concurrently.  |  |   |
| **PSYC 2040: required prior to or concurrent with PSYC 3130. Recommended to take concurrently with PSYC 1020.  |  |   |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |  |   |

**Credits 15**

### Sophomore

|  |   |   |
|--|---|---|
| <b>Fall</b>  |   |   |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                  | 3 |
| PSYC 3130<br>or STAT 3000  | STATISTICS FOR THE BEHAVIORAL<br>SCIENCES<br>or STATISTICAL METHODS I | 3 |
| World Language 2110  |   | 3 |
| General Education Course or Elective   |   | 4 |
| General Education Course or Elective   |   | 3 |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |   |   |

**Credits 16**

|                                      |                                |   |
|--------------------------------------|--------------------------------|---|
| <b>Spring</b>                        |                                |   |
| PSYC 3140                            | RESEARCH METHODS IN PSYCHOLOGY | 4 |
| Psychology Distribution/Upper-Level  |                                | 3 |
| World Language 2120                  |                                | 3 |
| General Education Course or Elective |                                | 3 |
| General Education Course or Elective |                                | 3 |

**Credits 16**

### Junior

|  |  |   |
|--|--|---|
| <b>Fall</b>  |  |   |
| Psychology Distribution/Upper-Level  |  | 3 |
| Psychology Distribution/Upper-Level  |  | 3 |
| General Education Course or Elective   |  | 3 |
| Elective   |  | 3 |
| Elective   |  | 3 |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |   |

**Credits 15**

|                                      |  |   |
|--------------------------------------|--|---|
| <b>Spring</b>                        |  |   |
| Psychology Distribution/Upper-Level  |  | 3 |
| Psychology Distribution/Upper-Level  |  | 3 |
| General Education Course or Elective |  | 3 |
| Elective                             |  | 3 |
| Elective                             |  | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits 15**

### Senior

|   |                                     |   |
|---|-------------------------------------|---|
| <b>Fall</b>                               |                                     |   |
| PSYC 4890                                 | SENIOR ASSESSMENT IN PSYCHOLOGY (*) | 0 |
| Psychology Distribution/Upper-Level/LAB** |                                     | 3 |
| Elective                                  |                                     | 3 |
| Elective                                  |                                     | 3 |
| Elective                                  |                                     | 3 |
| Elective                                  |                                     | 3 |

\*Senior Assessment can be completed in either fall or spring semester of senior year.

\*\*An Advanced Psychology Lab will be required for the Psychology major. Students must have already taken a corresponding lecture, and all core major requirements prior to taking the lab. Students must work closely with their major advisor to plan effectively for this requirement and to discuss the best options for their interests and future plans.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 15**

|  |                                     |   |
|--|-------------------------------------|---|
| <b>Spring</b>                              |                                     |   |
| PSYC 4890                                  | SENIOR ASSESSMENT IN PSYCHOLOGY (*) | 0 |
| Psychology Distribution/Upper-Level/LAB ** |                                     | 3 |
| Elective                                   |                                     | 3 |
| Elective                                   |                                     | 3 |
| Elective                                   |                                     | 3 |
| Elective                                   |                                     | 2 |

\*Senior Assessment can be completed in either fall or spring semester of senior year.

\*\*An Advanced Psychology Lab will be required for the Psychology major. Students must have already taken a corresponding lecture, and all core major requirements prior to taking the lab. Students must work closely with their major advisor to plan effectively for this requirement and to discuss the best options for their interests and future plans.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits 14**

**Total Credits 120-121**

**Adding an optional concentration to the BA:** Students should work with their Psychology advisor(s) if they would like to add a concentration to this plan.

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Applied Behavior Analysis Psychology, Bachelor of Arts with a Concentration in Applied Behavior Analysis Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

|  |   |            |
|--|---|------------|
| <b>Breadth of Knowledge</b>  |   | <b>13</b>  |
| Social Science – 3 hrs.  |   |            |
| Humanities – 3 hrs.  |   |            |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |            |
| Arts – 3 hrs.  |   |            |
| <b>Individual and Social Responsibility</b>  |   | <b>6</b>   |
| Cultural Knowledge – 3 hrs.  |   |            |
| Civic Knowledge and Engagement – 3 hrs.  |   |            |
| <b>MAJOR REQUIREMENTS</b>  |   |            |
| **Course will satisfy UNO's General Education requirement  |   |            |
| ^Course requires pre-requisite(s)  |   |            |
| <b>Psychology Major with a Concentration in Applied Behavior Analysis - 38+ Hours Required</b>   |   | <b>23</b>  |
| <b>Required Coursework</b>   |   |            |
| The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.   |   |            |
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I (**)                                   |            |
| PSYC 1020  | INTRODUCTION TO PSYCHOLOGY II (^)                                   |            |
| PSYC 2000  | CAREER PATHS IN PSYCHOLOGY (^)                                      |            |
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY                           |            |
| PSYC 3130<br>or STAT 3000  | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)<br>STATISTICAL METHODS I |            |
| PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY (^)                                  |            |
| PSYC 4020  | LEARNING (^)  |            |
| PSYC 4570  | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)                             |            |
| PSYC 4890  | SENIOR ASSESSMENT IN PSYCHOLOGY (^)                                 |            |
| <b>Select two 3 or 4-credit (PSYC) Psychology courses from the following Applied Behavior Analysis classes</b>   |   | <b>6-7</b> |
| PSYC 3150  | SMALL-N RESEARCH METHODS (^)  |            |
| PSYC 4030  | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)                                 |            |
| PSYC 4350  | BASIC/EXPERIMENTAL BEHAVIOR ANALYSIS (^)                            |            |
| PSYC 4414  | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                         |            |
| PSYC 4810  | PRACTICE AND ETHICS IN BEHAVIOR ANALYSIS (^)                        |            |
| PSYC 4970  | PRACTICUM IN PSYCHOLOGY (^)   |            |
| <b>Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.</b> |   | <b>12</b>  |
| <b>Applied Psychology</b>  |   |            |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)  |            |
| PSYC 4020  | LEARNING (^)  |            |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)                           |            |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)                                       |            |
| PSYC 4560  | FORENSIC PSYCHOLOGY (^)   |            |
| PSYC 4630  | ORGANIZATIONAL PSYCHOLOGY (^)                                       |            |
| PSYC 4640  | PERSONNEL PSYCHOLOGY (^)  |            |
| <b>Social/Personality/Developmental Psychology</b>   |   |            |
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)   |            |

|                |   |
|----------------|---|
| PSYC 3520      | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540      | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4450      | PERSONALITY THEORIES (^)                      |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |

**Mental Health**

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

**Cognitive Neuroscience**

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)   |

**Additional Perspectives**

|                |   |
|----------------|---|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)                        |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)                     |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)                      |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)           |
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (** ^)            |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

**Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.** **3**

|                |   |
|----------------|---|
| PSYC 4024      | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074      | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414      | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544      | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |
| PSYC 4644      | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990      | SENIOR THESIS (^) <sup>2</sup>                                    |

**Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.** **6**

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |
| HIST 1000 and HIST 1010 - 6 hours                                    |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Cognitive Science

### Psychology, Bachelor of Arts with a Concentration in Cognitive Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following                             |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### **MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **Psychology Major with a Concentration in Cognitive Science - 38+ Hours Required**

#### **Required Coursework 20**

The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.

PSYC 1010 INTRODUCTION TO PSYCHOLOGY I (\*\*)

PSYC 1020 INTRODUCTION TO PSYCHOLOGY II (^)

PSYC 2000 CAREER PATHS IN PSYCHOLOGY (^)

PSYC 2040 EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY

PSYC 3130 STATISTICS FOR THE BEHAVIORAL SCIENCES (^)

or STAT 3000 STATISTICAL METHODS I

PSYC 3140 RESEARCH METHODS IN PSYCHOLOGY (^)

PSYC 4070 COGNITIVE PSYCHOLOGY (^)

or PSYC 4090 COGNITIVE NEUROSCIENCE

PSYC 4890 SENIOR ASSESSMENT IN PSYCHOLOGY (^)

#### **Select three 3-credit (PSYC) Psychology courses from Cognitive Science Concentration 9**

PSYC/PHIL 3650 PHILOSOPHY OF MIND (^)

PSYC 4210 SENSATION AND PERCEPTION (^)

PSYC 4230 BEHAVIORAL NEUROSCIENCE (^)

PSYC/PHIL 4250 LIMITS OF CONSCIOUSNESS (^)

PSYC 4520 PSYCHOLOGY OF LANGUAGE (^)

PHIL 4610 PHILOSOPHY OF LANGUAGE (^)

ENGL 3610 INTRODUCTION TO LINGUISTICS (\*\* ^)

#### **Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly. 12**

##### **Applied Psychology**

PSYC 3510 EDUCATIONAL PSYCHOLOGY (^)

PSYC 4020 LEARNING (^)

PSYC 4310 PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)

PSYC 4510 PSYCHOLOGY IN THE SCHOOLS (^)

PSYC 4560 FORENSIC PSYCHOLOGY (^)

PSYC 4630 ORGANIZATIONAL PSYCHOLOGY (^)

PSYC 4640 PERSONNEL PSYCHOLOGY (^)

##### **Social/Personality/Developmental Psychology**

PSYC/SOC 3450 SOCIAL PSYCHOLOGY (^)

PSYC 3520 CHILD PSYCHOLOGY (^)

PSYC 3540 ADOLESCENT PSYCHOLOGY (^)

PSYC 4450 PERSONALITY THEORIES (^)

PSYC/GERO 4460 PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)

##### **Mental Health**

PSYC 3410 CLINICAL PSYCHOLOGY (^)

PSYC 3430 PERSONALITY AND ADJUSTMENT (^)

PSYC 4440 ABNORMAL PSYCHOLOGY (^)

PSYC/GERO 4470 MENTAL HEALTH AND AGING (^)

PSYC 4570 BEHAVIOR ANALYSIS AND INTERVENTIONS (^)

PSYC 4590 PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)

PSYC 4800 LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^)

##### **Cognitive Neuroscience**

PSYC 4070 COGNITIVE PSYCHOLOGY (^)

PSYC 4090 COGNITIVE NEUROSCIENCE (^)

PSYC 4210 SENSATION AND PERCEPTION (^)

PSYC 4230 BEHAVIORAL NEUROSCIENCE (^)

PSYC/BIOL 4270 ANIMAL BEHAVIOR (^)

PSYC/BIOL 4320 HORMONES & BEHAVIOR (^)

PSYC 4520 PSYCHOLOGY OF LANGUAGE (^)

##### **Additional Perspectives**

PSYC/PHIL 3650 PHILOSOPHY OF MIND (^)

PSYC 4010 HISTORY OF PSYCHOLOGY (^)

PSYC 4030 CONCEPTUAL ANALYSIS OF BEHAVIOR (^)

PSYC/PSCI 4110 POLITICAL PSYCHOLOGY (^)

PSYC/BLST 4150 AFRICAN AMERICAN PSYCHOLOGY (^)

PSYC/PHIL 4250 LIMITS OF CONSCIOUSNESS (^)

PSYC 4680 POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)

PSYC 4960 INDEPENDENT STUDY IN PSYCHOLOGY (^)

PSYC 4990 SENIOR THESIS (^) <sup>1</sup>

#### **Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level 3**

PSYC 4024 LABORATORY IN PSYCHOLOGY: LEARNING (^)

PSYC 4074 LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^)

PSYC 4234 LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)

PSYC/BIOL 4280 ANIMAL BEHAVIOR LABORATORY (^)

PSYC 4414 LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)

PSYC 4544 LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)

PSYC 4644 LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)

PSYC 4990 SENIOR THESIS (^) <sup>2</sup>

#### **Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly. 6**

##### **College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |
| HIST 1000 and HIST 1010 - 6 hours                                    |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Developmental Psychology Psychology, Bachelor Arts with a Concentration in Developmental Psychology Requirements

| Code  | Title   | Credits |
|---|---|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |         |
| Minimum of "C-" required  |   |         |
| <b>Fundamental Skills 15</b>  |   |         |
| <b>Writing – 6 hrs.</b>   |   |         |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |         |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |         |
| <b>Oral Communication – 3 hrs.</b>  |   |         |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |         |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |         |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |         |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |         |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |         |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |         |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |         |
| <b>Data Literacy – 3 hrs.</b>   |   |         |
| Select one from the following:  |   |         |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |         |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |         |
| <b>Breadth of Knowledge 13</b>  |   |         |
| Social Science – 3 hrs.   |   |         |

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Psychology Major with a Developmental Psychology - 38+ Hours Required**

**Required Coursework 23**

The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.

|              |   |
|--------------|---|
| PSYC 1010    | INTRODUCTION TO PSYCHOLOGY I (**)         |
| PSYC 1020    | INTRODUCTION TO PSYCHOLOGY II (^)         |
| PSYC 2040    | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY |
| PSYC 2000    | CAREER PATHS IN PSYCHOLOGY (^)            |
| PSYC 3130    | STATISTICS FOR THE BEHAVIORAL SCIENCES    |
| or STAT 3000 | STATISTICAL METHODS I                     |
| PSYC 3140    | RESEARCH METHODS IN PSYCHOLOGY (^)        |
| PSYC 3520    | CHILD PSYCHOLOGY (^)                      |
| PSYC 3540    | ADOLESCENT PSYCHOLOGY (^)                 |
| PSYC 4890    | SENIOR ASSESSMENT IN PSYCHOLOGY (^)       |

**Select two 3-credit (PSYC) Psychology courses from Developmental Psychology Concentration 6**

|           |  |
|-----------|--|
| PSYC 2500 | LIFESPAN PSYCHOLOGY (^)  |
| PSYC 3510 | EDUCATIONAL PSYCHOLOGY (^)   |
| PSYC 4090 | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4230 | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC 4520 | PSYCHOLOGY OF LANGUAGE (^)   |
| PSYC 4544 | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                         |
| PSYC 4590 | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)                             |
| PSYC 4930 | SPECIAL TOPICS IN PSYCHOLOGY (^ Developmental Psychology topic)    |
| PSYC 4960 | INDEPENDENT STUDY IN PSYCHOLOGY (^ Developmental Psychology topic) |
| PSYC 4990 | SENIOR THESIS (^ Developmental Psychology topic)                   |

**Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly. 12**

### Applied Psychology

|           |   |
|-----------|---|
| PSYC 3510 | EDUCATIONAL PSYCHOLOGY (^)                |
| PSYC 4020 | LEARNING (^)                              |
| PSYC 4310 | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^) |
| PSYC 4510 | PSYCHOLOGY IN THE SCHOOLS (^)             |
| PSYC 4560 | FORENSIC PSYCHOLOGY (^)                   |
| PSYC 4630 | ORGANIZATIONAL PSYCHOLOGY (^)             |
| PSYC 4640 | PERSONNEL PSYCHOLOGY (^)                  |



**Social/Personality/Developmental Psychology**

|                |   |
|----------------|---|
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                         |
| PSYC 3520      | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540      | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4450      | PERSONALITY THEORIES (^)                      |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |

**Mental Health**

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

**Cognitive Neuroscience**

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)   |

**Additional Perspectives**

|                |   |
|----------------|---|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)                        |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)                     |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)           |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)                      |
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (** ^)            |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

**Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level** **3**

|                |   |
|----------------|---|
| PSYC 4024      | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074      | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414      | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544      | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |
| PSYC 4644      | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990      | SENIOR THESIS (^) <sup>2</sup>                                    |

**Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.** **6****College Breadth (choose one option)****15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement****16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Forensic Psychology

### Psychology, Bachelor of Arts with a Concentration in Forensic Psychology Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |



Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### **MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **Psychology Major with a Concentration in Forensic Psychology - 38+ Hours Required**

#### **Required Coursework 29**

The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.

|               |   |
|---------------|---|
| PSYC 1010     | INTRODUCTION TO PSYCHOLOGY I (**)             |
| PSYC 1020     | INTRODUCTION TO PSYCHOLOGY II (^)             |
| PSYC 2000     | CAREER PATHS IN PSYCHOLOGY (^)                |
| PSYC 2040     | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^) |
| PSYC 3130     | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)    |
| or STAT 3000  | STATISTICAL METHODS I                         |
| PSYC 3140     | RESEARCH METHODS IN PSYCHOLOGY (^)            |
| PSYC 4560     | FORENSIC PSYCHOLOGY (^)                       |
| PSYC 4800     | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE  |
| PSYC/SOC 3450 | SOCIAL PSYCHOLOGY (^)                         |
| PSYC 4440     | ABNORMAL PSYCHOLOGY (^)                       |
| PSYC 4890     | SENIOR ASSESSMENT IN PSYCHOLOGY (^)           |

\*Check with advisor to see if either PSYC 3450 or PSYC 4440 can be replaced with Criminal Justice courses.

### **Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly. 12**

#### **Applied Psychology**

|           |   |
|-----------|---|
| PSYC 3510 | EDUCATIONAL PSYCHOLOGY (^)                |
| PSYC 4020 | LEARNING (^)                              |
| PSYC 4310 | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^) |
| PSYC 4510 | PSYCHOLOGY IN THE SCHOOLS (^)             |
| PSYC 4560 | FORENSIC PSYCHOLOGY (^)                   |
| PSYC 4630 | ORGANIZATIONAL PSYCHOLOGY (^)             |
| PSYC 4640 | PERSONNEL PSYCHOLOGY (^)                  |

#### **Social/Personality/Developmental Psychology**

|                |   |
|----------------|---|
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                         |
| PSYC 3520      | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540      | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4450      | PERSONALITY THEORIES (^)                      |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |

### **Mental Health**

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

### **Cognitive Neuroscience**

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)   |

### **Additional Perspectives**

|                |   |
|----------------|---|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)                        |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)                     |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)           |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)                      |
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (** ^)            |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

### **Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level 3**

|                |   |
|----------------|---|
| PSYC 4024      | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074      | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414      | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544      | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |
| PSYC 4644      | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990      | SENIOR THESIS (^) <sup>2</sup>                                    |

### **Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly. 6**

#### **College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

|   |           |
|---|-----------|
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |           |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |           |
| HIST 1000 and HIST 1010 - 6 hours   |           |
| Additional Nat. and Physical Science w/ or without Lab - 4-5 hours                |           |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |           |
| <b>Bachelor of Arts Language Requirement</b>                                      | <b>16</b> |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |           |
| <b>ELECTIVES</b>  |           |
| Elective hours as required to reach a total of 120 hours                          |           |

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (second 3 of 6 credit hours). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Industrial/Organizational Psychology

### Psychology, Bachelor of Arts with a Concentration in Industrial/Organizational Psychology Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |

|  |  |
|--|--|
| Natural & Physical Science (must complete a lab) – 4 hrs.  |  |
| Arts – 3 hrs.  |  |
| <b>Individual and Social Responsibility</b>  | <b>6</b>   |
| Cultural Knowledge – 3 hrs.  |  |
| Civic Knowledge and Engagement – 3 hrs.  |  |
| <b>MAJOR REQUIREMENTS</b>  |  |
| **Course will satisfy UNO's General Education requirement  |  |
| ^Course requires pre-requisite(s)  |  |
| <b>Psychology Major with a Concentration in Industrial/Organizational Psychology - 38+ Hours Required</b>  |  |
| <b>Required Coursework</b>   | <b>23</b>  |
| The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.   |  |
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I (**)  |
| PSYC 1020  | INTRODUCTION TO PSYCHOLOGY II (^)  |
| PSYC 2000  | CAREER PATHS IN PSYCHOLOGY (^)   |
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^)                                  |
| PSYC 3130  | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)                                     |
| or STAT 3000   | STATISTICAL METHODS I  |
| PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY (^)   |
| PSYC 4630  | ORGANIZATIONAL PSYCHOLOGY (^)  |
| PSYC 4640  | PERSONNEL PSYCHOLOGY (^)   |
| PSYC 4890  | SENIOR ASSESSMENT IN PSYCHOLOGY (^)  |
| <b>Select two 3-credit (PSYC) Psychology courses from Organizational/Industrial Concentration</b>  | <b>6</b>   |
| PSYC 3450  | SOCIAL PSYCHOLOGY (^)  |
| PSYC 4070  | COGNITIVE PSYCHOLOGY (^)   |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)                                      |
| PSYC 4644  | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)                |
| PSYC 4650  | CREATIVITY AND INNOVATION IN ORGANIZATIONS                                     |
| PSYC 4930  | SPECIAL TOPICS IN PSYCHOLOGY (Industrial/Organizational Psychology topic)      |
| PSYC 4960  | INDEPENDENT STUDY IN PSYCHOLOGY (^ Industrial/Organizational Psychology topic) |
| PSYC 4990  | SENIOR THESIS (^ Industrial/Organizational Psychology topic)                   |
| <b>Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.</b> | <b>12</b>  |
| <b>Applied Psychology</b>  |  |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)   |
| PSYC 4020  | LEARNING (^)   |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)                                      |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)  |
| PSYC 4560  | FORENSIC PSYCHOLOGY (^)  |
| PSYC 4630  | ORGANIZATIONAL PSYCHOLOGY (^)  |
| PSYC 4640  | PERSONNEL PSYCHOLOGY (^)   |
| <b>Social/Personality/Developmental Psychology</b>   |  |

|                |   |
|----------------|---|
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                         |
| PSYC 3520      | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540      | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4450      | PERSONALITY THEORIES (^)                      |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |

**Mental Health**

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

**Cognitive Neuroscience**

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |

**Additional Perspectives**

|                |   |
|----------------|---|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)                        |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)           |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)                     |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)                      |
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (** ^)            |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

**Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level. Course taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.** **3**

|                |   |
|----------------|---|
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)  |
| PSYC 4024      | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074      | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414      | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544      | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |
| PSYC 4644      | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990      | SENIOR THESIS (^) <sup>2</sup>                                    |

**Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.** **6**

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement** **16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Mental Health

### Psychology, Bachelor Arts with a Concentration in Mental Health Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |

|  |   |
|--|---|
| STAT 1100  | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530  | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.  |   |
| <b>Breadth of Knowledge</b>  | <b>13</b>   |
| Social Science – 3 hrs.  |   |
| Humanities – 3 hrs.  |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |
| Arts – 3 hrs.  |   |
| <b>Individual and Social Responsibility</b>  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |
| Civic Knowledge and Engagement – 3 hrs.  |   |
| <b>MAJOR REQUIREMENTS</b>  |   |
| **Course will satisfy UNO's General Education requirement  |   |
| ^Course requires pre-requisite(s)  |   |
| <b>Psychology Major with a Concentration in Mental Health - 38+ Hours Required</b>   |   |
| <b>Required Coursework</b>   | <b>23</b>   |
| The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.   |   |
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I (**)                       |
| PSYC 1020  | INTRODUCTION TO PSYCHOLOGY II (^)                       |
| PSYC 2000  | CAREER PATHS IN PSYCHOLOGY (^)                          |
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^)           |
| PSYC 3130  | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)              |
| or STAT 3000   | STATISTICAL METHODS I                                   |
| PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY (^)                      |
| PSYC 3410  | CLINICAL PSYCHOLOGY (^)                                 |
| PSYC 4440  | ABNORMAL PSYCHOLOGY (^)                                 |
| PSYC 4890  | SENIOR ASSESSMENT IN PSYCHOLOGY (^)                     |
| <b>Select two 3-credit (PSYC) Mental Health Concentration courses from below</b>   | <b>6</b>  |
| PSYC 3430  | PERSONALITY AND ADJUSTMENT (^)                          |
| PSYC 4230  | BEHAVIORAL NEUROSCIENCE (^)                             |
| PSYC 4450  | PERSONALITY THEORIES (^)                                |
| PSYC/GERO 4470   | MENTAL HEALTH AND AGING (^)                             |
| PSYC 4560  | FORENSIC PSYCHOLOGY (^)                                 |
| PSYC 4590  | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)                  |
| PSYC 4680  | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)           |
| PSYC 4930  | SPECIAL TOPICS IN PSYCHOLOGY (Mental Health topic)      |
| PSYC 4960  | INDEPENDENT STUDY IN PSYCHOLOGY (^ Mental Health topic) |
| PSYC 4990  | SENIOR THESIS (^ Mental Health topic)                   |
| <b>Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.</b> | <b>12</b>   |
| <b>Applied Psychology</b>  |   |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)                              |
| PSYC 4020  | LEARNING (^)  |

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| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)                         |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)                                     |
| PSYC 4560  | FORENSIC PSYCHOLOGY (^)   |
| PSYC 4630  | ORGANIZATIONAL PSYCHOLOGY (^)                                     |
| PSYC 4640  | PERSONNEL PSYCHOLOGY (^)  |
| <b>Social/Personality/Developmental Psychology</b>                               |   |
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)   |
| PSYC 3520  | CHILD PSYCHOLOGY (^)  |
| PSYC 3540  | ADOLESCENT PSYCHOLOGY (^)   |
| PSYC 4450  | PERSONALITY THEORIES (^)  |
| PSYC/GERO 4460   | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)                     |
| <b>Mental Health</b>   |   |
| PSYC 3410  | CLINICAL PSYCHOLOGY (^)   |
| PSYC 3430  | PERSONALITY AND ADJUSTMENT (^)                                    |
| PSYC 4440  | ABNORMAL PSYCHOLOGY (^)   |
| PSYC/GERO 4470   | MENTAL HEALTH AND AGING (^)                                       |
| PSYC 4570  | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)                           |
| PSYC 4590  | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)                            |
| PSYC 4800  | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^)                  |
| <b>Cognitive Neuroscience</b>  |   |
| PSYC 4070  | COGNITIVE PSYCHOLOGY (^)  |
| PSYC 4090  | COGNITIVE NEUROSCIENCE (^)  |
| PSYC 4210  | SENSATION AND PERCEPTION (^)                                      |
| PSYC 4230  | BEHAVIORAL NEUROSCIENCE (^)                                       |
| PSYC/BIOL 4270   | ANIMAL BEHAVIOR (^)   |
| PSYC/BIOL 4320   | HORMONES & BEHAVIOR (^)   |
| PSYC 4520  | PSYCHOLOGY OF LANGUAGE (^)  |
| <b>Additional Perspectives</b>   |   |
| PSYC/PHIL 3650   | PHILOSOPHY OF MIND (^)  |
| PSYC 4030  | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)                               |
| PSYC 4010  | HISTORY OF PSYCHOLOGY (^)   |
| PSYC/PSCI 4110   | POLITICAL PSYCHOLOGY (^)  |
| PSYC/BLST 4150   | AFRICAN AMERICAN PSYCHOLOGY (** ^)                                |
| PSYC/PHIL 4250   | LIMITS OF CONSCIOUSNESS (^)                                       |
| PSYC 4680  | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)                     |
| PSYC 4960  | INDEPENDENT STUDY IN PSYCHOLOGY (^)                               |
| PSYC 4990  | SENIOR THESIS (^) <sup>1</sup>                                    |
| <b>Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level</b> | <b>3</b>  |
| PSYC 4024  | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074  | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234  | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280   | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414  | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544  | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |

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| PSYC 4644  | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^) |               |
| PSYC 4990  | SENIOR THESIS (^) <sup>2</sup>                                  |               |
| <b>Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.</b> |   | <b>6</b>      |
| <b>College Breadth (choose one option)</b>   |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |   |               |
| Option 2: Additional General Education Requirements - 18+ hours  |   |               |
| Additional quantitative literacy - 3 hours   |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |   |               |
| HIST 1000 and HIST 1010 - 6 hours  |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)  |   |               |
| <b>Bachelor of Arts Language Requirement</b>   |   | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120  |   |               |
| <b>ELECTIVES</b>   |   |               |
| Elective hours as required to reach a total of 120 hours   |   |               |

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Neuroscience and Behavior

### Psychology, Bachelor of Arts with a Concentration in Neuroscience and Behavior Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |

|  |   |           |
|--|---|-----------|
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                          |           |
| <b>Data Literacy – 3 hrs.</b>  |   |           |
| Select one from the following:   |   |           |
| STAT 1100  | DATA LITERACY AND VISUALIZATION                       |           |
| STAT 1530  | ELEMENTARY STATISTICS                                 |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.          |   |           |
| <b>Breadth of Knowledge</b>  |   | <b>13</b> |
| Social Science – 3 hrs.  |   |           |
| Humanities – 3 hrs.  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |           |
| Arts – 3 hrs.  |   |           |
| <b>Individual and Social Responsibility</b>  |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |           |
| Civic Knowledge and Engagement – 3 hrs.  |   |           |
| <b>MAJOR REQUIREMENTS</b>  |   |           |
| **Course will satisfy UNO's General Education requirement  |   |           |
| ^Course requires pre-requisite(s)  |   |           |
| <b>Psychology Major with a Concentration in Neuroscience and Behavior - 38+ Hours Required</b>   |   | <b>17</b> |
| <b>Required Coursework</b>   |   |           |
| The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes. |   |           |
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I (**)                     |           |
| PSYC 1020  | INTRODUCTION TO PSYCHOLOGY II (^)                     |           |
| PSYC 2000  | CAREER PATHS IN PSYCHOLOGY (^)                        |           |
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY             |           |
| PSYC 3130  | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)            |           |
| or STAT 3000   | STATISTICAL METHODS I                                 |           |
| PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY (^)                    |           |
| PSYC 4890  | SENIOR ASSESSMENT IN PSYCHOLOGY (^)                   |           |
| <b>Select two of the following concentration courses in Neuroscience and Behavior</b>  |   | <b>6</b>  |
| PSYC 4090  | COGNITIVE NEUROSCIENCE (^)                            |           |
| PSYC 4230  | BEHAVIORAL NEUROSCIENCE (^)                           |           |
| PSYC/BIOL 4270   | ANIMAL BEHAVIOR (^)                                   |           |
| PSYC/BIOL 4320   | HORMONES & BEHAVIOR (^)                               |           |
| <b>Select two of the following concentration courses in Neuroscience and Behavior not fulfilled above</b>  |   | <b>6</b>  |
| PSYC 4020  | LEARNING (^)  |           |
| PSYC 4024  | LABORATORY IN PSYCHOLOGY: LEARNING (^)                |           |
| PSYC 4090  | COGNITIVE NEUROSCIENCE (^)                            |           |
| PSYC/NEUR 4160   | NEUROPHARMACOLOGY (^)                                 |           |
| PSYC 4210  | SENSATION AND PERCEPTION (^)                          |           |
| PSYC 4230  | BEHAVIORAL NEUROSCIENCE (^)                           |           |
| PSYC 4234  | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^) |           |
| PSYC/PHIL 4250   | LIMITS OF CONSCIOUSNESS (^)                           |           |
| PSYC/BIOL 4270   | ANIMAL BEHAVIOR (^)                                   |           |
| PSYC/BIOL 4280   | ANIMAL BEHAVIOR LABORATORY (^)                        |           |
| PSYC/BIOL 4320   | HORMONES & BEHAVIOR (^)                               |           |



|  |  |           |
|--|--|-----------|
| PSYC/NEUR 4340   | ADVANCED BEHAVIORAL NEUROSCIENCE                       |           |
| PSYC 4440  | ABNORMAL PSYCHOLOGY (^)                                |           |
| PSYC 4930  | SPECIAL TOPICS IN PSYCHOLOGY (^ Neuroscience topic)    |           |
| PSYC 4960  | INDEPENDENT STUDY IN PSYCHOLOGY (^ Neuroscience topic) |           |
| PSYC 4990  | SENIOR THESIS (^ Neuroscience topic)                   |           |
| <b>Select four 3-credit (PSYC) Psychology courses from four of the five areas below; Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.</b> |  | <b>12</b> |
| <b>Applied Psychology</b>  |  |           |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)                             |           |
| PSYC 4020  | LEARNING (^)   |           |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)              |           |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)                          |           |
| PSYC 4560  | FORENSIC PSYCHOLOGY (^)                                |           |
| PSYC 4630  | ORGANIZATIONAL PSYCHOLOGY (^)                          |           |
| PSYC 4640  | PERSONNEL PSYCHOLOGY (^)                               |           |
| <b>Social/Personality/Developmental Psychology</b>   |  |           |
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                                  |           |
| PSYC 3520  | CHILD PSYCHOLOGY (^)                                   |           |
| PSYC 3540  | ADOLESCENT PSYCHOLOGY (^)                              |           |
| PSYC 4450  | PERSONALITY THEORIES (^)                               |           |
| PSYC/GERO 4460   | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)          |           |
| <b>Mental Health</b>   |  |           |
| PSYC 3410  | CLINICAL PSYCHOLOGY (^)                                |           |
| PSYC 3430  | PERSONALITY AND ADJUSTMENT (^)                         |           |
| PSYC 4440  | ABNORMAL PSYCHOLOGY (^)                                |           |
| PSYC/GERO 4470   | MENTAL HEALTH AND AGING (^)                            |           |
| PSYC 4570  | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)                |           |
| PSYC 4590  | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)                 |           |
| PSYC 4800  | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^)       |           |
| <b>Cognitive Neuroscience</b>  |  |           |
| PSYC 4070  | COGNITIVE PSYCHOLOGY (^)                               |           |
| PSYC 4090  | COGNITIVE NEUROSCIENCE (^)                             |           |
| PSYC 4210  | SENSATION AND PERCEPTION (^)                           |           |
| PSYC 4230  | BEHAVIORAL NEUROSCIENCE (^)                            |           |
| PSYC/BIOL 4270   | ANIMAL BEHAVIOR (^)                                    |           |
| PSYC/BIOL 4320   | HORMONES & BEHAVIOR (^)                                |           |
| PSYC 4520  | PSYCHOLOGY OF LANGUAGE (^)                             |           |
| <b>Additional Perspectives</b>   |  |           |
| PSYC/PHIL 3650   | PHILOSOPHY OF MIND (^)                                 |           |
| PSYC 4010  | HISTORY OF PSYCHOLOGY (^)                              |           |
| PSYC 4030  | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)                    |           |
| PSYC/PSCI 4110   | POLITICAL PSYCHOLOGY (^)                               |           |
| PSYC/BLST 4150   | AFRICAN AMERICAN PSYCHOLOGY (** ^)                     |           |
| PSYC/PHIL 4250   | LIMITS OF CONSCIOUSNESS (^)                            |           |
| PSYC 4680  | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)          |           |
| PSYC 4960  | INDEPENDENT STUDY IN PSYCHOLOGY (^)                    |           |

|  |   |               |
|--|---|---------------|
| PSYC 4990  | SENIOR THESIS (^) <sup>1</sup>                                    |               |
| <b>Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level; A course taken for this concentration can be counted toward this requirement. See an advisor to plan accordingly.</b>        |   | <b>3</b>      |
| PSYC 4024  | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |               |
| PSYC 4074  | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |               |
| PSYC 4234  | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |               |
| PSYC/BIOL 4280   | ANIMAL BEHAVIOR LABORATORY (^)                                    |               |
| PSYC 4414  | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |               |
| PSYC 4544  | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |               |
| PSYC 4644  | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |               |
| PSYC 4990  | SENIOR THESIS (^) <sup>2</sup>                                    |               |
| <b>Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.</b> |   | <b>6</b>      |
| <b>College Breadth (choose one option)</b>   |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |   |               |
| Option 2: Additional General Education Requirements - 18+ hours  |   |               |
| Additional quantitative literacy - 3 hours   |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |   |               |
| HIST 1000 and HIST 1010 - 6 hours  |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)  |   |               |
| <b>Bachelor of Arts Language Requirement</b>   |   | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120  |   |               |
| <b>ELECTIVES</b>   |   |               |
| Elective hours as required to reach a total of 120 hours   |   |               |

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.



# School Psychology

## Psychology, Bachelor of Arts with a Concentration in School Psychology Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>  |   |           |
| Minimum of "C-" required   |   |           |
| <b>Fundamental Skills</b>  |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>  |   |           |
| ENGL 1150  | ENGLISH COMPOSITION I   |           |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>   |   |           |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>  |   |           |
| MATH 1120<br><br>or MATH 1130<br>or MATH 1140<br><br>or MATH 1300  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>  |   |           |
| Select one from the following:   |   |           |
| STAT 1100  | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530  | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.          |   |           |
| <b>Breadth of Knowledge</b>  |   | <b>13</b> |
| Social Science – 3 hrs.  |   |           |
| Humanities – 3 hrs.  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |           |
| Arts – 3 hrs.  |   |           |
| <b>Individual and Social Responsibility</b>  |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |           |
| Civic Knowledge and Engagement – 3 hrs.  |   |           |
| <b>MAJOR REQUIREMENTS</b>  |   |           |
| **Course will satisfy UNO's General Education requirement  |   |           |
| ^Course requires pre-requisite(s)  |   |           |
| <b>Psychology Major with a Concentration in School Psychology - 38+ Hours Required</b>   |   |           |
| <b>Required Coursework</b>   |   | <b>23</b> |
| The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes. |   |           |
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I (**)   |           |
| PSYC 1020  | INTRODUCTION TO PSYCHOLOGY II (^)   |           |
| PSYC 2000  | CAREER PATHS IN PSYCHOLOGY (^)  |           |
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^)   |           |
| PSYC 3130<br><br>or STAT 3000  | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)<br>STATISTICAL METHODS I   |           |

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| PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY (^)               |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)                       |
| PSYC 4590  | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4890  | SENIOR ASSESSMENT IN PSYCHOLOGY (^)              |
| <b>Select two 3-credit (PSYC) School Psychology Concentration courses From below</b>   |  |
| PSYC 3410  | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3520  | CHILD PSYCHOLOGY (^)                             |
| PSYC 3540  | ADOLESCENT PSYCHOLOGY (^)                        |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)        |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)                    |
| <b>Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.</b> |  |
| <b>Applied Psychology</b>  |  |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)                       |
| PSYC 4020  | LEARNING (^)                                     |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)        |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)                    |
| PSYC 4560  | FORENSIC PSYCHOLOGY (^)                          |
| PSYC 4630  | ORGANIZATIONAL PSYCHOLOGY (^)                    |
| PSYC 4640  | PERSONNEL PSYCHOLOGY (^)                         |
| <b>Social/Personality/Developmental Psychology</b>   |  |
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                            |
| PSYC 3520  | CHILD PSYCHOLOGY (^)                             |
| PSYC 3540  | ADOLESCENT PSYCHOLOGY (^)                        |
| PSYC 4450  | PERSONALITY THEORIES (^)                         |
| PSYC/GERO 4460   | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)    |
| <b>Mental Health</b>   |  |
| PSYC 3410  | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430  | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440  | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470   | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570  | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590  | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800  | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |
| <b>Cognitive Neuroscience</b>  |  |
| PSYC 4070  | COGNITIVE PSYCHOLOGY (^)                         |
| PSYC 4090  | COGNITIVE NEUROSCIENCE (^)                       |
| PSYC 4210  | SENSATION AND PERCEPTION (^)                     |
| PSYC 4230  | BEHAVIORAL NEUROSCIENCE (^)                      |
| PSYC/BIOL 4270   | ANIMAL BEHAVIOR (^)                              |
| PSYC/BIOL 4320   | HORMONES & BEHAVIOR (^)                          |
| PSYC 4520  | PSYCHOLOGY OF LANGUAGE (^)                       |
| <b>Additional Perspectives</b>   |  |
| PSYC/PHIL 3650   | PHILOSOPHY OF MIND (^)                           |
| PSYC 4010  | HISTORY OF PSYCHOLOGY (^)                        |
| PSYC 4030  | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)              |

|  |   |
|--|---|
| PSYC/PSCI 4110   | POLITICAL PSYCHOLOGY (^)  |
| PSYC/BLST 4150   | AFRICAN AMERICAN PSYCHOLOGY (** ^)                                |
| PSYC/PHIL 4250   | LIMITS OF CONSCIOUSNESS (^)                                       |
| PSYC 4680  | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)                     |
| PSYC 4960  | INDEPENDENT STUDY IN PSYCHOLOGY (^)                               |
| PSYC 4990  | SENIOR THESIS (^) <sup>1</sup>                                    |
| <b>Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level</b>   |   |
| PSYC 4024  | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074  | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234  | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280   | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414  | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544  | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |
| PSYC 4644  | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990  | SENIOR THESIS (^) <sup>2</sup>                                    |
| <b>Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.</b> |   |
| <b>College Breadth (choose one option)</b>   |   |
| <b>Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours</b>   |   |
| <b>Option 2: Additional General Education Requirements - 18+ hours</b>   |   |
| Additional quantitative literacy - 3 hours   |   |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |   |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |   |
| HIST 1000 and HIST 1010 - 6 hours  |   |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |   |
| <b>Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)</b>   |   |
| <b>Bachelor of Arts Language Requirement</b>   |   |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120  |   |
| <b>ELECTIVES</b>   |   |
| Elective hours as required to reach a total of 120 hours   |   |

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Psychology, Bachelor of Science

### Psychology, Bachelor of Science Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>  |   |           |
| Minimum of "C-" required   |   |           |
| <b>Fundamental Skills</b>  |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>  |   |           |
| ENGL 1150  | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>   |   |           |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120   | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>  |   |           |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130   | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140   | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>  |   |           |
| Select one from the following:   |   |           |
| STAT 1100  | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530  | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.          |   |           |
| <b>Breadth of Knowledge</b>  |   | <b>13</b> |
| Social Science – 3 hrs.  |   |           |
| Humanities – 3 hrs.  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |           |
| Arts – 3 hrs.  |   |           |
| <b>Individual and Social Responsibility</b>  |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |           |
| Civic Knowledge and Engagement – 3 hrs.  |   |           |
| <b>MAJOR REQUIREMENTS</b>  |   |           |
| **Course will satisfy UNO's General Education requirement  |   |           |
| ^Course requires pre-requisite(s)  |   |           |
| <b>Psychology Major - 38 Hours Required</b>  |   | <b>17</b> |
| <b>Required Coursework</b>   |   |           |
| The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes. |   |           |
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I                            |           |
| PSYC 1020  | INTRODUCTION TO PSYCHOLOGY II (^)                       |           |
| PSYC 2000  | CAREER PATHS IN PSYCHOLOGY (^)                          |           |
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^)           |           |
| PSYC 3130  | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)              |           |
| or STAT 3000   | STATISTICAL METHODS I                                   |           |
| PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY (^)                      |           |

|   |   |           |
|---|---|-----------|
| PSYC 4890   | SENIOR ASSESSMENT IN PSYCHOLOGY (^)                               |           |
| <b>Select four 3-credit (PSYC) Psychology courses from four of the five areas below</b> |   | <b>12</b> |
| <b>Applied Psychology</b>   |   |           |
| PSYC 3510   | EDUCATIONAL PSYCHOLOGY (^)  |           |
| PSYC 4020   | LEARNING (^)  |           |
| PSYC 4310   | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)                         |           |
| PSYC 4510   | PSYCHOLOGY IN THE SCHOOLS (^)                                     |           |
| PSYC 4560   | FORENSIC PSYCHOLOGY (^)   |           |
| PSYC 4630   | ORGANIZATIONAL PSYCHOLOGY (^)                                     |           |
| PSYC 4640   | PERSONNEL PSYCHOLOGY (^)  |           |
| <b>Social/Personality/Developmental Psychology</b>                                      |   |           |
| PSYC/SOC 3450   | SOCIAL PSYCHOLOGY (^)   |           |
| PSYC 3520   | CHILD PSYCHOLOGY (^)  |           |
| PSYC 3540   | ADOLESCENT PSYCHOLOGY (^)   |           |
| PSYC 4450   | PERSONALITY THEORIES (^)  |           |
| PSYC/GERO 4460  | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)                     |           |
| <b>Mental Health</b>  |   |           |
| PSYC 3410   | CLINICAL PSYCHOLOGY (^)   |           |
| PSYC 3430   | PERSONALITY AND ADJUSTMENT (^)                                    |           |
| PSYC 4440   | ABNORMAL PSYCHOLOGY (^)   |           |
| PSYC/GERO 4470  | MENTAL HEALTH AND AGING (^)                                       |           |
| PSYC 4570   | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)                           |           |
| PSYC 4590   | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)                            |           |
| PSYC 4800   | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^)                  |           |
| <b>Cognitive Neuroscience</b>   |   |           |
| PSYC 4070   | COGNITIVE PSYCHOLOGY (^)  |           |
| PSYC 4090   | COGNITIVE NEUROSCIENCE (^)  |           |
| PSYC 4210   | SENSATION AND PERCEPTION (^)                                      |           |
| PSYC 4230   | BEHAVIORAL NEUROSCIENCE (^)                                       |           |
| PSYC/BIOL 4270  | ANIMAL BEHAVIOR (^)   |           |
| PSYC/BIOL 4320  | HORMONES & BEHAVIOR (^)   |           |
| PSYC 4520   | PSYCHOLOGY OF LANGUAGE (^)  |           |
| <b>Additional Perspectives</b>  |   |           |
| PSYC/PHIL 3650  | PHILOSOPHY OF MIND (^)  |           |
| PSYC 4010   | HISTORY OF PSYCHOLOGY (^)   |           |
| PSYC 4030   | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)                               |           |
| PSYC/PSCI 4110  | POLITICAL PSYCHOLOGY (^)  |           |
| PSYC/BLST 4150  | AFRICAN AMERICAN PSYCHOLOGY (** ^)                                |           |
| PSYC/PHIL 4250  | LIMITS OF CONSCIOUSNESS (^)                                       |           |
| PSYC 4680   | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)                     |           |
| PSYC 4960   | INDEPENDENT STUDY IN PSYCHOLOGY (^)                               |           |
| PSYC 4990   | SENIOR THESIS (^) <sup>1</sup>                                    |           |
| <b>Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level</b>        |   | <b>3</b>  |
| PSYC 4024   | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |           |
| PSYC 4074   | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |           |

|   |   |               |
|---|---|---------------|
| PSYC 4234   | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)           |               |
| PSYC/BIOL 4280  | ANIMAL BEHAVIOR LABORATORY (^)                                  |               |
| PSYC 4414   | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                     |               |
| PSYC 4544   | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                      |               |
| PSYC 4644   | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^) |               |
| PSYC 4990   | SENIOR THESIS (^) <sup>2</sup>                                  |               |
| <b>Select two 3-credit (PSYC) Psychology courses at the 3000-4000 Level</b>   |   | <b>6</b>      |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours   |   |               |
| Option 2: Additional General Education Requirements - 18+ hours   |   |               |
| Additional quantitative literacy - 3 hours  |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours  |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |   |               |
| HIST 1000 and HIST 1010 - 6 hours   |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours  |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)   |   |               |
| <b>Bachelor Science Cognate Requirement</b>   |   | <b>15</b>     |
| Students pursuing a BS in psychology must complete 15 credit hours of a cognate set of courses. Students will select one of the five cognate sets below. Course selection must include at least two different departments or programs. No more than 6 hours of courses may be at the 1000 level, with the remaining 9 hours taken at the 2000 level or above. Students may take a minor in place of the cognate under the following circumstances:<br>1) Students pursuing Option 1 College Requirements, which requires a minor, must take a second minor to satisfy the cognate requirement; OR 2) Students pursuing Option 2 College Requirements, which require additional general education courses, may add a minor to satisfy the cognate requirement. |   |               |
| <b>Advocacy, Ethics, Social Justice &amp; Law</b>   |   |               |
| BSAD 3600   | BUSINESS ETHICS (^)   |               |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                      |               |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                                   |               |
| CRCJ 1010   | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)                    |               |
| CRCJ 3310   | CRIMINAL LAW (^)  |               |
| CRCJ 3410   | LAW AND THE BLACK COMMUNITY (**)                                |               |
| CRCJ 3380   | POWER, PERCEPTION, AND PUNISHMENT (** ^)                        |               |
| CRCJ 3390   | WOMEN, CRIME AND JUSTICE (** ^)                                 |               |
| GEOG/ENVN/BIOL 4820   | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)             |               |
| HIST 4340   | U.S. CONSTITUTIONAL HISTORY SINCE 1860 (^)                      |               |
| PHIL 1210   | CRITICAL REASONING (**)   |               |
| PHIL 2030   | INTRODUCTION TO ETHICS (**)                                     |               |
| PHIL 3040   | PHILOSOPHY OF LAW (^)   |               |
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)               |               |
| PSCI 2110   | INTRODUCTION TO PUBLIC POLICY (**)                              |               |

|           |   |
|-----------|---|
| PSCI 2180 | INTRODUCTION TO LAW (**)                |
| PSCI 4140 | CONSTITUTIONAL LAW: CIVIL RIGHTS (^)    |
| PSCI 4190 | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^) |
| RELU 3460 | REAL ESTATE LAW (^)                     |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (**)             |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)    |
| SOC 4740  | SOCIAL JUSTICE AND SOCIAL CHANGE (^)    |

#### Artistic and Literary Perspectives

|           |   |
|-----------|---|
| ART 1010  | ART APPRECIATION (** ^)                               |
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850 (^)                |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                  |
| BLST 1260 | SURVEY OF BLACK LITERATURE                            |
| BLST 2510 | MUSIC AND THE BLACK EXPERIENCE (**)                   |
| ENGL 2110 | INTRODUCTION TO CREATIVE NONFICTION WRITING (** ^)    |
| ENGL 2280 | INTRODUCTION TO LANGUAGE (** ^)                       |
| ENGL 2310 | INTRODUCTION TO BRITISH LITERATURE I (** ^)           |
| ENGL 2320 | INTRODUCTION TO BRITISH LITERATURE II (** ^)          |
| ENGL 2450 | AMERICAN LITERATURE I (** ^)                          |
| ENGL 2460 | AMERICAN LITERATURE II (** ^)                         |
| ENGL 3130 | AMERICAN NONFICTION (** ^)                            |
| JMC 3700  | VISUAL COMMUNICATION AND CULTURE (** ^)               |
| PHIL 3060 | VALUES AND VIRTUES                                    |
| PHIL 3220 | PHILOSOPHY OF ART (^)                                 |
| KINS 3110 | INTRODUCTION TO DANCE                                 |
| RELI 1010 | RELIGIONS OF THE WORLD (**)                           |
| RELI 2010 | RELIGION AND CRITICAL THOUGHT (^)                     |
| THEA 1050 | FILM HISTORY AND APPRECIATION (**)                    |
| THEA 3760 | THEATRE HISTORY AND LITERATURE:MODERN / 1850-2000 (^) |
| WRWS 3500 | CREATIVE WRITING FOR THE ARTS (** ^)                  |

#### Global Culture & Diverse Populations

|           |   |
|-----------|---|
| ART 1040  | GLOBAL INDIGENOUS ART (**)                              |
| BLST 1000 | INTRODUCTION TO BLACK STUDIES (**)                      |
| BLST 2420 | AFRICAN-AMERICAN HISTORY II: 1865-1954 (**)             |
| BLST 2430 | AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY (**)     |
| CMST 4570 | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (** ^) |
| CMST 4580 | COMMUNICATING RACE, ETHNICITY & IDENTITY (** ^)         |
| CRCJ 3380 | POWER, PERCEPTION, AND PUNISHMENT (** ^)                |
| CRCJ 4750 | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^)   |
| ENGL 2230 | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)     |
| ENGL 2260 | BLACK SHORT STORY (** ^)                                |
| ENGL 2470 | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)             |
| ENGL 2490 | LATINO/A LITERATURE (** ^)                              |

|           |   |
|-----------|---|
| ENGL 3280 | IRISH LITERATURE I (** ^)                                     |
| ENGL 3290 | IRISH LITERATURE II (** ^)                                    |
| EMGT 1150 | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES (**) |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION (**)                           |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD (**)                            |
| PHHB 4650 | GLOBAL HEALTH (**)  |
| RELI 2020 | RELIGION AND HUMAN RIGHTS (**)                                |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)                          |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)                  |
| SOWK 2120 | RACE, CLASS AND GENDER IN THE UNITED STATES (**)              |
| SPED 1500 | INTRODUCTION TO SPECIAL EDUCATION (** ^)                      |

#### Health and Science Explorations

|                |  |
|----------------|--|
| BIOL 1060      | INTRODUCTION TO MEDICAL CAREERS & ETHICS       |
| BIOL 1450      | BIOLOGY I (** ^)                               |
| BIOL 1750      | BIOLOGY II (^)                                 |
| BIOL 2060      | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^) |
| BIOL 2140      | GENETICS (^)                                   |
| BIOL 3240      | INTRODUCTION TO IMMUNOLOGY (^)                 |
| BIOL 4890      | GENES, BRAIN, AND BEHAVIOR (^)                 |
| CMST 3750      | GENDER AND COMMUNICATION (** ^)                |
| CMST 4220      | HEALTH COMMUNICATION (^)                       |
| GERO 2000      | INTRODUCTION TO GERONTOLOGY (**)               |
| GERO/BIOL 3500 | BIOLOGICAL PRINCIPLES OF AGING (^)             |
| GERO 4550      | HEALTH ASPECTS OF AGING                        |
| PHHB 1500      | FOUNDATIONS IN PUBLIC HEALTH (**)              |
| PHHB 2310      | HEALTHFUL LIVING                               |
| PHHB 4700      | WOMEN'S HEALTH AND ISSUES OF DIVERSITY (**)    |
| PHHB 4880      | PUBLIC HEALTH POLICY (^)                       |
| PHHB 4950      | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)      |
| NEUR 1520      | INTRODUCTION TO NEUROSCIENCE I (^)             |
| NEUR 1540      | INTRODUCTION TO NEUROSCIENCE II (^)            |
| PHIL 2300      | BIOMEDICAL ETHICS                              |
| PHIL 3400      | PHILOSOPHY OF NATURAL SCIENCE (^)              |
| PHIL 4220      | NEUROETHICS (^)                                |
| RELI 2500      | SPIRITUALITY AND WELLNESS (^)                  |

#### May choose only 1 of the following MATH courses:

|           |  |
|-----------|--|
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1940 | CALCULUS FOR BIOMEDICINE (^)                               |
| MATH 1950 | CALCULUS I (^)   |

#### Work Technology & Communication

|           |  |
|-----------|--|
| CMST 2010 | INTERPERSONAL COMMUNICATION (**)       |
| CMST 4220 | HEALTH COMMUNICATION (^)               |
| CSCI 1200 | COMPUTER SCIENCE PRINCIPLES (** ^)     |
| CSCI 4260 | USER EXPERIENCE DESIGN (^)             |
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO) (** ^) |

|           |   |
|-----------|---|
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)<br>(** ^) |
| ECON 4340 | ECONOMICS OF TECHNOLOGY (^)               |
| ENGL 3050 | WRITING FOR THE WORKPLACE (^)             |
| ENGL 4830 | TECHNICAL COMMUNICATION (^)               |
| MGMT 1500 | INTRODUCTION TO BUSINESS (**)             |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS<br>(^)     |
| MGMT 4090 | MANAGING COLLABORATIVE<br>ENGAGEMENT (^)  |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)               |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)                |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)             |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY<br>(^)   |
| SOC 3800  | WORK AND SOCIETY (^)                      |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Psychology, Bachelor of Science Optional Concentrations

Psychology majors may declare a concentration in any one of the following seven areas. Each concentration is a minimum of 12 credit hours. A concentration is optional, and only one concentration may be declared. The concentration will be noted on the student's transcript.

- Applied Behavior Analysis (p. 321)
- Cognitive Science (p. 324)
- Developmental Psychology (p. 327)
- Forensic Psychology (p. 330)
- Industrial/Organizational Psychology (p. 333)
- Mental Health (p. 336)
- Neuroscience and Behavior (p. 339)
- School Psychology (p. 342)

## Psychology, Bachelor of Science Four Year Plan

**Freshman**

| Fall  |                              | Credits   |
|---|------------------------------|-----------|
| ENGL 1150   | ENGLISH COMPOSITION I        | 3         |
| PSYC 1010   | INTRODUCTION TO PSYCHOLOGY I | 3         |
| General Education Course or Elective  |                              | 3         |
| General Education Course or Elective  |                              | 3         |
| Psychology Cognate Course   |                              | 3         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |                              |           |
| <b>Credits</b>  |                              | <b>15</b> |

**Spring**

|                           |   |   |
|---------------------------|---|---|
| ENGL 1160                 | COLLEGE RESEARCH AND<br>INFORMATION LITERACY  | 3 |
| MATH 1120<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING<br>or COLLEGE ALGEBRA WITH SUPPORT | 3 |
| PSYC 1020                 | INTRODUCTION TO PSYCHOLOGY II (*)   | 3 |
| PSYC 2000                 | CAREER PATHS IN PSYCHOLOGY  | 1 |
| PSYC 2040                 | EXPLORATIONS IN THE SCIENCE OF<br>PSYCHOLOGY  | 3 |
| Psychology Cognate        |   | 3 |

\*PSYC 1020: Recommended to take PSYC 2040 concurrently

\*\*PSYC 2040: Required prior to or concurrent with PSYC 3130. Recommended to take concurrently with PSYC 1020.

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits** **16**

**Sophomore****Fall**

|                           |   |   |
|---------------------------|---|---|
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                  | 3 |
| PSYC 3130<br>or STAT 3000 | STATISTICS FOR THE BEHAVIORAL<br>SCIENCES<br>or STATISTICAL METHODS I | 3 |

|                                      |   |
|--------------------------------------|---|
| Psychology Cognate                   | 3 |
| General Education Course or Elective | 4 |
| General Education Course or Elective | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits** **16**

**Spring**

|                                      |                                |   |
|--------------------------------------|--------------------------------|---|
| PSYC 3140                            | RESEARCH METHODS IN PSYCHOLOGY | 4 |
| Psychology Distribution/Upper-Level  |                                | 3 |
| Psychology Cognate                   |                                | 3 |
| General Education Course or Elective |                                | 3 |
| General Education Course or Elective |                                | 3 |

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

**Credits** **16**

**Junior****Fall**

|                                      |   |
|--------------------------------------|---|
| Psychology Distribution/Upper-Level  | 3 |
| Psychology Distribution/Upper-Level  | 3 |
| Psychology Cognate                   | 3 |
| General Education Course or Elective | 3 |
| Elective                             | 3 |



Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

| Credits  |  | 15 |
|--|--|----|
| <b>Spring</b>  |  |    |
| Psychology Distribution/Upper-Level  |  | 3  |
| Psychology Distribution/Upper-Level  |  | 3  |
| Elective   |  | 3  |
| Elective   |  | 3  |
| Elective   |  | 3  |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |  |    |

| Credits   |                                     | 15 |
|---|-------------------------------------|----|
| <b>Senior</b>   |                                     |    |
| <b>Fall</b>   |                                     |    |
| PSYC 4890   | SENIOR ASSESSMENT IN PSYCHOLOGY (*) | 0  |
| Psychology Distribution/Upper-Level/LAB*  |                                     | 3  |
| Elective  |                                     | 3  |
| Elective  |                                     | 3  |
| Elective  |                                     | 3  |
| Elective  |                                     | 3  |
| *Senior Assessment can be completed in either fall or spring semester of senior year.   |                                     |    |
| **An Advanced Psychology Lab will be required for the Psychology major. Students must have already taken a corresponding lecture, and all core major requirements prior to taking the lab. Students must work closely with their major advisor to plan effectively for this requirement and to discuss the best options for their interests and future plans. |                                     |    |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.  |                                     |    |

| Credits   |                                     | 15  |
|---|-------------------------------------|-----|
| <b>Spring</b>   |                                     |     |
| PSYC 4890   | SENIOR ASSESSMENT IN PSYCHOLOGY (*) | 0   |
| Psychology Distribution/Upper-Level/LAB**   |                                     | 3   |
| Elective  |                                     | 3-4 |
| Elective  |                                     | 3   |
| Elective  |                                     | 3   |
| *Senior Assessment can be completed in either fall or spring semester of senior year.   |                                     |     |
| **An Advanced Psychology Lab will be required for the Psychology major. Students must have already taken a corresponding lecture, and all core major requirements prior to taking the lab. Students must work closely with their major advisor to plan effectively for this requirement and to discuss the best options for their interests and future plans. |                                     |     |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| Credits              |  | 12-13          |
|----------------------|--|----------------|
| <b>Total Credits</b> |  | <b>120-121</b> |

**Adding an optional concentration to the BS:** Students should work with their Psychology advisor(s) if they would like to add a concentration to this plan.

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Applied Behavior Analysis Psychology, Bachelor of Science with a Concentration in Applied Behavior Analysis Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                             |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY         |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE |           |



**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Psychology Major with a Concentration in Applied Behavior Analysis - 38+ Hours Required****Required Coursework 23**

The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.

|              |  |
|--------------|--|
| PSYC 1010    | INTRODUCTION TO PSYCHOLOGY I (**)          |
| PSYC 1020    | INTRODUCTION TO PSYCHOLOGY II (^)          |
| PSYC 2000    | CAREER PATHS IN PSYCHOLOGY (^)             |
| PSYC 2040    | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY  |
| PSYC 3130    | STATISTICS FOR THE BEHAVIORAL SCIENCES (^) |
| or STAT 3000 | STATISTICAL METHODS I                      |
| PSYC 3140    | RESEARCH METHODS IN PSYCHOLOGY (^)         |
| PSYC 4020    | LEARNING (^)                               |
| PSYC 4570    | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)    |
| PSYC 4890    | SENIOR ASSESSMENT IN PSYCHOLOGY (^)        |

**Select two 3 or 4-credit (PSYC) Psychology courses from the following Applied Behavior Analysis classes 6-7**

|           |  |
|-----------|--|
| PSYC 3150 | SMALL-N RESEARCH METHODS (^)                 |
| PSYC 4030 | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)          |
| PSYC 4350 | BASIC/EXPERIMENTAL BEHAVIOR ANALYSIS (^)     |
| PSYC 4414 | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)  |
| PSYC 4810 | PRACTICE AND ETHICS IN BEHAVIOR ANALYSIS (^) |
| PSYC 4970 | PRACTICUM IN PSYCHOLOGY (^)                  |

**Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Courses taken for the concentration can be applied toward this requirement. See an advisor to plan accordingly. 12****Applied Psychology**

|           |   |
|-----------|---|
| PSYC 3510 | EDUCATIONAL PSYCHOLOGY (^)                |
| PSYC 4020 | LEARNING (^)                              |
| PSYC 4310 | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^) |
| PSYC 4510 | PSYCHOLOGY IN THE SCHOOLS (^)             |
| PSYC 4560 | FORENSIC PSYCHOLOGY (^)                   |
| PSYC 4630 | ORGANIZATIONAL PSYCHOLOGY (^)             |
| PSYC 4640 | PERSONNEL PSYCHOLOGY (^)                  |

**Social/Personality/Developmental Psychology**

|                |   |
|----------------|---|
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                         |
| PSYC 3520      | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540      | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4450      | PERSONALITY THEORIES (^)                      |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |

**Mental Health**

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

**Cognitive Neuroscience**

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)   |

**Additional Perspectives**

|                |   |
|----------------|---|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)                        |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)                     |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)           |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)                      |
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (** ^)            |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

**Select one 3-credit Psychology Laboratory course at the 4000 Level. Course taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly. 3**

|           |  |
|-----------|--|
| PSYC 4024 | LABORATORY IN PSYCHOLOGY: LEARNING (^) |
|-----------|--|

|  |   |               |
|--|---|---------------|
| PSYC 4074  | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |               |
| PSYC 4234  | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |               |
| PSYC/BIOL 4280   | ANIMAL BEHAVIOR LABORATORY (^)                                    |               |
| PSYC 4414  | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |               |
| PSYC 4544  | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |               |
| PSYC 4644  | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |               |
| PSYC 4990  | SENIOR THESIS (S^) <sup>2</sup>                                   |               |
| <b>Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.</b>   |   | <b>6</b>      |
| <b>College Breadth (choose one option)</b>   |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours  |   |               |
| Option 2: Additional General Education Requirements - 18+ hours  |   |               |
| Additional quantitative literacy - 3 hours   |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours   |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours   |   |               |
| HIST 1000 and HIST 1010 - 6 hours  |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)  |   |               |
| <b>Bachelor Science Cognate Requirement</b>  |   | <b>15</b>     |
| Students pursuing a BS in psychology must complete 15 credit hours of a cognate set of courses. Students will select one of the five cognate sets below. Course selection must include at least two different departments or programs. No more than 6 hours of courses may be at the 1000 level, with the remaining 9 hours taken at the 2000 level or above. Students may take a minor in place of the cognate under the following circumstances:<br>1) Students pursuing Option 1 College Requirements, which requires a minor, must take a second minor to satisfy the cognate requirement; OR 2) Students pursuing Option 2 College Requirements, which require additional general education courses, may add a minor to satisfy the cognate requirement |   |               |
| <b>Advocacy, Ethics, Social Justice &amp; Law</b>  |   |               |
| BSAD 3600  | BUSINESS ETHICS (^)   |               |
| CMST 1110  | PUBLIC SPEAKING FUNDS (**)  |               |
| CMST 2120  | ARGUMENTATION AND DEBATE (**)                                     |               |
| CRCJ 1010  | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)                      |               |
| CRCJ 3310  | CRIMINAL LAW (^)  |               |
| CRCJ 3380  | POWER, PERCEPTION, AND PUNISHMENT (** ^)                          |               |
| CRCJ 3390  | WOMEN, CRIME AND JUSTICE (** ^)                                   |               |
| GEOG/ENVN/BIOL 4820  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)               |               |
| HIST 4340  | U.S. CONSTITUTIONAL HISTORY SINCE 1860 (^)                        |               |
| PHIL 1210  | CRITICAL REASONING (**)   |               |
| PHIL 2030  | INTRODUCTION TO ETHICS (**)                                       |               |
| PHIL 3040  | PHILOSOPHY OF LAW (^)   |               |

|   |   |
|---|---|
| PSCI 1100                                       | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)         |
| PSCI 2110                                       | INTRODUCTION TO PUBLIC POLICY (**)                        |
| PSCI 2180                                       | INTRODUCTION TO LAW (**)                                  |
| PSCI 4140                                       | CONSTITUTIONAL LAW: CIVIL RIGHTS                          |
| PSCI 4190                                       | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)                   |
| RELU 3460                                       | REAL ESTATE LAW (^)                                       |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (**)                               |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (**)                        |
| SOC 4740  | SOCIAL JUSTICE AND SOCIAL CHANGE (** ^)                   |
| <b>Artistic and Literary Perspectives</b>       |   |
| ART 1010  | ART APPRECIATION (** ^)                                   |
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850 (^)                    |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                      |
| BLST 2510                                       | MUSIC AND THE BLACK EXPERIENCE (**)                       |
| ENGL 2110                                       | INTRODUCTION TO CREATIVE NONFICTION WRITING (**)          |
| ENGL 2280                                       | INTRODUCTION TO LANGUAGE (** ^)                           |
| ENGL 2310                                       | INTRODUCTION TO BRITISH LITERATURE I (** ^)               |
| ENGL 2320                                       | INTRODUCTION TO BRITISH LITERATURE II (** ^)              |
| ENGL 2450                                       | AMERICAN LITERATURE I (** ^)                              |
| ENGL 2460                                       | AMERICAN LITERATURE II (** ^)                             |
| ENGL 3130                                       | AMERICAN NONFICTION (** ^)                                |
| JMC 3700  | VISUAL COMMUNICATION AND CULTURE (** ^)                   |
| PHIL 3060                                       | VALUES AND VIRTUES  |
| PHIL 3220                                       | PHILOSOPHY OF ART (^)                                     |
| KINS 3110                                       | INTRODUCTION TO DANCE                                     |
| RELI 1010                                       | RELIGIONS OF THE WORLD (**)                               |
| RELI 2010                                       | RELIGION AND CRITICAL THOUGHT                             |
| THEA 1050                                       | FILM HISTORY AND APPRECIATION (**)                        |
| THEA 3760                                       | THEATRE HISTORY AND LITERATURE: MODERN / 1850-2000        |
| WRWS 3500                                       | CREATIVE WRITING FOR THE ARTS (** ^)                      |
| <b>Global Culture &amp; Diverse Populations</b> |   |
| ART 1040  | GLOBAL INDIGENOUS ART (**)                                |
| BLST 1000                                       | INTRODUCTION TO BLACK STUDIES (**)                        |
| BLST 2420                                       | AFRICAN-AMERICAN HISTORY II: 1865-1954 (**)               |
| BLST 2430                                       | AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY (**)       |
| CMST 4570                                       | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (** ^ ^) |
| CMST 4580                                       | COMMUNICATING RACE, ETHNICITY & IDENTITY (** ^)           |
| CRCJ 3380                                       | POWER, PERCEPTION, AND PUNISHMENT (** ^)                  |
| CRCJ 4750                                       | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^)     |
| ENGL 2230                                       | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)       |
| ENGL 2260                                       | BLACK SHORT STORY (** ^)                                  |
| ENGL 2470                                       | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)               |

|           |   |
|-----------|---|
| ENGL 2490 | LATINO/A LITERATURE (** ^)                                    |
| ENGL 3280 | IRISH LITERATURE I (** ^)                                     |
| ENGL 3290 | IRISH LITERATURE II (** ^)                                    |
| EMGT 1150 | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES (**) |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION (**)                           |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD (**)                            |
| PHHB 4650 | GLOBAL HEALTH (**)  |
| RELI 2020 | RELIGION AND HUMAN RIGHTS (**)                                |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)                          |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)                  |
| SOWK 2120 | RACE, CLASS AND GENDER IN THE UNITED STATES (**)              |
| SPED 1500 | INTRODUCTION TO SPECIAL EDUCATION (** ^)                      |

**Health and Science Explorations**

|                |  |
|----------------|--|
| BIOL 1060      | INTRODUCTION TO MEDICAL CAREERS & ETHICS       |
| BIOL 1450      | BIOLOGY I (** ^)                               |
| BIOL 1750      | BIOLOGY II (^)                                 |
| BIOL 2060      | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^) |
| BIOL 2140      | GENETICS (^)                                   |
| BIOL 3240      | INTRODUCTION TO IMMUNOLOGY (^)                 |
| BIOL 4890      | GENES, BRAIN, AND BEHAVIOR (^)                 |
| CMST 3750      | GENDER AND COMMUNICATION (** ^)                |
| CMST 4220      | HEALTH COMMUNICATION (^)                       |
| GERO 2000      | INTRODUCTION TO GERONTOLOGY (**)               |
| GERO/BIOL 3500 | BIOLOGICAL PRINCIPLES OF AGING (^)             |
| GERO 4550      | HEALTH ASPECTS OF AGING                        |
| PHHB 1500      | FOUNDATIONS IN PUBLIC HEALTH (**)              |
| PHHB 2310      | HEALTHFUL LIVING                               |
| PHHB 4700      | WOMEN'S HEALTH AND ISSUES OF DIVERSITY (**)    |
| PHHB 4880      | PUBLIC HEALTH POLICY (^)                       |
| PHHB 4950      | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)      |
| NEUR 1520      | INTRODUCTION TO NEUROSCIENCE I (^)             |
| NEUR 1540      | INTRODUCTION TO NEUROSCIENCE II (^)            |
| PHIL 2300      | BIOMEDICAL ETHICS                              |
| PHIL 3400      | PHILOSOPHY OF NATURAL SCIENCE (^)              |
| PHIL 4220      | NEUROETHICS (^)                                |
| RELI 2500      | SPIRITUALITY AND WELLNESS (^)                  |

**May choose only 1 of the following MATH courses:**

|           |  |
|-----------|--|
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1940 | CALCULUS FOR BIOMEDICINE (^)                               |
| MATH 1950 | CALCULUS I (^)   |

**Work Technology & Communication**

|           |                                    |
|-----------|------------------------------------|
| CMST 2010 | INTERPERSONAL COMMUNICATION (**)   |
| CMST 4220 | HEALTH COMMUNICATION (^)           |
| CSCI 1200 | COMPUTER SCIENCE PRINCIPLES (** ^) |
| CSCI 4260 | USER EXPERIENCE DESIGN (^)         |

|           |  |
|-----------|--|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO) (** ^) |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) (** ^) |
| ECON 4340 | ECONOMICS OF TECHNOLOGY (^)            |
| ENGL 3050 | WRITING FOR THE WORKPLACE (^)          |
| ENGL 4830 | TECHNICAL COMMUNICATION (^)            |
| MGMT 1500 | INTRODUCTION TO BUSINESS (**)          |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS (^)     |
| MGMT 4090 | MANAGING COLLABORATIVE ENGAGEMENT (^)  |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)            |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)             |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)          |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY (^)   |
| SOC 3800  | WORK AND SOCIETY (^)                   |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Cognitive Science

### Psychology, Bachelor of Science with a Concentration in Cognitive Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### **MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **Psychology Major with a Concentration in Cognitive Science - 38+ Hours Required**

#### **Required Coursework 20**

The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.

PSYC 1010 INTRODUCTION TO PSYCHOLOGY I (\*\*)

PSYC 1020 INTRODUCTION TO PSYCHOLOGY II (^)

PSYC 2000 CAREER PATHS IN PSYCHOLOGY (^)

PSYC 2040 EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^)

PSYC 3130 STATISTICS FOR THE BEHAVIORAL SCIENCES (^)

or STAT 3000 STATISTICAL METHODS I

PSYC 3140 RESEARCH METHODS IN PSYCHOLOGY (^)

PSYC 4070 COGNITIVE PSYCHOLOGY (^)

or PSYC 4090 COGNITIVE NEUROSCIENCE

PSYC 4890 SENIOR ASSESSMENT IN PSYCHOLOGY (^)

#### **Select three 3-credit (PSYC) Psychology courses from Cognitive Science Concentration 9**

PSYC/PHIL 3650 PHILOSOPHY OF MIND (^)

PSYC 4210 SENSATION AND PERCEPTION (^)

PSYC 4230 BEHAVIORAL NEUROSCIENCE (^)

PSYC/PHIL 4250 LIMITS OF CONSCIOUSNESS (^)

PSYC 4520 PSYCHOLOGY OF LANGUAGE (^)

PHIL 3650 PHILOSOPHY OF MIND (^)

PHIL 4610 PHILOSOPHY OF LANGUAGE (^)

ENGL 3610 INTRODUCTION TO LINGUISTICS (\*\* ^)

#### **Select four 3-credit (PSYC) Psychology courses from four of the five areas below; Courses taken for this concentration can be used to help satisfy this requirement. See an advisor to plan accordingly. 12**

##### **Applied Psychology**

PSYC 3510 EDUCATIONAL PSYCHOLOGY (^)

PSYC 4020 LEARNING (^)

PSYC 4310 PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)

PSYC 4510 PSYCHOLOGY IN THE SCHOOLS (^)

PSYC 4560 FORENSIC PSYCHOLOGY (^)

PSYC 4630 ORGANIZATIONAL PSYCHOLOGY (^)

PSYC 4640 PERSONNEL PSYCHOLOGY (^)

##### **Social/Personality/Developmental Psychology**

PSYC/SOC 3450 SOCIAL PSYCHOLOGY (^)

PSYC 3520 CHILD PSYCHOLOGY (^)

PSYC 3540 ADOLESCENT PSYCHOLOGY (^)

PSYC 4450 PERSONALITY THEORIES (^)

PSYC/GERO 4460 PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)

##### **Mental Health**

PSYC 3410 CLINICAL PSYCHOLOGY (^)

PSYC 3430 PERSONALITY AND ADJUSTMENT (^)

PSYC 4440 ABNORMAL PSYCHOLOGY (^)

PSYC/GERO 4470 MENTAL HEALTH AND AGING (^)

PSYC 4570 BEHAVIOR ANALYSIS AND INTERVENTIONS (^)

PSYC 4590 PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)

PSYC 4800 LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^)

##### **Cognitive Neuroscience**

PSYC 4070 COGNITIVE PSYCHOLOGY (^)

PSYC 4090 COGNITIVE NEUROSCIENCE (^)

PSYC 4210 SENSATION AND PERCEPTION (^)

PSYC 4230 BEHAVIORAL NEUROSCIENCE (^)

PSYC 4230 BEHAVIORAL NEUROSCIENCE (^)

PSYC/BIOL 4270 ANIMAL BEHAVIOR (^)

PSYC/BIOL 4320 HORMONES & BEHAVIOR (^)

PSYC 4520 PSYCHOLOGY OF LANGUAGE (^)

##### **Additional Perspectives**

PSYC/PHIL 3650 PHILOSOPHY OF MIND (^)

PSYC 4010 HISTORY OF PSYCHOLOGY (^)

PSYC 4030 CONCEPTUAL ANALYSIS OF BEHAVIOR (^)

PSYC/PSCI 4110 POLITICAL PSYCHOLOGY (^)

PSYC/BLST 4150 AFRICAN AMERICAN PSYCHOLOGY (^)

PSYC/PHIL 4250 LIMITS OF CONSCIOUSNESS (^)

PSYC 4680 POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)

PSYC 4960 INDEPENDENT STUDY IN PSYCHOLOGY (^)

PSYC 4990 SENIOR THESIS (^)

#### **Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level 3**

PSYC 4024 LABORATORY IN PSYCHOLOGY: LEARNING (^)

PSYC 4074 LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^)

PSYC 4234 LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)

PSYC/BIOL 4280 ANIMAL BEHAVIOR LABORATORY (^)

PSYC 4414 LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)

PSYC 4544 LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)

PSYC 4644 LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)

PSYC 4990 SENIOR THESIS (^)

#### **Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly. 6**

#### **College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

### Bachelor Science Cognate Requirement

15

Students pursuing a BS in psychology must complete 15 credit hours of a cognate set of courses. Students will select one of the five cognate sets below. Course selection must include at least two different departments or programs. No more than 6 hours of courses may be at the 1000 level, with the remaining 9 hours taken at the 2000 level or above. Students may take a minor in place of the cognate under the following circumstances:

1) Students pursuing Option 1 College Requirements, which requires a minor, must take a second minor to satisfy the cognate requirement; OR 2) Students pursuing Option 2 College Requirements, which require additional general education courses, may add a minor to satisfy the cognate requirement.

### Advocacy, Ethics, Social Justice & Law

BSAD 3600 BUSINESS ETHICS (^)

CMST 1110 PUBLIC SPEAKING FUNDS (\*\*)

CMST 2120 ARGUMENTATION AND DEBATE (\*\*)

CRCJ 1010 CRIME TO COURTROOM: THE JUSTICE JOURNEY (\*\*)

CRCJ 3310 CRIMINAL LAW (^)

CRCJ 3380 RACE, ETHNICITY, AND CRIMINAL JUSTICE (\*\* ^)

CRCJ 3390 WOMEN, CRIME AND JUSTICE (\*\* ^)

GEOG 4820 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)

HIST 4340 U.S. CONSTITUTIONAL HISTORY SINCE 1860 (^)

PHIL 1210 CRITICAL REASONING (\*\*)

PHIL 2030 INTRODUCTION TO ETHICS (\*\*)

PHIL 3040 PHILOSOPHY OF LAW (^)

PSCI 1100 INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (\*\*)

PSCI 2110 INTRODUCTION TO PUBLIC POLICY (\*\*)

PSCI 2180 INTRODUCTION TO LAW (\*\*)

PSCI 4140 CONSTITUTIONAL LAW: CIVIL RIGHTS

PSCI 4190 CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)

RELU 3460 REAL ESTATE LAW (^)

SOC 1010 INTRODUCTORY SOCIOLOGY (\*\*)

SOC 3700 INTRODUCTION TO LGBTQ STUDIES (\*\*)

SOC 4740 SOCIAL JUSTICE AND SOCIAL CHANGE (^)

### Artistic and Literary Perspectives

ART 1010 ART APPRECIATION (\*\* ^)

ART 3780 HISTORY OF ARCHITECTURE SINCE 1850 (^)

ART 3870 GENDER & SEXUALITY IN MODERN ART (^)

BLST 2510 MUSIC AND THE BLACK EXPERIENCE (\*\*)

ENGL 2110 INTRODUCTION TO CREATIVE NONFICTION WRITING (\*\*)

ENGL 2280 INTRODUCTION TO LANGUAGE (\*\* ^)

ENGL 2310 INTRODUCTION TO BRITISH LITERATURE I (\*\* ^)

ENGL 2320 INTRODUCTION TO BRITISH LITERATURE II (\*\* ^)

ENGL 2450 AMERICAN LITERATURE I (\*\* ^)

ENGL 2460 AMERICAN LITERATURE II (^)

ENGL 3130 AMERICAN NONFICTION (\*\* ^)

JMC 3700 VISUAL COMMUNICATION AND CULTURE (\*\* ^)

PHIL 3060 VALUES AND VIRTUES

PHIL 3220 PHILOSOPHY OF ART (^)

KINS 3110 INTRODUCTION TO DANCE

RELI 1010 RELIGIONS OF THE WORLD (\*\*)

RELI 2010 RELIGION AND CRITICAL THOUGHT

THEA 1050 FILM HISTORY AND APPRECIATION (\*\*)

THEA 3760 THEATRE HISTORY AND LITERATURE:MODERN / 1850-2000 (^)

WRWS 3500 CREATIVE WRITING FOR THE ARTS (\*\* ^)

### Global Culture and Diverse Populations

ART 1040 GLOBAL INDIGENOUS ART (\*\*)

BLST 1000 INTRODUCTION TO BLACK STUDIES (\*\*)

BLST 2420 AFRICAN-AMERICAN HISTORY II: 1865-1954 (\*\*)

BLST 2430 AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY (\*\* ^)

CMST 4570 INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (\*\* ^)

CMST 4580 COMMUNICATING RACE, ETHNICITY & IDENTITY (\*\* ^)

CRCJ 3380 RACE, ETHNICITY, AND CRIMINAL JUSTICE (\*\* ^)

CRCJ 4750 INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (\*\* ^)

ENGL 2230 SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (\*\* ^)

ENGL 2260 BLACK SHORT STORY (\*\* ^)

ENGL 2470 SURVEY OF NATIVE AMERICAN LITERATURE (\*\* ^)

ENGL 2490 LATINO/A LITERATURE (^)

ENGL 3280 IRISH LITERATURE I (\*\* ^)

ENGL 3290 IRISH LITERATURE II (\*\* ^)

EMGT 1150 INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES (\*\*)

LLS 1000 LATIN AMERICA: AN INTRODUCTION (\*\*)

MUS 1080 MUSIC OF THE PEOPLE:THE WORLD (\*\*)

PHHB 4650 GLOBAL HEALTH (\*\*)

RELI 2020 RELIGION AND HUMAN RIGHTS (\*\*)

SOC 3700 INTRODUCTION TO LGBTQ STUDIES (\*\* ^)

SOC 3900 RACE AND ETHNIC RELATIONS IN THE U.S. (\*\* ^)



|   |  |
|---|--|
| SOWK 2120   | RACE, CLASS AND GENDER IN THE UNITED STATES (**)           |
| SPED 1500   | INTRODUCTION TO SPECIAL EDUCATION (** ^)                   |
| <b>Health and Science Explorations</b>                  |  |
| BIOL 1060   | INTRODUCTION TO MEDICAL CAREERS & ETHICS                   |
| BIOL 1450   | BIOLOGY I (** ^)   |
| BIOL 1750   | BIOLOGY II (^)   |
| BIOL 2060   | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^)             |
| BIOL 2140   | GENETICS (^)   |
| BIOL 3240   | INTRODUCTION TO IMMUNOLOGY (^)                             |
| BIOL 4890   | GENES, BRAIN, AND BEHAVIOR (^)                             |
| CMST 3750   | GENDER AND COMMUNICATION (** ^)                            |
| CMST 4220   | HEALTH COMMUNICATION (^)                                   |
| GERO 2000   | INTRODUCTION TO GERONTOLOGY (**)                           |
| GERO/BIOL 3500  | BIOLOGICAL PRINCIPLES OF AGING (^)                         |
| GERO 4550   | HEALTH ASPECTS OF AGING                                    |
| PHHB 1500   | FOUNDATIONS IN PUBLIC HEALTH (**)                          |
| PHHB 2310   | HEALTHFUL LIVING   |
| PHHB 4700   | WOMEN'S HEALTH AND ISSUES OF DIVERSITY (**)                |
| PHHB 4880   | PUBLIC HEALTH POLICY (^)                                   |
| PHHB 4950   | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)                  |
| NEUR 1520   | INTRODUCTION TO NEUROSCIENCE I (^)                         |
| NEUR 1540   | INTRODUCTION TO NEUROSCIENCE II (^)                        |
| PHIL 2300   | BIOMEDICAL ETHICS  |
| PHIL 3400   | PHILOSOPHY OF NATURAL SCIENCE (^)                          |
| PHIL 4220   | NEUROETHICS (^)  |
| RELI 2500   | SPIRITUALITY AND WELLNESS (^)                              |
| <b>May choose only 1 of the following MATH courses:</b> |  |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1940   | CALCULUS FOR BIOMEDICINE (^)                               |
| MATH 1950   | CALCULUS I (^)   |
| <b>Work Technology &amp; Communication</b>              |  |
| CMST 2010   | INTERPERSONAL COMMUNICATION (**)                           |
| CMST 4220   | HEALTH COMMUNICATION                                       |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES (** ^)                         |
| CSCI 4260   | USER EXPERIENCE DESIGN (^)                                 |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |
| ECON 4340   | ECONOMICS OF TECHNOLOGY (^)                                |
| ENGL 3050   | WRITING FOR THE WORKPLACE (^)                              |
| ENGL 4830   | TECHNICAL COMMUNICATION (^)                                |
| MGMT 1500   | INTRODUCTION TO BUSINESS (**)                              |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |
| MGMT 4090   | MANAGING COLLABORATIVE ENGAGEMENT (^)                      |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)                                 |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)                              |

|          |                                      |
|----------|--------------------------------------|
| SOC 3610 | APPLIED ORGANIZATIONAL SOCIOLOGY (^) |
| SOC 3800 | WORK AND SOCIETY (^)                 |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

- <sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.
- <sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Developmental Psychology

### Psychology, Bachelor of Science with a Concentration in Developmental Psychology Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |



**Psychology Major with a Concentration in Developmental Psychology - 38+ Hours Required****Required Coursework 23**

The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.

|              |  |
|--------------|--|
| PSYC 1010    | INTRODUCTION TO PSYCHOLOGY I (**)          |
| PSYC 1020    | INTRODUCTION TO PSYCHOLOGY II (^)          |
| PSYC 2000    | CAREER PATHS IN PSYCHOLOGY (^)             |
| PSYC 2040    | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY  |
| PSYC 3130    | STATISTICS FOR THE BEHAVIORAL SCIENCES (^) |
| or STAT 3000 | STATISTICAL METHODS I                      |
| PSYC 3140    | RESEARCH METHODS IN PSYCHOLOGY (^)         |
| PSYC 3520    | CHILD PSYCHOLOGY (^)                       |
| PSYC 3540    | ADOLESCENT PSYCHOLOGY (^)                  |
| PSYC 4890    | SENIOR ASSESSMENT IN PSYCHOLOGY (^)        |

**Select two 3-credit (PSYC) Developmental Psychology Concentration courses From below 6**

|           |  |
|-----------|--|
| PSYC 2500 | LIFESPAN PSYCHOLOGY (^)  |
| PSYC 3510 | EDUCATIONAL PSYCHOLOGY (^)   |
| PSYC 4090 | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4230 | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC 4520 | PSYCHOLOGY OF LANGUAGE (^)   |
| PSYC 4544 | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                                 |
| PSYC 4590 | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)                                     |
| PSYC 4930 | SPECIAL TOPICS IN PSYCHOLOGY (^ When topic is Developmental Psychology)    |
| PSYC 4960 | INDEPENDENT STUDY IN PSYCHOLOGY (^ When topic is Developmental Psychology) |
| PSYC 4990 | SENIOR THESIS (^ When topic is Developmental Psychology)                   |

**Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly. 12****Applied Psychology**

|           |   |
|-----------|---|
| PSYC 3510 | EDUCATIONAL PSYCHOLOGY (^)                |
| PSYC 4020 | LEARNING (^)                              |
| PSYC 4310 | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^) |
| PSYC 4510 | PSYCHOLOGY IN THE SCHOOLS (^)             |
| PSYC 4560 | FORENSIC PSYCHOLOGY (^)                   |
| PSYC 4630 | ORGANIZATIONAL PSYCHOLOGY (^)             |
| PSYC 4640 | PERSONNEL PSYCHOLOGY (^)                  |

**Social/Personality/Developmental Psychology**

|                |   |
|----------------|---|
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                         |
| PSYC 3520      | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540      | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4450      | PERSONALITY THEORIES (^)                      |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |

**Mental Health**

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS              |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

**Cognitive Neuroscience**

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)   |

**Additional Perspectives**

|                |   |
|----------------|---|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)                        |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)                     |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)           |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)                      |
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (** ^)            |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

**Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level; course taken for the selected concentration may be used to satisfy this requirement 3**

|                |   |
|----------------|---|
| PSYC 4024      | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074      | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414      | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544      | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |
| PSYC 4644      | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990      | SENIOR THESIS (^) <sup>2</sup>                                    |

**Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly. 6****College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

|   |   |
|---|---|
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |   |
| HIST 1000 and HIST 1010 - 6 hours   |   |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours  |   |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)   |   |
| <b>Bachelor Science Cognate Requirement</b>   | <b>15</b>   |
| Students pursuing a BS in psychology must complete 15 credit hours of a cognate set of courses. Students will select one of the five cognate sets below. Course selection must include at least two different departments or programs. No more than 6 hours of courses may be at the 1000 level, with the remaining 9 hours taken at the 2000 level or above. Students may take a minor in place of the cognate under the following circumstances:<br>1) Students pursuing Option 1 College Requirements, which requires a minor, must take a second minor to satisfy the cognate requirement; OR 2) Students pursuing Option 2 College Requirements, which require additional general education courses, may add a minor to satisfy the cognate requirement. |   |
| <b>Advocacy, Ethics, Social Justice &amp; Law</b>   |   |
| BSAD 3600   | BUSINESS ETHICS (^)                                 |
| CMST 1110   | PUBLIC SPEAKING FUNDS                               |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                       |
| CMST 2120   | ARGUMENTATION AND DEBATE                            |
| CRCJ 1010   | CRIME TO COURTROOM: THE JUSTICE JOURNEY             |
| CRCJ 3310   | CRIMINAL LAW (^)                                    |
| CRCJ 3380   | POWER, PERCEPTION, AND PUNISHMENT (^)               |
| CRCJ 3390   | WOMEN, CRIME AND JUSTICE (^)                        |
| GEOG/ENVN/BIOL 4820   | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |
| HIST 4340   | U.S. CONSTITUTIONAL HISTORY SINCE 1860 (^)          |
| PHIL 1210   | CRITICAL REASONING                                  |
| PHIL 2030   | INTRODUCTION TO ETHICS                              |
| PHIL 3040   | PHILOSOPHY OF LAW (^)                               |
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT        |
| PSCI 2110   | INTRODUCTION TO PUBLIC POLICY                       |
| PSCI 2180   | INTRODUCTION TO LAW                                 |
| PSCI 4140   | CONSTITUTIONAL LAW: CIVIL RIGHTS (^)                |
| PSCI 4190   | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)             |
| RELU 3460   | REAL ESTATE LAW (^)                                 |
| SOC 1010  | INTRODUCTORY SOCIOLOGY                              |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (^)                   |
| SOC 4740  | SOCIAL JUSTICE AND SOCIAL CHANGE (^)                |
| <b>Artistic and Literary Perspectives</b>   |   |
| ART 1010  | ART APPRECIATION (^)                                |
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850 (^)              |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                |
| BLST 2510   | MUSIC AND THE BLACK EXPERIENCE                      |
| ENGL 2110   | INTRODUCTION TO CREATIVE NONFICTION WRITING (^)     |
| ENGL 2280   | INTRODUCTION TO LANGUAGE (^)                        |

|   |  |
|---|--|
| ENGL 2310                                       | INTRODUCTION TO BRITISH LITERATURE I (^)                 |
| ENGL 2320                                       | INTRODUCTION TO BRITISH LITERATURE II (^)                |
| ENGL 2450                                       | AMERICAN LITERATURE I (^)                                |
| ENGL 2460                                       | AMERICAN LITERATURE II (^)                               |
| ENGL 3130                                       | AMERICAN NONFICTION (^)                                  |
| JMC 3700  | VISUAL COMMUNICATION AND CULTURE (^)                     |
| PHIL 3060                                       | VALUES AND VIRTUES                                       |
| PHIL 3220                                       | PHILOSOPHY OF ART (^)                                    |
| KINS 3110                                       | INTRODUCTION TO DANCE                                    |
| RELI 1010                                       | RELIGIONS OF THE WORLD                                   |
| RELI 2010                                       | RELIGION AND CRITICAL THOUGHT (^)                        |
| THEA 1050                                       | FILM HISTORY AND APPRECIATION                            |
| THEA 3760                                       | THEATRE HISTORY AND LITERATURE:MODERN / 1850-2000 (^)    |
| WRWS 3500                                       | CREATIVE WRITING FOR THE ARTS (^)                        |
| <b>Global Culture &amp; Diverse Populations</b> |  |
| ART 1040  | GLOBAL INDIGENOUS ART                                    |
| BLST 1000                                       | INTRODUCTION TO BLACK STUDIES                            |
| BLST 2420                                       | AFRICAN-AMERICAN HISTORY II: 1865-1954                   |
| BLST 2430                                       | AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY           |
| CMST 4570                                       | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (^)     |
| CMST 4580                                       | COMMUNICATING RACE, ETHNICITY & IDENTITY (^)             |
| CRCJ 3380                                       | POWER, PERCEPTION, AND PUNISHMENT (^)                    |
| CRCJ 4750                                       | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (^)       |
| ENGL 2230                                       | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (^)         |
| ENGL 2260                                       | BLACK SHORT STORY (^)                                    |
| ENGL 2470                                       | SURVEY OF NATIVE AMERICAN LITERATURE (^)                 |
| ENGL 2490                                       | LATINO/A LITERATURE (^)                                  |
| ENGL 3280                                       | IRISH LITERATURE I (^)                                   |
| ENGL 3290                                       | IRISH LITERATURE II (^)                                  |
| EMGT 1150                                       | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION                           |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD                            |
| PHHB 4650                                       | GLOBAL HEALTH  |
| RELI 2020                                       | RELIGION AND HUMAN RIGHTS                                |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (^)                        |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (^)                |
| SOWK 2120                                       | RACE, CLASS AND GENDER IN THE UNITED STATES              |
| SPED 1500                                       | INTRODUCTION TO SPECIAL EDUCATION (^)                    |
| <b>Health and Science Explorations</b>          |  |
| BIOL 1060                                       | INTRODUCTION TO MEDICAL CAREERS & ETHICS                 |
| BIOL 1450                                       | BIOLOGY I (** ^)   |
| BIOL 1750                                       | BIOLOGY II (^)   |

|   |  |
|---|--|
| BIOL 2060   | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^)             |
| BIOL 2140   | GENETICS (^)   |
| BIOL 3240   | INTRODUCTION TO IMMUNOLOGY (^)                             |
| BIOL 4890   | GENES, BRAIN, AND BEHAVIOR (^)                             |
| CMST 3750   | GENDER AND COMMUNICATION (^)                               |
| CMST 4220   | HEALTH COMMUNICATION (^)                                   |
| GERO 2000   | INTRODUCTION TO GERONTOLOGY                                |
| GERO/BIOL 3500  | BIOLOGICAL PRINCIPLES OF AGING (^)                         |
| GERO 4550   | HEALTH ASPECTS OF AGING                                    |
| PHHB 1500   | FOUNDATIONS IN PUBLIC HEALTH                               |
| PHHB 2310   | HEALTHFUL LIVING   |
| PHHB 4700   | WOMEN'S HEALTH AND ISSUES OF DIVERSITY                     |
| PHHB 4880   | PUBLIC HEALTH POLICY (^)                                   |
| PHHB 4950   | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)                  |
| NEUR 1520   | INTRODUCTION TO NEUROSCIENCE I (^)                         |
| NEUR 1540   | INTRODUCTION TO NEUROSCIENCE II (^)                        |
| PHIL 2300   | BIOMEDICAL ETHICS  |
| PHIL 3400   | PHILOSOPHY OF NATURAL SCIENCE (^)                          |
| PHIL 4220   | NEUROETHICS (^)  |
| RELI 2500   | SPIRITUALITY AND WELLNESS (^)                              |
| <b>May choose only 1 of the following MATH courses:</b> |  |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1940   | CALCULUS FOR BIOMEDICINE (^)                               |
| MATH 1950   | CALCULUS I (^)   |
| <b>Work Technology &amp; Communication</b>              |  |
| CMST 2010   | INTERPERSONAL COMMUNICATION                                |
| CMST 4220   | HEALTH COMMUNICATION (^)                                   |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES (^)                            |
| CSCI 4260   | USER EXPERIENCE DESIGN (^)                                 |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (^)                        |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (^)                        |
| ECON 4340   | ECONOMICS OF TECHNOLOGY (^)                                |
| ENGL 3050   | WRITING FOR THE WORKPLACE (^)                              |
| ENGL 4830   | TECHNICAL COMMUNICATION (^)                                |
| MGMT 1500   | INTRODUCTION TO BUSINESS                                   |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |
| MGMT 4090   | MANAGING COLLABORATIVE ENGAGEMENT (^)                      |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)                                 |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (^)                                 |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY (^)                       |
| SOC 3800  | WORK AND SOCIETY (^)                                       |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (second 3 of 6 credit hours). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Forensic Psychology

### Psychology, Bachelor of Science with a Concentration in Forensic Psychology Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>  |   |           |
| Minimum of "C-" required   |   |           |
| <b>Fundamental Skills</b>  |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>  |   |           |
| ENGL 1150  | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>   |   |           |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120   | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>  |   |           |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130   | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140   | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>  |   |           |
| Select one from the following:   |   |           |
| STAT 1100  | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530  | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.          |   |           |
| <b>Breadth of Knowledge</b>  |   | <b>13</b> |
| Social Science – 3 hrs.  |   |           |
| Humanities – 3 hrs.  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |           |
| Arts – 3 hrs.  |   |           |
| <b>Individual and Social Responsibility</b>  |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |           |
| Civic Knowledge and Engagement – 3 hrs.  |   |           |
| <b>MAJOR REQUIREMENTS</b>  |   |           |
| **Course will satisfy UNO's General Education requirement  |   |           |
| ^Course requires pre-requisite(s)  |   |           |
| <b>Psychology Major with a Concentration in Forensic Psychology - 38+ Hours Required</b>   |   |           |
| <b>Required Coursework</b>   |   | <b>29</b> |
| The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes. |   |           |
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I (**)                       |           |
| PSYC 1020  | INTRODUCTION TO PSYCHOLOGY II (^)                       |           |
| PSYC 2000  | CAREER PATHS IN PSYCHOLOGY (^)                          |           |
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^)           |           |

|               |  |
|---------------|--|
| PSYC 3130     | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)         |
| or STAT 3000  | STATISTICAL METHODS I                              |
| PSYC 3140     | RESEARCH METHODS IN PSYCHOLOGY (^)                 |
| PSYC/SOC 3450 | SOCIAL PSYCHOLOGY (^)                              |
| PSYC 4440     | ABNORMAL PSYCHOLOGY (^)                            |
| PSYC 4560     | FORENSIC PSYCHOLOGY (* ^)                          |
| PSYC 4800     | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (* ^) |
| PSYC 4890     | SENIOR ASSESSMENT IN PSYCHOLOGY (^)                |

\*Check with advisor to see if either PSYC 3450 or PSYC 4400 can be replaced with Criminal Justice courses.

**Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.** **12**

#### Applied Psychology

|           |   |
|-----------|---|
| PSYC 3510 | EDUCATIONAL PSYCHOLOGY (^)                |
| PSYC 4020 | LEARNING (^)                              |
| PSYC 4310 | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^) |
| PSYC 4510 | PSYCHOLOGY IN THE SCHOOLS (^)             |
| PSYC 4560 | FORENSIC PSYCHOLOGY (^)                   |
| PSYC 4630 | ORGANIZATIONAL PSYCHOLOGY (^)             |
| PSYC 4640 | PERSONNEL PSYCHOLOGY (^)                  |

#### Social/Personality/Developmental Psychology

|                |   |
|----------------|---|
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                         |
| PSYC 3520      | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540      | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4450      | PERSONALITY THEORIES (^)                      |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |

#### Mental Health

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

#### Cognitive Neuroscience

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)   |

#### Additional Perspectives

|                |                                     |
|----------------|-------------------------------------|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)              |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)           |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^) |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)            |

|                |   |
|----------------|---|
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (**^)             |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

**Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level** **3**

|                |   |
|----------------|---|
| PSYC 4024      | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074      | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414      | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544      | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |
| PSYC 4644      | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990      | SENIOR THESIS (^) <sup>2</sup>                                    |

**Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.** **6**

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor Science Cognate Requirement** **15**

Students pursuing a BS in psychology must complete 15 credit hours of a cognate set of courses. Students will select one of the five cognate sets below. Course selection must include at least two different departments or programs. No more than 6 hours of courses may be at the 1000 level, with the remaining 9 hours taken at the 2000 level or above. Students may take a minor in place of the cognate under the following circumstances: 1) Students pursuing Option 1 College Requirements, which requires a minor, must take a second minor to satisfy the cognate requirement; OR 2) Students pursuing Option 2 College Requirements, which require additional general education courses, may add a minor to satisfy the cognate requirement.

#### Advocacy, Ethics, Social Justice & Law

|           |   |
|-----------|---|
| BSAD 3600 | BUSINESS ETHICS (^)                     |
| CMST 1110 | PUBLIC SPEAKING FUNDS                   |
| CMST 2120 | ARGUMENTATION AND DEBATE                |
| CRCJ 1010 | CRIME TO COURTROOM: THE JUSTICE JOURNEY |

|                     |   |
|---------------------|---|
| CRCJ 3310           | CRIMINAL LAW (^)                                    |
| CRCJ 3380           | POWER, PERCEPTION, AND PUNISHMENT (^)               |
| CRCJ 3390           | WOMEN, CRIME AND JUSTICE (^)                        |
| GEOG/ENVN/BIOL 4820 | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |
| HIST 4340           | U.S. CONSTITUTIONAL HISTORY SINCE 1860 (^)          |
| PHIL 1210           | CRITICAL REASONING                                  |
| PHIL 2030           | INTRODUCTION TO ETHICS                              |
| PHIL 3040           | PHILOSOPHY OF LAW (^)                               |
| PSCI 1100           | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT        |
| PSCI 2110           | INTRODUCTION TO PUBLIC POLICY                       |
| PSCI 2180           | INTRODUCTION TO LAW                                 |
| PSCI 4140           | CONSTITUTIONAL LAW: CIVIL RIGHTS (^)                |
| PSCI 4190           | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)             |
| RELU 3460           | REAL ESTATE LAW (^)                                 |
| SOC 1010            | INTRODUCTORY SOCIOLOGY                              |
| SOC 3700            | INTRODUCTION TO LGBTQ STUDIES (^)                   |
| SOC 4740            | SOCIAL JUSTICE AND SOCIAL CHANGE (^)                |

#### Artistic and Literary Perspectives

|           |   |
|-----------|---|
| ART 1010  | ART APPRECIATION                                      |
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850 (^)                |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                  |
| BLST 2510 | MUSIC AND THE BLACK EXPERIENCE                        |
| ENGL 2110 | INTRODUCTION TO CREATIVE NONFICTION WRITING (^)       |
| ENGL 2280 | INTRODUCTION TO LANGUAGE (^)                          |
| ENGL 2310 | INTRODUCTION TO BRITISH LITERATURE I (^)              |
| ENGL 2320 | INTRODUCTION TO BRITISH LITERATURE II (^)             |
| ENGL 2450 | AMERICAN LITERATURE I (^)                             |
| ENGL 2460 | AMERICAN LITERATURE II (^)                            |
| ENGL 3130 | AMERICAN NONFICTION (^)                               |
| JMC 3700  | VISUAL COMMUNICATION AND CULTURE (^)                  |
| PHIL 3060 | VALUES AND VIRTUES                                    |
| PHIL 3220 | PHILOSOPHY OF ART (^)                                 |
| KINS 3110 | INTRODUCTION TO DANCE                                 |
| RELI 1010 | RELIGIONS OF THE WORLD                                |
| RELI 2010 | RELIGION AND CRITICAL THOUGHT (^)                     |
| THEA 1050 | FILM HISTORY AND APPRECIATION                         |
| THEA 3760 | THEATRE HISTORY AND LITERATURE:MODERN / 1850-2000 (^) |
| WRWS 3500 | CREATIVE WRITING FOR THE ARTS (^)                     |

#### Global Culture & Diverse Populations

|           |  |
|-----------|--|
| ART 1040  | GLOBAL INDIGENOUS ART                          |
| BLST 1000 | INTRODUCTION TO BLACK STUDIES (**)             |
| BLST 2420 | AFRICAN-AMERICAN HISTORY II: 1865-1954         |
| BLST 2430 | AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY |

|           |  |
|-----------|--|
| CMST 4570 | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (^)     |
| CMST 4580 | COMMUNICATING RACE, ETHNICITY & IDENTITY (^)             |
| CRCJ 3380 | POWER, PERCEPTION, AND PUNISHMENT (^)                    |
| CRCJ 4750 | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (^)       |
| ENGL 2230 | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (^)         |
| ENGL 2260 | BLACK SHORT STORY (^)                                    |
| ENGL 2470 | SURVEY OF NATIVE AMERICAN LITERATURE (^)                 |
| ENGL 2490 | LATINO/A LITERATURE (^)                                  |
| ENGL 3280 | IRISH LITERATURE I (^)                                   |
| ENGL 3290 | IRISH LITERATURE II (^)                                  |
| EMGT 1150 | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION                           |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD                            |
| PHHB 4650 | GLOBAL HEALTH  |
| RELI 2020 | RELIGION AND HUMAN RIGHTS                                |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (^)                        |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (^)                |
| SOWK 2120 | RACE, CLASS AND GENDER IN THE UNITED STATES              |
| SPED 1500 | INTRODUCTION TO SPECIAL EDUCATION ( ^)                   |

#### Health and Science Explorations

|                |  |
|----------------|--|
| BIOL 1060      | INTRODUCTION TO MEDICAL CAREERS & ETHICS       |
| BIOL 1450      | BIOLOGY I (** ^)                               |
| BIOL 1750      | BIOLOGY II (^)                                 |
| BIOL 2060      | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^) |
| BIOL 2140      | GENETICS (^)                                   |
| BIOL 3240      | INTRODUCTION TO IMMUNOLOGY (^)                 |
| BIOL 4890      | GENES, BRAIN, AND BEHAVIOR (^)                 |
| CMST 3750      | GENDER AND COMMUNICATION (** ^)                |
| CMST 4220      | HEALTH COMMUNICATION (^)                       |
| GERO 2000      | INTRODUCTION TO GERONTOLOGY                    |
| GERO/BIOL 3500 | BIOLOGICAL PRINCIPLES OF AGING (^)             |
| GERO 4550      | HEALTH ASPECTS OF AGING                        |
| PHHB 1500      | FOUNDATIONS IN PUBLIC HEALTH                   |
| PHHB 2310      | HEALTHFUL LIVING                               |
| PHHB 4700      | WOMEN'S HEALTH AND ISSUES OF DIVERSITY         |
| PHHB 4880      | PUBLIC HEALTH POLICY (^)                       |
| PHHB 4950      | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)      |
| NEUR 1520      | INTRODUCTION TO NEUROSCIENCE I (^)             |
| NEUR 1540      | INTRODUCTION TO NEUROSCIENCE II (^)            |
| PHIL 2300      | BIOMEDICAL ETHICS                              |
| PHIL 3400      | PHILOSOPHY OF NATURAL SCIENCE (^)              |
| PHIL 4220      | NEUROETHICS (^)                                |
| RELI 2500      | SPIRITUALITY AND WELLNESS (^)                  |



**May choose only 1 of the following MATH courses:**

|           |  |
|-----------|--|
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1940 | CALCULUS FOR BIOMEDICINE (^)                               |
| MATH 1950 | CALCULUS I (^)   |

**Work Technology & Communication**

|           |                                       |
|-----------|---------------------------------------|
| CMST 2010 | INTERPERSONAL COMMUNICATION           |
| CMST 4220 | HEALTH COMMUNICATION (^)              |
| CSCI 1200 | COMPUTER SCIENCE PRINCIPLES (^)       |
| CSCI 4260 | USER EXPERIENCE DESIGN (^)            |
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO) (^)   |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) (^)   |
| ECON 4340 | ECONOMICS OF TECHNOLOGY (^)           |
| ENGL 3050 | WRITING FOR THE WORKPLACE (^)         |
| ENGL 4830 | TECHNICAL COMMUNICATION (^)           |
| MGMT 1500 | INTRODUCTION TO BUSINESS              |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS (^)    |
| MGMT 4090 | MANAGING COLLABORATIVE ENGAGEMENT (^) |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)           |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)            |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)         |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY (^)  |
| SOC 3800  | WORK AND SOCIETY (^)                  |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

# Industrial/Organizational Psychology

## Psychology, Bachelor of Science with a Concentration in Industrial/Organizational Psychology Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge****13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility****6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Psychology Major with a Concentration in Industrial/Organizational Psychology - 38+ Hours Required****Required Coursework****23**

The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.

|              |   |
|--------------|---|
| PSYC 1010    | INTRODUCTION TO PSYCHOLOGY I (**)             |
| PSYC 1020    | INTRODUCTION TO PSYCHOLOGY II                 |
| PSYC 2000    | CAREER PATHS IN PSYCHOLOGY                    |
| PSYC 2040    | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^) |
| PSYC 3130    | STATISTICS FOR THE BEHAVIORAL SCIENCES        |
| or STAT 3000 | STATISTICAL METHODS I                         |
| PSYC 3140    | RESEARCH METHODS IN PSYCHOLOGY ( )            |
| PSYC 4630    | ORGANIZATIONAL PSYCHOLOGY                     |
| PSYC 4640    | PERSONNEL PSYCHOLOGY                          |
| PSYC 4890    | SENIOR ASSESSMENT IN PSYCHOLOGY (^)           |

**Select two 3-credit (PSYC) Psychology courses from Organizational/Industrial Concentration****6**

|           |   |
|-----------|---|
| PSYC 3450 | SOCIAL PSYCHOLOGY   |
| PSYC 4070 | COGNITIVE PSYCHOLOGY  |
| PSYC 4310 | PSYCHOLOGICAL AND EDUCATIONAL TESTING                                     |
| PSYC 4644 | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL               |
| PSYC 4650 | CREATIVITY AND INNOVATION IN ORGANIZATIONS                                |
| PSYC 4930 | SPECIAL TOPICS IN PSYCHOLOGY (Industrial/Organizational Psychology topic) |



|           |  |    |
|-----------|--|----|
| PSYC 4960 | INDEPENDENT STUDY IN PSYCHOLOGY (^ Industrial/Organizational Psychology topic) | 12 |
| PSYC 4990 | SENIOR THESIS (^ Industrial/Organizational Psychology topic)                   |    |

**Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.**

#### Applied Psychology

|           |   |
|-----------|---|
| PSYC 3510 | EDUCATIONAL PSYCHOLOGY (^)                |
| PSYC 4020 | LEARNING (^)                              |
| PSYC 4310 | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^) |
| PSYC 4510 | PSYCHOLOGY IN THE SCHOOLS (^)             |
| PSYC 4560 | FORENSIC PSYCHOLOGY (^)                   |
| PSYC 4630 | ORGANIZATIONAL PSYCHOLOGY (^)             |
| PSYC 4640 | PERSONNEL PSYCHOLOGY (^)                  |

#### Social/Personality/Developmental Psychology

|                |   |
|----------------|---|
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                         |
| PSYC 3520      | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540      | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4450      | PERSONALITY THEORIES (^)                      |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |

#### Mental Health

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

#### Cognitive Neuroscience

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)   |

#### Additional Perspectives

|                |   |
|----------------|---|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)                        |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)                     |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)           |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)                      |
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (** ^)            |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

**Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level. Courses taken for this concentration can be used to satisfy this requirement. See an advisor to plan accordingly.**

3

|                |   |
|----------------|---|
| PSYC 4024      | LABORATORY IN PSYCHOLOGY: LEARNING (^)  |
| PSYC 4074      | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^)   |
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)   |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)  |
| PSYC 4414      | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)   |
| PSYC 4544      | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)  |
| PSYC 4644      | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990      | SENIOR THESIS (^ations and Conclusions. Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.) (Requires B or better in PSYC 3140 and B average in major) <sup>2</sup> |

**Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly. s at the 3000-4000 Level**

6

#### College Breadth (choose one option)

15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### Bachelor Science Cognate Requirement

15

Students pursuing a BS in psychology must complete 15 credit hours of a cognate set of courses. Students will select one of the five cognate sets below. Course selection must include at least two different departments or programs. No more than 6 hours of courses may be at the 1000 level, with the remaining 9 hours taken at the 2000 level or above. Students may take a minor in place of the cognate under the following circumstances: 1) Students pursuing Option 1 College Requirements, which requires a minor, must take a second minor to satisfy the cognate requirement; OR 2) Students pursuing Option 2 College Requirements, which require additional general education courses, may add a minor to satisfy the cognate requirement.

#### Advocacy, Ethics, Social Justice & Law

|           |  |
|-----------|--|
| BSAD 3600 | BUSINESS ETHICS (^)                          |
| CMST 1110 | PUBLIC SPEAKING FUNDS (**)                   |
| CMST 2120 | ARGUMENTATION AND DEBATE (**)                |
| CRCJ 1010 | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**) |

|                     |   |
|---------------------|---|
| CRCJ 3310           | CRIMINAL LAW (^)                                    |
| CRCJ 3380           | POWER, PERCEPTION, AND PUNISHMENT (** ^)            |
| CRCJ 3390           | WOMEN, CRIME AND JUSTICE (** ^)                     |
| GEOG/ENVN/BIOL 4820 | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |
| HIST 4340           | U.S. CONSTITUTIONAL HISTORY SINCE 1860 (^)          |
| PHIL 1210           | CRITICAL REASONING (**)                             |
| PHIL 2030           | INTRODUCTION TO ETHICS (**)                         |
| PHIL 3040           | PHILOSOPHY OF LAW (^)                               |
| PSCI 1100           | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)   |
| PSCI 2110           | INTRODUCTION TO PUBLIC POLICY (**)                  |
| PSCI 2180           | INTRODUCTION TO LAW (**)                            |
| PSCI 4140           | CONSTITUTIONAL LAW: CIVIL RIGHTS (^)                |
| PSCI 4190           | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)             |
| RELU 3460           | REAL ESTATE LAW (^)                                 |
| SOC 1010            | INTRODUCTORY SOCIOLOGY (**)                         |
| SOC 3700            | INTRODUCTION TO LGBTQ STUDIES (** ^)                |
| SOC 4740            | SOCIAL JUSTICE AND SOCIAL CHANGE (^)                |

#### Artistic and Literary Perspectives

|           |   |
|-----------|---|
| ART 1010  | ART APPRECIATION (** ^)                               |
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850 (^)                |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                  |
| BLST 2510 | MUSIC AND THE BLACK EXPERIENCE (**)                   |
| ENGL 2110 | INTRODUCTION TO CREATIVE NONFICTION WRITING (** ^)    |
| ENGL 2280 | INTRODUCTION TO LANGUAGE (** ^)                       |
| ENGL 2310 | INTRODUCTION TO BRITISH LITERATURE I (** ^)           |
| ENGL 2320 | INTRODUCTION TO BRITISH LITERATURE II (** ^)          |
| ENGL 2450 | AMERICAN LITERATURE I (** ^)                          |
| ENGL 2460 | AMERICAN LITERATURE II (** ^)                         |
| ENGL 3130 | AMERICAN NONFICTION (** ^)                            |
| JMC 3700  | VISUAL COMMUNICATION AND CULTURE (** ^)               |
| PHIL 3060 | VALUES AND VIRTUES                                    |
| PHIL 3220 | PHILOSOPHY OF ART (^)                                 |
| KINS 3110 | INTRODUCTION TO DANCE                                 |
| RELI 1010 | RELIGIONS OF THE WORLD (**)                           |
| THEA 1050 | FILM HISTORY AND APPRECIATION (**)                    |
| THEA 3760 | THEATRE HISTORY AND LITERATURE:MODERN / 1850-2000 (^) |
| WRWS 3500 | CREATIVE WRITING FOR THE ARTS (** ^)                  |

#### Global Culture & Diverse Populations

|           |   |
|-----------|---|
| ART 1040  | GLOBAL INDIGENOUS ART (**)                          |
| BLST 1000 | INTRODUCTION TO BLACK STUDIES (**)                  |
| BLST 2420 | AFRICAN-AMERICAN HISTORY II: 1865-1954 (**)         |
| BLST 2430 | AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY (**) |

|           |   |
|-----------|---|
| CMST 4570 | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (** ^)       |
| CMST 4580 | COMMUNICATING RACE, ETHNICITY & IDENTITY (** ^)               |
| CRCJ 3380 | POWER, PERCEPTION, AND PUNISHMENT (** ^)                      |
| CRCJ 4750 | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^)         |
| ENGL 2230 | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)           |
| ENGL 2260 | BLACK SHORT STORY (** ^)                                      |
| ENGL 2470 | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                   |
| ENGL 2490 | LATINO/A LITERATURE (^)                                       |
| ENGL 3280 | IRISH LITERATURE I (** ^)                                     |
| ENGL 3290 | IRISH LITERATURE II (** ^)                                    |
| EMGT 1150 | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES (**) |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION (**)                           |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD (**)                            |
| PHHB 4650 | GLOBAL HEALTH (**)  |
| RELI 2020 | RELIGION AND HUMAN RIGHTS (**)                                |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)                          |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)                  |
| SOWK 2120 | RACE, CLASS AND GENDER IN THE UNITED STATES (**)              |
| SPED 1500 | INTRODUCTION TO SPECIAL EDUCATION (** ^)                      |

#### Health and Science Explorations

|                |  |
|----------------|--|
| BIOL 1060      | INTRODUCTION TO MEDICAL CAREERS & ETHICS       |
| BIOL 1450      | BIOLOGY I (** ^)                               |
| BIOL 1750      | BIOLOGY II (^)                                 |
| BIOL 2060      | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^) |
| BIOL 2140      | GENETICS (^)                                   |
| BIOL 3240      | INTRODUCTION TO IMMUNOLOGY (^)                 |
| BIOL 4890      | GENES, BRAIN, AND BEHAVIOR (^)                 |
| CMST 3750      | GENDER AND COMMUNICATION (** ^)                |
| CMST 4220      | HEALTH COMMUNICATION (^)                       |
| GERO 2000      | INTRODUCTION TO GERONTOLOGY (**)               |
| GERO/BIOL 3500 | BIOLOGICAL PRINCIPLES OF AGING (^)             |
| GERO 4550      | HEALTH ASPECTS OF AGING                        |
| PHHB 1500      | FOUNDATIONS IN PUBLIC HEALTH (**)              |
| PHHB 2310      | HEALTHFUL LIVING                               |
| PHHB 4700      | WOMEN'S HEALTH AND ISSUES OF DIVERSITY (**)    |
| PHHB 4880      | PUBLIC HEALTH POLICY (^)                       |
| PHHB 4950      | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)      |
| NEUR 1520      | INTRODUCTION TO NEUROSCIENCE I (^)             |
| NEUR 1540      | INTRODUCTION TO NEUROSCIENCE II (^)            |
| PHIL 2300      | BIOMEDICAL ETHICS                              |
| PHIL 3400      | PHILOSOPHY OF NATURAL SCIENCE (^)              |
| PHIL 4220      | NEUROETHICS (^)                                |

|   |  |
|---|--|
| RELI 2500   | SPIRITUALITY AND WELLNESS (^)                              |
| <b>May choose only 1 of the following MATH courses:</b> |  |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1940   | CALCULUS FOR BIOMEDICINE (^)                               |
| MATH 1950   | CALCULUS I (^)   |
| <b>Work Technology &amp; Communication</b>              |  |
| CMST 2010   | INTERPERSONAL COMMUNICATION (**)                           |
| CMST 4220   | HEALTH COMMUNICATION (^)                                   |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES (** ^)                         |
| CSCI 4260   | USER EXPERIENCE DESIGN (^)                                 |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |
| ECON 4340   | ECONOMICS OF TECHNOLOGY (^)                                |
| ENGL 3050   | WRITING FOR THE WORKPLACE (^)                              |
| ENGL 4830   | TECHNICAL COMMUNICATION (^)                                |
| MGMT 1500   | INTRODUCTION TO BUSINESS (**)                              |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |
| MGMT 4090   | MANAGING COLLABORATIVE ENGAGEMENT (^)                      |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)                                 |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)                              |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY (^)                       |
| SOC 3800  | WORK AND SOCIETY (^)                                       |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Mental Health

### Psychology, Bachelor of Science with a Concentration in Mental Health Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Psychology Major with a Concentration in Mental Health - 38+ Hours Required****Required Coursework 23**

The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.

|              |   |
|--------------|---|
| PSYC 1010    | INTRODUCTION TO PSYCHOLOGY I (**)             |
| PSYC 1020    | INTRODUCTION TO PSYCHOLOGY II (^)             |
| PSYC 2000    | CAREER PATHS IN PSYCHOLOGY (^)                |
| PSYC 2040    | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^) |
| PSYC 3130    | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)    |
| or STAT 3000 | STATISTICAL METHODS I                         |
| PSYC 3140    | RESEARCH METHODS IN PSYCHOLOGY                |
| PSYC 3410    | CLINICAL PSYCHOLOGY                           |
| PSYC 4440    | ABNORMAL PSYCHOLOGY                           |
| PSYC 4890    | SENIOR ASSESSMENT IN PSYCHOLOGY (^)           |

**Select two 3-credit (PSYC) Mental Health Concentration courses from below 6**

|                |   |
|----------------|---|
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                          |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)                             |
| PSYC 4450      | PERSONALITY THEORIES (^)                                |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                             |
| PSYC 4560      | FORENSIC PSYCHOLOGY (^)                                 |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)                  |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)           |
| PSYC 4930      | SPECIAL TOPICS IN PSYCHOLOGY (Mental Health topic)      |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^ Mental Health topic) |

PSYC 4990 SENIOR THESIS (^ Mental Health topic)

**Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.**

**12****Applied Psychology**

|           |   |
|-----------|---|
| PSYC 3510 | EDUCATIONAL PSYCHOLOGY (^)                |
| PSYC 4020 | LEARNING (^)                              |
| PSYC 4310 | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^) |
| PSYC 4510 | PSYCHOLOGY IN THE SCHOOLS (^)             |
| PSYC 4560 | FORENSIC PSYCHOLOGY (^)                   |
| PSYC 4630 | ORGANIZATIONAL PSYCHOLOGY (^)             |
| PSYC 4640 | PERSONNEL PSYCHOLOGY (^)                  |

**Social/Personality/Developmental Psychology**

|                |   |
|----------------|---|
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                         |
| PSYC 3520      | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540      | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4450      | PERSONALITY THEORIES (^)                      |
| PSYC/GERO 4460 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |

**Mental Health**

|                |  |
|----------------|--|
| PSYC 3410      | CLINICAL PSYCHOLOGY (^)                          |
| PSYC 3430      | PERSONALITY AND ADJUSTMENT (^)                   |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                          |
| PSYC/GERO 4470 | MENTAL HEALTH AND AGING (^)                      |
| PSYC 4570      | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)          |
| PSYC 4590      | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)           |
| PSYC 4800      | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |

**Cognitive Neuroscience**

|                |                              |
|----------------|------------------------------|
| PSYC 4070      | COGNITIVE PSYCHOLOGY (^)     |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)   |
| PSYC 4210      | SENSATION AND PERCEPTION (^) |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)  |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)          |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)      |
| PSYC 4520      | PSYCHOLOGY OF LANGUAGE (^)   |

**Additional Perspectives**

|                |   |
|----------------|---|
| PSYC/PHIL 3650 | PHILOSOPHY OF MIND (^)                        |
| PSYC 4010      | HISTORY OF PSYCHOLOGY (^)                     |
| PSYC 4030      | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)           |
| PSYC/PSCI 4110 | POLITICAL PSYCHOLOGY (^)                      |
| PSYC/BLST 4150 | AFRICAN AMERICAN PSYCHOLOGY (** ^)            |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                   |
| PSYC 4680      | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^) |
| PSYC 4960      | INDEPENDENT STUDY IN PSYCHOLOGY (^)           |
| PSYC 4990      | SENIOR THESIS (^) <sup>1</sup>                |

**Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level**

**3**

|           |  |
|-----------|--|
| PSYC 4024 | LABORATORY IN PSYCHOLOGY: LEARNING (^) |
|-----------|--|

PSYC 4074 LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^)

|                |   |
|----------------|---|
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)           |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)                                  |
| PSYC 4414      | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                     |
| PSYC 4544      | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                      |
| PSYC 4644      | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^) |
| PSYC 4990      | SENIOR THESIS (^) <sup>2</sup>                                  |

**Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.**

**6****College Breadth (choose one option)****15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor Science Cognate Requirement****15**

Students pursuing a BS in psychology must complete 15 credit hours of a cognate set of courses. Students will select one of the five cognate sets below. Course selection must include at least two different departments or programs. No more than 6 hours of courses may be at the 1000 level, with the remaining 9 hours taken at the 2000 level or above. Students may take a minor in place of the cognate under the following circumstances:

1) Students pursuing Option 1 College Requirements, which requires a minor, must take a second minor to satisfy the cognate requirement; OR 2) Students pursuing Option 2 College Requirements, which require additional general education courses, may add a minor to satisfy the cognate requirement.

**Advocacy, Ethics, Social Justice & Law**

|                     |   |
|---------------------|---|
| BSAD 3600           | BUSINESS ETHICS (^)                                 |
| CMST 1110           | PUBLIC SPEAKING FUNDS (**)                          |
| CMST 2120           | ARGUMENTATION AND DEBATE (**)                       |
| CRCJ 1010           | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)        |
| CRCJ 3310           | CRIMINAL LAW (^)                                    |
| CRCJ 3380           | POWER, PERCEPTION, AND PUNISHMENT (** ^)            |
| CRCJ 3390           | WOMEN, CRIME AND JUSTICE (** ^)                     |
| GEOG/ENVN/BIOL 4820 | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |
| HIST 4340           | U.S. CONSTITUTIONAL HISTORY SINCE 1860 (^)          |
| PHIL 1210           | CRITICAL REASONING (**)                             |
| PHIL 2030           | INTRODUCTION TO ETHICS (**)                         |
| PHIL 3040           | PHILOSOPHY OF LAW (^)                               |

|           |   |
|-----------|---|
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| PSCI 2110 | INTRODUCTION TO PUBLIC POLICY (**)                |
| PSCI 2180 | INTRODUCTION TO LAW (**)                          |
| PSCI 4140 | CONSTITUTIONAL LAW: CIVIL RIGHTS (^)              |
| PSCI 4190 | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)           |
| RELU 3460 | REAL ESTATE LAW (^)                               |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (**)                       |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)              |
| SOC 4740  | SOCIAL JUSTICE AND SOCIAL CHANGE (^)              |

#### Artistic and Literary Perspectives

|           |   |
|-----------|---|
| ART 1010  | ART APPRECIATION (** ^)                               |
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850 (^)                |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                  |
| BLST 2510 | MUSIC AND THE BLACK EXPERIENCE (**)                   |
| ENGL 2110 | INTRODUCTION TO CREATIVE NONFICTION WRITING (**)      |
| ENGL 2280 | INTRODUCTION TO LANGUAGE (** ^)                       |
| ENGL 2310 | INTRODUCTION TO BRITISH LITERATURE I (** ^)           |
| ENGL 2320 | INTRODUCTION TO BRITISH LITERATURE II (** ^)          |
| ENGL 2450 | AMERICAN LITERATURE I (** ^)                          |
| ENGL 2460 | AMERICAN LITERATURE II (** ^)                         |
| ENGL 3130 | AMERICAN NONFICTION (** ^)                            |
| JMC 3700  | VISUAL COMMUNICATION AND CULTURE (** ^)               |
| PHIL 3060 | VALUES AND VIRTUES                                    |
| PHIL 3220 | PHILOSOPHY OF ART (^)                                 |
| KINS 3110 | INTRODUCTION TO DANCE                                 |
| RELI 1010 | RELIGIONS OF THE WORLD (**)                           |
| RELI 2010 | RELIGION AND CRITICAL THOUGHT (^)                     |
| THEA 1050 | FILM HISTORY AND APPRECIATION (**)                    |
| THEA 3760 | THEATRE HISTORY AND LITERATURE:MODERN / 1850-2000 (^) |
| WRWS 3500 | CREATIVE WRITING FOR THE ARTS (** ^)                  |

#### Global Culture & Diverse Populations

|           |   |
|-----------|---|
| ART 1040  | GLOBAL INDIGENOUS ART (**)                            |
| BLST 1000 | INTRODUCTION TO BLACK STUDIES (**)                    |
| BLST 2420 | AFRICAN-AMERICAN HISTORY II: 1865-1954 (**)           |
| BLST 2430 | AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY (**)   |
| CMST 4570 | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (**) |
| CMST 4580 | COMMUNICATING RACE, ETHNICITY & IDENTITY (**^)        |
| CRCJ 3380 | POWER, PERCEPTION, AND PUNISHMENT (**^)               |
| CRCJ 4750 | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^) |
| ENGL 2230 | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)   |
| ENGL 2260 | BLACK SHORT STORY (** ^)                              |

|           |   |
|-----------|---|
| ENGL 2470 | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                   |
| ENGL 3280 | IRISH LITERATURE I (** ^)                                     |
| ENGL 3290 | IRISH LITERATURE II (** ^)                                    |
| EMGT 1150 | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES (**) |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION (**)                           |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD (**)                            |
| PHHB 4650 | GLOBAL HEALTH (**)  |
| RELI 2020 | RELIGION AND HUMAN RIGHTS (**)                                |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)                          |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)                  |
| SOWK 2120 | RACE, CLASS AND GENDER IN THE UNITED STATES (**)              |
| SPED 1500 | INTRODUCTION TO SPECIAL EDUCATION (** ^)                      |

#### Health and Science Explorations

|                |  |
|----------------|--|
| BIOL 1060      | INTRODUCTION TO MEDICAL CAREERS & ETHICS       |
| BIOL 1450      | BIOLOGY I (** ^)                               |
| BIOL 1750      | BIOLOGY II (^)                                 |
| BIOL 2060      | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^) |
| BIOL 2140      | GENETICS (^)                                   |
| BIOL 3240      | INTRODUCTION TO IMMUNOLOGY (^)                 |
| BIOL 4890      | GENES, BRAIN, AND BEHAVIOR (^)                 |
| CMST 3750      | GENDER AND COMMUNICATION (** ^)                |
| CMST 4220      | HEALTH COMMUNICATION (^)                       |
| GERO 2000      | INTRODUCTION TO GERONTOLOGY (**)               |
| GERO/BIOL 3500 | BIOLOGICAL PRINCIPLES OF AGING (^)             |
| GERO 4550      | HEALTH ASPECTS OF AGING                        |
| PHHB 1500      | FOUNDATIONS IN PUBLIC HEALTH (**)              |
| PHHB 2310      | HEALTHFUL LIVING                               |
| PHHB 4700      | WOMEN'S HEALTH AND ISSUES OF DIVERSITY (**)    |
| PHHB 4880      | PUBLIC HEALTH POLICY (^)                       |
| PHHB 4950      | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)      |
| NEUR 1520      | INTRODUCTION TO NEUROSCIENCE I (^)             |
| NEUR 1540      | INTRODUCTION TO NEUROSCIENCE II (^)            |
| PHIL 2300      | BIOMEDICAL ETHICS                              |
| PHIL 3400      | PHILOSOPHY OF NATURAL SCIENCE (^)              |
| PHIL 4220      | NEUROETHICS (^)                                |
| RELI 2500      | SPIRITUALITY AND WELLNESS (^)                  |

#### May choose only 1 of the following MATH courses:

|           |  |
|-----------|--|
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1940 | CALCULUS FOR BIOMEDICINE (^)                               |
| MATH 1950 | CALCULUS I (^)   |

#### Work Technology & Communication

|           |                                    |
|-----------|------------------------------------|
| CMST 2010 | INTERPERSONAL COMMUNICATION (**)   |
| CMST 4220 | HEALTH COMMUNICATION (^)           |
| CSCI 1200 | COMPUTER SCIENCE PRINCIPLES (** ^) |
| CSCI 4260 | USER EXPERIENCE DESIGN (^)         |



|           |   |
|-----------|---|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO)<br>(** ^) |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)<br>(** ^) |
| ECON 4340 | ECONOMICS OF TECHNOLOGY (^)               |
| ENGL 3050 | WRITING FOR THE WORKPLACE (^)             |
| ENGL 4830 | TECHNICAL COMMUNICATION (^)               |
| MGMT 1500 | INTRODUCTION TO BUSINESS (**)             |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS<br>(^)     |
| MGMT 4090 | MANAGING COLLABORATIVE<br>ENGAGEMENT (^)  |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)               |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)                |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)             |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY<br>(^)   |
| SOC 3800  | WORK AND SOCIETY (^)                      |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Neuroscience and Behavior Psychology, Bachelor of Science with a Concentration in Neuroscience and Behavior Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |

|   |                       |
|---|-----------------------|
| STAT 1530   | ELEMENTARY STATISTICS |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |                       |

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Psychology Major with a Concentration in Neuroscience and Behavior - 38+ Hours Required****Required Coursework 17**

The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.

|              |  |
|--------------|--|
| PSYC 1010    | INTRODUCTION TO PSYCHOLOGY I (**)          |
| PSYC 1020    | INTRODUCTION TO PSYCHOLOGY II (^)          |
| PSYC 2000    | CAREER PATHS IN PSYCHOLOGY (^)             |
| PSYC 2040    | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY  |
| PSYC 3130    | STATISTICS FOR THE BEHAVIORAL SCIENCES (^) |
| or STAT 3000 | STATISTICAL METHODS I                      |
| PSYC 3140    | RESEARCH METHODS IN PSYCHOLOGY (^)         |
| PSYC 4890    | SENIOR ASSESSMENT IN PSYCHOLOGY (^)        |

**Select two of the following concentration courses in Neuroscience and Behavior 6**

|                |                             |
|----------------|-----------------------------|
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)  |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^) |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)         |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)     |

**Select two of the following concentration courses in Neuroscience and Behavior not fulfilled above 6**

|                |   |
|----------------|---|
| PSYC 4020      | LEARNING (^)  |
| PSYC 4024      | LABORATORY IN PSYCHOLOGY: LEARNING (^)                |
| PSYC 4090      | COGNITIVE NEUROSCIENCE (^)                            |
| PSYC/NEUR 4160 | NEUROPHARMACOLOGY (^)                                 |
| PSYC 4210      | SENSATION AND PERCEPTION (^)                          |
| PSYC 4230      | BEHAVIORAL NEUROSCIENCE (^)                           |
| PSYC 4234      | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^) |
| PSYC/PHIL 4250 | LIMITS OF CONSCIOUSNESS (^)                           |
| PSYC/BIOL 4270 | ANIMAL BEHAVIOR (^)                                   |
| PSYC/BIOL 4280 | ANIMAL BEHAVIOR LABORATORY (^)                        |
| PSYC/BIOL 4320 | HORMONES & BEHAVIOR (^)                               |
| PSYC/NEUR 4340 | ADVANCED BEHAVIORAL NEUROSCIENCE (^)                  |
| PSYC 4440      | ABNORMAL PSYCHOLOGY (^)                               |
| PSYC 4930      | SPECIAL TOPICS IN PSYCHOLOGY (^ Neuroscience topic)   |

|  |  |           |
|--|--|-----------|
| PSYC 4960  | INDEPENDENT STUDY IN PSYCHOLOGY (^ Neuroscience topic) | <b>12</b> |
| PSYC 4990  | SENIOR THESIS (^ Neuroscience topic)                   |           |
| <b>Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.</b> |  |           |
| <b>Applied Psychology</b>  |  |           |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)                             |           |
| PSYC 4020  | LEARNING (^)   |           |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)              |           |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)                          |           |
| PSYC 4560  | FORENSIC PSYCHOLOGY (^)                                |           |
| PSYC 4630  | ORGANIZATIONAL PSYCHOLOGY (^)                          |           |
| PSYC 4640  | PERSONNEL PSYCHOLOGY (^)                               |           |
| <b>Social/Personality/Developmental Psychology</b>   |  |           |
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                                  |           |
| PSYC 3520  | CHILD PSYCHOLOGY (^)                                   |           |
| PSYC 3540  | ADOLESCENT PSYCHOLOGY (^)                              |           |
| PSYC 4450  | PERSONALITY THEORIES (^)                               |           |
| PSYC/GERO 4460   | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)          |           |
| <b>Mental Health</b>   |  |           |
| PSYC 3410  | CLINICAL PSYCHOLOGY (^)                                |           |
| PSYC 3430  | PERSONALITY AND ADJUSTMENT (^)                         |           |
| PSYC 4440  | ABNORMAL PSYCHOLOGY (^)                                |           |
| PSYC/GERO 4470   | MENTAL HEALTH AND AGING (^)                            |           |
| PSYC 4570  | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)                |           |
| PSYC 4590  | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)                 |           |
| PSYC 4800  | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^)       |           |
| <b>Cognitive Neuroscience</b>  |  |           |
| PSYC 4070  | COGNITIVE PSYCHOLOGY (^)                               |           |
| PSYC 4090  | COGNITIVE NEUROSCIENCE (^)                             |           |
| PSYC 4210  | SENSATION AND PERCEPTION (^)                           |           |
| PSYC 4230  | BEHAVIORAL NEUROSCIENCE (^)                            |           |
| PSYC/BIOL 4270   | ANIMAL BEHAVIOR (^)                                    |           |
| PSYC/BIOL 4320   | HORMONES & BEHAVIOR (^)                                |           |
| PSYC 4520  | PSYCHOLOGY OF LANGUAGE (^)                             |           |
| <b>Additional Perspectives</b>   |  |           |
| PSYC/PHIL 3650   | PHILOSOPHY OF MIND (^)                                 |           |
| PSYC 4010  | HISTORY OF PSYCHOLOGY (^)                              |           |
| PSYC 4030  | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)                    |           |
| PSYC/PSCI 4110   | POLITICAL PSYCHOLOGY (^)                               |           |
| PSYC/BLST 4150   | AFRICAN AMERICAN PSYCHOLOGY (** ^)                     |           |
| PSYC/PHIL 4250   | LIMITS OF CONSCIOUSNESS (^)                            |           |
| PSYC 4680  | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)          |           |
| PSYC 4960  | INDEPENDENT STUDY IN PSYCHOLOGY (^)                    |           |
| PSYC 4990  | SENIOR THESIS (^) <sup>1</sup>                         |           |
| <b>Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level; a course taken for this concentration above can be counted toward this requirement. See an advisor to plan accordingly.</b>                    |  | <b>3</b>  |

|   |   |               |
|---|---|---------------|
| PSYC 4024   | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            | <b>6</b>      |
| PSYC 4074   | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |               |
| PSYC 4234   | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |               |
| PSYC/BIOL 4280  | ANIMAL BEHAVIOR LABORATORY (^)                                    |               |
| PSYC 4414   | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |               |
| PSYC 4544   | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |               |
| PSYC 4644   | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |               |
| PSYC 4990   | SENIOR THESIS (^) <sup>2</sup>                                    |               |
| <b>Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.</b>  |   |               |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours   |   |               |
| Option 2: Additional General Education Requirements - 18+ hours   |   |               |
| Additional quantitative literacy - 3 hours  |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours  |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |   |               |
| HIST 1000 and HIST 1010 - 6 hours   |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours  |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)   |   |               |
| <b>Bachelor Science Cognate Requirement</b>   |   | <b>15</b>     |
| Students pursuing a BS in psychology must complete 15 credit hours of a cognate set of courses. Students will select one of the five cognate sets below. Course selection must include at least two different departments or programs. No more than 6 hours of courses may be at the 1000 level, with the remaining 9 hours taken at the 2000 level or above. Students may take a minor in place of the cognate under the following circumstances:<br>1) Students pursuing Option 1 College Requirements, which requires a minor, must take a second minor to satisfy the cognate requirement; OR 2) Students pursuing Option 2 College Requirements, which require additional general education courses, may add a minor to satisfy the cognate requirement. |   |               |
| <b>Advocacy, Ethics, Social Justice &amp; Law</b>   |   |               |
| BSAD 3600   | BUSINESS ETHICS (^)   |               |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)  |               |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                                     |               |
| CRCJ 1010   | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)                      |               |
| CRCJ 3310   | CRIMINAL LAW (^)  |               |
| CRCJ 3380   | POWER, PERCEPTION, AND PUNISHMENT (** ^)                          |               |
| CRCJ 3390   | WOMEN, CRIME AND JUSTICE (** ^)                                   |               |
| GEOG/ENVN/BIOL 4820   | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)               |               |
| HIST 4340   | U.S. CONSTITUTIONAL HISTORY SINCE 1860 (^)                        |               |
| PHIL 1210   | CRITICAL REASONING (**)   |               |

|           |   |
|-----------|---|
| PHIL 2030 | INTRODUCTION TO ETHICS (**)                       |
| PHIL 3040 | PHILOSOPHY OF LAW (^)                             |
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| PSCI 2110 | INTRODUCTION TO PUBLIC POLICY (**)                |
| PSCI 2180 | INTRODUCTION TO LAW (**)                          |
| PSCI 4140 | CONSTITUTIONAL LAW: CIVIL RIGHTS (^)              |
| PSCI 4190 | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)           |
| RELU 3460 | REAL ESTATE LAW (^)                               |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (**)                       |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (**^)               |
| SOC 4740  | SOCIAL JUSTICE AND SOCIAL CHANGE (^)              |

#### Artistic and Literary Perspectives

|           |   |
|-----------|---|
| ART 1010  | ART APPRECIATION (** ^)                               |
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850 (^)                |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                  |
| BLST 2510 | MUSIC AND THE BLACK EXPERIENCE (**)                   |
| ENGL 2110 | INTRODUCTION TO CREATIVE NONFICTION WRITING (** ^)    |
| ENGL 2280 | INTRODUCTION TO LANGUAGE (** ^)                       |
| ENGL 2310 | INTRODUCTION TO BRITISH LITERATURE I (** ^)           |
| ENGL 2320 | INTRODUCTION TO BRITISH LITERATURE II (** ^)          |
| ENGL 2450 | AMERICAN LITERATURE I (** ^)                          |
| ENGL 2460 | AMERICAN LITERATURE II (** ^)                         |
| ENGL 3130 | AMERICAN NONFICTION (** ^)                            |
| JMC 3700  | VISUAL COMMUNICATION AND CULTURE (** ^)               |
| PHIL 3060 | VALUES AND VIRTUES                                    |
| PHIL 3220 | PHILOSOPHY OF ART (^)                                 |
| KINS 3110 | INTRODUCTION TO DANCE                                 |
| RELI 1010 | RELIGIONS OF THE WORLD (**)                           |
| RELI 2010 | RELIGION AND CRITICAL THOUGHT (^)                     |
| THEA 1050 | FILM HISTORY AND APPRECIATION (**)                    |
| THEA 3760 | THEATRE HISTORY AND LITERATURE:MODERN / 1850-2000 (^) |
| WRWS 3500 | CREATIVE WRITING FOR THE ARTS (** ^)                  |

#### Global Culture & Diverse Populations

|           |  |
|-----------|--|
| ART 1040  | GLOBAL INDIGENOUS ART (**)                             |
| BLST 1000 | INTRODUCTION TO BLACK STUDIES (**)                     |
| BLST 2420 | AFRICAN-AMERICAN HISTORY II: 1865-1954 (**)            |
| BLST 2430 | AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY (**)    |
| CMST 4570 | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (**^) |
| CMST 4580 | COMMUNICATING RACE, ETHNICITY & IDENTITY (** ^)        |
| CRCJ 3380 | POWER, PERCEPTION, AND PUNISHMENT (** ^)               |
| CRCJ 4750 | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^)  |
| ENGL 2230 | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)    |

|           |   |
|-----------|---|
| ENGL 2260 | BLACK SHORT STORY (** ^)                                      |
| ENGL 2470 | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                   |
| ENGL 2490 | LATINO/A LITERATURE (** ^)                                    |
| ENGL 3280 | IRISH LITERATURE I (** ^)                                     |
| ENGL 3290 | IRISH LITERATURE II (** ^)                                    |
| EMGT 1150 | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES (**) |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION (**)                           |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD (**)                            |
| PHHB 4650 | GLOBAL HEALTH (**)  |
| RELI 2020 | RELIGION AND HUMAN RIGHTS (**)                                |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)                          |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)                  |
| SOWK 2120 | RACE, CLASS AND GENDER IN THE UNITED STATES (**)              |
| SPED 1500 | INTRODUCTION TO SPECIAL EDUCATION (** ^)                      |

#### Health and Science Explorations

|                |  |
|----------------|--|
| BIOL 1060      | INTRODUCTION TO MEDICAL CAREERS & ETHICS       |
| BIOL 1450      | BIOLOGY I (**)                                 |
| BIOL 1750      | BIOLOGY II (^)                                 |
| BIOL 2060      | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^) |
| BIOL 2140      | GENETICS (^)                                   |
| BIOL 3240      | INTRODUCTION TO IMMUNOLOGY (^)                 |
| BIOL 4890      | GENES, BRAIN, AND BEHAVIOR (^)                 |
| CMST 3750      | GENDER AND COMMUNICATION (** ^)                |
| CMST 4220      | HEALTH COMMUNICATION (^)                       |
| GERO 2000      | INTRODUCTION TO GERONTOLOGY (**)               |
| GERO 3500/3500 | BIOLOGICAL PRINCIPLES OF AGING (^)             |
| GERO 4550      | HEALTH ASPECTS OF AGING                        |
| PHHB 1500      | FOUNDATIONS IN PUBLIC HEALTH (**)              |
| PHHB 2310      | HEALTHFUL LIVING                               |
| PHHB 4700      | WOMEN'S HEALTH AND ISSUES OF DIVERSITY (**)    |
| PHHB 4880      | PUBLIC HEALTH POLICY (^)                       |
| PHHB 4950      | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)      |
| NEUR 1520      | INTRODUCTION TO NEUROSCIENCE I (^)             |
| NEUR 1540      | INTRODUCTION TO NEUROSCIENCE II (^)            |
| PHIL 2300      | BIOMEDICAL ETHICS                              |
| PHIL 3400      | PHILOSOPHY OF NATURAL SCIENCE (^)              |
| PHIL 4220      | NEUROETHICS (^)                                |
| RELI 2500      | SPIRITUALITY AND WELLNESS (^)                  |

#### May choose only 1 of the following MATH courses:

|           |  |
|-----------|--|
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1940 | CALCULUS FOR BIOMEDICINE (^)                               |
| MATH 1950 | CALCULUS I (^)   |

#### Work Technology & Communication

|           |                                  |
|-----------|----------------------------------|
| CMST 2010 | INTERPERSONAL COMMUNICATION (**) |
| CMST 4220 | HEALTH COMMUNICATION (^)         |

|           |  |
|-----------|--|
| CSCI 1200 | COMPUTER SCIENCE PRINCIPLES (** ^)     |
| CSCI 4260 | USER EXPERIENCE DESIGN (^)             |
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO) (** ^) |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) (** ^) |
| ECON 4340 | ECONOMICS OF TECHNOLOGY (^)            |
| ENGL 3050 | WRITING FOR THE WORKPLACE (^)          |
| ENGL 4830 | TECHNICAL COMMUNICATION (^)            |
| MGMT 1500 | INTRODUCTION TO BUSINESS (**)          |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS (^)     |
| MGMT 4090 | MANAGING COLLABORATIVE ENGAGEMENT (^)  |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)            |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)             |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)          |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY (^)   |
| SOC 3800  | WORK AND SOCIETY (^)                   |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

<sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## School Psychology

### Psychology, Bachelor of Science with a Concentration in School Psychology Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |

|  |   |
|--|---|
| STAT 1530  | ELEMENTARY STATISTICS                         |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.  |   |
| <b>Breadth of Knowledge</b>  |   |
| <b>13</b>  |   |
| Social Science – 3 hrs.  |   |
| Humanities – 3 hrs.  |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |
| Arts – 3 hrs.  |   |
| <b>Individual and Social Responsibility</b>  |   |
| <b>6</b>   |   |
| Cultural Knowledge – 3 hrs.  |   |
| Civic Knowledge and Engagement – 3 hrs.  |   |
| <b>MAJOR REQUIREMENTS</b>  |   |
| **Course will satisfy UNO's General Education requirement  |   |
| ^Course requires pre-requisite(s)  |   |
| <b>Psychology Major with a Concentration in School Psychology - 38+ Hours Required</b>   |   |
| <b>Required Coursework</b>   |   |
| <b>23</b>  |   |
| The first six courses should be taken early in the student's degree program. Concepts learned in these courses will benefit the student in upper-level Psychology classes.   |   |
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I (**)             |
| PSYC 1020  | INTRODUCTION TO PSYCHOLOGY II (^)             |
| PSYC 2000  | CAREER PATHS IN PSYCHOLOGY (^)                |
| PSYC 2040  | EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (^) |
| PSYC 3130  | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)    |
| or STAT 3000   | STATISTICAL METHODS I                         |
| PSYC 3140  | RESEARCH METHODS IN PSYCHOLOGY (^)            |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)                    |
| PSYC 4590  | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)        |
| PSYC 4890  | SENIOR ASSESSMENT IN PSYCHOLOGY (^)           |
| <b>Select two 3-credit (PSYC) School Psychology Concentration courses From below</b>   |   |
| <b>6</b>   |   |
| PSYC 3410  | CLINICAL PSYCHOLOGY (^)                       |
| PSYC 3520  | CHILD PSYCHOLOGY (^)                          |
| PSYC 3540  | ADOLESCENT PSYCHOLOGY (^)                     |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)     |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)                 |
| <b>Select four 3-credit (PSYC) Psychology courses from four of the five areas below. Some courses taken for the selected concentration will also be applied toward this requirement. See an advisor to plan accordingly.</b> |   |
| <b>12</b>  |   |
| <b>Applied Psychology</b>  |   |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (^)                    |
| PSYC 4020  | LEARNING (^)                                  |
| PSYC 4310  | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)     |
| PSYC 4510  | PSYCHOLOGY IN THE SCHOOLS (^)                 |
| PSYC 4560  | FORENSIC PSYCHOLOGY (^)                       |
| PSYC 4630  | ORGANIZATIONAL PSYCHOLOGY (^)                 |
| PSYC 4640  | PERSONNEL PSYCHOLOGY (^)                      |
| <b>Social/Personality/Developmental Psychology</b>   |   |
| PSYC/SOC 3450  | SOCIAL PSYCHOLOGY (^)                         |

|  |   |
|--|---|
| PSYC 3520  | CHILD PSYCHOLOGY (^)  |
| PSYC 3540  | ADOLESCENT PSYCHOLOGY (^)   |
| PSYC 4450  | PERSONALITY THEORIES (^)  |
| PSYC/GERO 4460   | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)                     |
| <b>Mental Health</b>   |   |
| PSYC 3410  | CLINICAL PSYCHOLOGY (^)   |
| PSYC 3430  | PERSONALITY AND ADJUSTMENT (^)                                    |
| PSYC 4440  | ABNORMAL PSYCHOLOGY (^)   |
| PSYC/GERO 4470   | MENTAL HEALTH AND AGING (^)                                       |
| PSYC 4570  | BEHAVIOR ANALYSIS AND INTERVENTIONS (^)                           |
| PSYC 4590  | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)                            |
| PSYC 4800  | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^)                  |
| <b>Cognitive Neuroscience</b>  |   |
| PSYC 4070  | COGNITIVE PSYCHOLOGY (^)  |
| PSYC 4090  | COGNITIVE NEUROSCIENCE (^)  |
| PSYC 4210  | SENSATION AND PERCEPTION (^)                                      |
| PSYC 4230  | BEHAVIORAL NEUROSCIENCE (^)                                       |
| PSYC/BIOL 4270   | ANIMAL BEHAVIOR (^)   |
| PSYC/BIOL 4320   | HORMONES & BEHAVIOR (^)   |
| PSYC 4520  | PSYCHOLOGY OF LANGUAGE (^)  |
| <b>Additional Perspectives</b>   |   |
| PSYC/PHIL 3650   | PHILOSOPHY OF MIND (^)  |
| PSYC 4030  | CONCEPTUAL ANALYSIS OF BEHAVIOR (^)                               |
| PSYC 4010  | HISTORY OF PSYCHOLOGY (^)   |
| PSYC/PSCI 4110   | POLITICAL PSYCHOLOGY (^)  |
| PSYC/BLST 4150   | AFRICAN AMERICAN PSYCHOLOGY (** ^)                                |
| PSYC/PHIL 4250   | LIMITS OF CONSCIOUSNESS (^)                                       |
| PSYC 4680  | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)                     |
| PSYC 4960  | INDEPENDENT STUDY IN PSYCHOLOGY (^)                               |
| PSYC 4990  | SENIOR THESIS (^) <sup>1</sup>                                    |
| <b>Select one 3-credit (PSYC) Psychology Laboratory course at the 4000 Level</b>   |   |
| PSYC 4024  | LABORATORY IN PSYCHOLOGY: LEARNING (^)                            |
| PSYC 4074  | LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (^) |
| PSYC 4234  | LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)             |
| PSYC/BIOL 4280   | ANIMAL BEHAVIOR LABORATORY (^)                                    |
| PSYC 4414  | LABORATORY IN APPLIED BEHAVIOR ANALYSIS (^)                       |
| PSYC 4544  | LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (^)                        |
| PSYC 4644  | LABORATORY IN PSYCHOLOGY: SOCIAL/ INDUSTRIAL-ORGANIZATIONAL (^)   |
| PSYC 4990  | SENIOR THESIS <sup>2</sup>  |
| <b>Select two 3-credit (PSYC) Psychology courses at the 3000-4000 level. Courses taken for the selected concentration can also be applied toward this requirement. See an advisor to plan accordingly.</b> |   |
| <b>College Breadth (choose one option)</b>   |   |
| <b>15-30+</b>  |   |

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### **Bachelor Science Cognate Requirement**

**15**

Students pursuing a BS in psychology must complete 15 credit hours of a cognate set of courses. Students will select one of the five cognate sets below. Course selection must include at least two different departments or programs. No more than 6 hours of courses may be at the 1000 level, with the remaining 9 hours taken at the 2000 level or above. Students may take a minor in place of the cognate under the following circumstances:  
1) Students pursuing Option 1 College Requirements, which requires a minor, must take a second minor to satisfy the cognate requirement; OR 2) Students pursuing Option 2 College Requirements, which require additional general education courses, may add a minor to satisfy the cognate requirement.

#### **Advocacy, Ethics, Social Justice & Law**

|                     |   |
|---------------------|---|
| BSAD 3600           | BUSINESS ETHICS (^)                                 |
| CMST 1110           | PUBLIC SPEAKING FUNDS (**)                          |
| CMST 2120           | ARGUMENTATION AND DEBATE (**)                       |
| CRCJ 1010           | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)        |
| CRCJ 3310           | CRIMINAL LAW (^)                                    |
| CRCJ 3380           | POWER, PERCEPTION, AND PUNISHMENT (** ^)            |
| CRCJ 3390           | WOMEN, CRIME AND JUSTICE (** ^)                     |
| GEOG/ENVN/BIOL 4820 | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |
| HIST 4340           | U.S. CONSTITUTIONAL HISTORY SINCE 1860 (^)          |
| PHIL 1210           | CRITICAL REASONING (**)                             |
| PHIL 2030           | INTRODUCTION TO ETHICS (**)                         |
| PHIL 3040           | PHILOSOPHY OF LAW (^)                               |
| PSCI 1100           | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)   |
| PSCI 2110           | INTRODUCTION TO PUBLIC POLICY (**)                  |
| PSCI 2180           | INTRODUCTION TO LAW (**)                            |
| PSCI 4140           | CONSTITUTIONAL LAW: CIVIL RIGHTS (^)                |
| PSCI 4190           | CONSTITUTIONAL LAW: CIVIL LIBERTIES (^)             |
| RELU 3460           | REAL ESTATE LAW (^)                                 |
| SOC 1010            | INTRODUCTORY SOCIOLOGY (**)                         |
| SOC 3700            | INTRODUCTION TO LGBTQ STUDIES (** ^)                |
| SOC 4740            | SOCIAL JUSTICE AND SOCIAL CHANGE (^)                |

#### **Artistic and Literary Perspectives**

|          |  |
|----------|--|
| ART 1010 | ART APPRECIATION (** ^)                |
| ART 3780 | HISTORY OF ARCHITECTURE SINCE 1850 (^) |



|   |   |
|---|---|
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                    |
| BLST 2510                                       | MUSIC AND THE BLACK EXPERIENCE (**)                     |
| ENGL 2110                                       | INTRODUCTION TO CREATIVE NONFICTION WRITING (** ^)      |
| ENGL 2280                                       | INTRODUCTION TO LANGUAGE (** ^)                         |
| ENGL 2310                                       | INTRODUCTION TO BRITISH LITERATURE I (** ^)             |
| ENGL 2320                                       | INTRODUCTION TO BRITISH LITERATURE II (** ^)            |
| ENGL 2450                                       | AMERICAN LITERATURE I (** ^)                            |
| ENGL 2460                                       | AMERICAN LITERATURE II (** ^)                           |
| ENGL 3130                                       | AMERICAN NONFICTION (** ^)                              |
| JMC 3700  | VISUAL COMMUNICATION AND CULTURE (** ^)                 |
| PHIL 3060                                       | VALUES AND VIRTUES                                      |
| PHIL 3220                                       | PHILOSOPHY OF ART (^)                                   |
| KINS 3110                                       | INTRODUCTION TO DANCE                                   |
| RELI 1010                                       | RELIGIONS OF THE WORLD (**)                             |
| RELI 2010                                       | RELIGION AND CRITICAL THOUGHT (^)                       |
| THEA 1050                                       | FILM HISTORY AND APPRECIATION (**)                      |
| THEA 3760                                       | THEATRE HISTORY AND LITERATURE:MODERN / 1850-2000 (^)   |
| WRWS 3500                                       | CREATIVE WRITING FOR THE ARTS (** ^)                    |
| <b>Global Culture &amp; Diverse Populations</b> |   |
| ART 1040  | GLOBAL INDIGENOUS ART (**)                              |
| BLST 1000                                       | INTRODUCTION TO BLACK STUDIES (**)                      |
| BLST 2420                                       | AFRICAN-AMERICAN HISTORY II: 1865-1954 (**)             |
| BLST 2430                                       | AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY (**)     |
| CMST 4570                                       | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (** ^) |
| CMST 4580                                       | COMMUNICATING RACE, ETHNICITY & IDENTITY (** ^)         |
| CRCJ 3380                                       | POWER, PERCEPTION, AND PUNISHMENT (** ^)                |
| CRCJ 4750                                       | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^)   |
| ENGL 2230                                       | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)     |
| ENGL 2260                                       | BLACK SHORT STORY (** ^)                                |
| ENGL 2470                                       | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)             |
| ENGL 2490                                       | LATINO/A LITERATURE (** ^)                              |
| ENGL 3280                                       | IRISH LITERATURE I (** ^)                               |
| ENGL 3290                                       | IRISH LITERATURE II (** ^)                              |
| ENGL 1150                                       | ENGLISH COMPOSITION I (** ^)                            |
| LLS 1000  | LATIN AMERICA: AN INTRODUCTION (**)                     |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD (**)                      |
| PHHB 4650                                       | GLOBAL HEALTH (**)                                      |
| RELI 2020                                       | RELIGION AND HUMAN RIGHTS (**)                          |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)                    |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)            |
| SOWK 2120                                       | RACE, CLASS AND GENDER IN THE UNITED STATES (**)        |

|   |  |
|---|--|
| SPED 1500   | INTRODUCTION TO SPECIAL EDUCATION (** ^)                   |
| <b>Health and Science Explorations</b>                  |  |
| BIOL 1060   | INTRODUCTION TO MEDICAL CAREERS & ETHICS                   |
| BIOL 1450   | BIOLOGY I (** ^)   |
| BIOL 1750   | BIOLOGY II (^)   |
| BIOL 2060   | ART AND SCIENCE OF MEDICAL DECISION-MAKING (^)             |
| BIOL 2140   | GENETICS (^)   |
| BIOL 3240   | INTRODUCTION TO IMMUNOLOGY (^)                             |
| BIOL 4890   | GENES, BRAIN, AND BEHAVIOR (^)                             |
| CMST 3750   | GENDER AND COMMUNICATION (**)                              |
| CMST 4220   | HEALTH COMMUNICATION (^)                                   |
| GERO 2000   | INTRODUCTION TO GERONTOLOGY (**)                           |
| GERO/BIOL 3500  | BIOLOGICAL PRINCIPLES OF AGING (^)                         |
| GERO 4550   | HEALTH ASPECTS OF AGING                                    |
| PHHB 1500   | FOUNDATIONS IN PUBLIC HEALTH (**)                          |
| PHHB 2310   | HEALTHFUL LIVING   |
| PHHB 4700   | WOMEN'S HEALTH AND ISSUES OF DIVERSITY (**)                |
| PHHB 4880   | PUBLIC HEALTH POLICY (^)                                   |
| PHHB 4950   | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)                  |
| NEUR 1520   | INTRODUCTION TO NEUROSCIENCE I (^)                         |
| NEUR 1540   | INTRODUCTION TO NEUROSCIENCE II (^)                        |
| PHIL 2300   | BIOMEDICAL ETHICS  |
| PHIL 3400   | PHILOSOPHY OF NATURAL SCIENCE (^)                          |
| PHIL 4220   | NEUROETHICS (^)  |
| RELI 2500   | SPIRITUALITY AND WELLNESS (^)                              |
| <b>May choose only 1 of the following MATH courses:</b> |  |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| MATH 1940   | CALCULUS FOR BIOMEDICINE (^)                               |
| MATH 1950   | CALCULUS I (^)   |
| <b>Work Technology &amp; Communication</b>              |  |
| CMST 2010   | INTERPERSONAL COMMUNICATION (**)                           |
| CMST 4220   | HEALTH COMMUNICATION (^)                                   |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES (** ^)                         |
| CSCI 4260   | USER EXPERIENCE DESIGN (^)                                 |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |
| ECON 4340   | ECONOMICS OF TECHNOLOGY (^)                                |
| ENGL 3050   | WRITING FOR THE WORKPLACE (^)                              |
| ENGL 4830   | TECHNICAL COMMUNICATION (^)                                |
| MGMT 1500   | INTRODUCTION TO BUSINESS (**)                              |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |
| MGMT 4090   | MANAGING COLLABORATIVE ENGAGEMENT (^)                      |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)                                 |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)                              |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY (^)                       |
| SOC 3800  | WORK AND SOCIETY (^)                                       |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

- <sup>1</sup> Senior Thesis Part I: Thesis Proposal (**first 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.
- <sup>2</sup> Senior Thesis Part II: Data Analysis, Interpretations and Conclusions (**second 3 of 6 credit hours**). Requires special permission from a faculty member and the student must meet the Psychology Senior Thesis criteria.

## Psychology Minor

### Psychology, Minor Requirements

An undergraduate minor in psychology may be earned by completing the following:

| Code   | Title                        | Credits   |
|--|------------------------------|-----------|
| PSYC 1010  | INTRODUCTION TO PSYCHOLOGY I | 3         |
| Select 12 hours of upper division (3000 or 4000 level) Psychology courses. |                              | 12        |
| <b>Total Credits</b>   |                              | <b>15</b> |

A grade of "C-" or better must be earned in all courses submitted for a minor in Psychology, with at least 9 credits taken in residence at UNO.

## Religious Studies

"Religious studies" introduces students to the academic study of religion and spirituality as well as the variety of religious traditions around the world (e.g., Hinduism, Buddhism, and Sikhism; Judaism, Christianity, and Islam; Chinese religious traditions; Indigenous religious traditions in North America and in Africa; atheism and agnosticism, pagan and other nature-based traditions). Students with a particular thematic interest may pursue the study of "religion and film," "spirituality and wellness," and/or "religion and human rights." Because religion is deeply implicated in history, culture, politics, literature, and medicine, the study of religion is critical to understanding and explaining complex global issues in both the past and the present. One does not have to be "religious" or "spiritual" to study religion, nor is the study of religion directed toward establishing the truth of one religion over another.

To major in religion (i.e., religious studies) means to engage some of the most profound questions people ask themselves: What does it mean to be human? How are we part of a world of animals and plants, water and earth? What are our responsibilities to other persons and the earth? How do we make decisions about fundamental individual and social issues? Is there a world of invisible agents (e.g., ancestors, spirits, gods, and God) or ultimate meaning and value? If so, what difference does it make? With these questions in mind, we pursue the academic study of religion and spirituality from a variety of theoretical and methodological perspectives, including anthropology, archaeology, cognitive sciences, fine arts, history, philosophy, psychology, sociology, and textual analysis.

Because religious studies is an interdisciplinary field of study, students may use the major in religion in many different ways: as preparation for graduate school; as a stand-alone or second major in a program of study leading to a career in business, healthcare, public service, social services, or teaching; or, simply and most profoundly, to enrich personal knowledge and skills and understanding of others. Students commonly combine religious studies with another major or minor to improve their cultural awareness and enhance their career and civic life.

Consistent with this interdisciplinary emphasis, religious studies faculty teach courses supporting a variety of major and minor programs, including ancient Mediterranean studies, international studies, Islamic studies,

Medieval and Renaissance studies, Latino/a Latin American studies, Native American studies, women's and gender studies, medical humanities, and human rights studies.

Underlying the practical applications in different fields and professions, the basic intellectual purpose of religious studies is to develop an appreciation for, an understanding of, and a critical insight into the rich variety of the world's religious and spiritual traditions in the complex global realities (cultural, social, economic, political, and environmental) of the twenty-first century.

## Other Information

All coursework taken for the Religion major or minor must be completed with a grade of "C-" or better.

## Online Option

The Religion major and minor are both flexible programs, offering students the option to earn either while taking courses in-person on UNO's campus, entirely online, or as a combination of the two.

## Contact

205 Arts and Sciences Hall  
402.554.2628

**Website (<http://www.unomaha.edu/college-of-arts-and-sciences/religion/>)**

## Degrees Offered

- Religion, Bachelor of Arts (p. 346)

## Minors Offered

- Religion Minor (p. 348)

Religious Studies majors graduate with valuable knowledge and skills, including opportunities to gain experience through service learning classes and internships. A major in Religious Studies at UNO cultivates skills that employers say are particularly important: written and verbal communication, problem-solving, teamwork, and leadership. In diverse professional roles, Religious Studies alums find their knowledge of religious, spiritual, and other cultural traditions extremely helpful in their ability to communicate clearly and respectfully with diverse coworkers, managers, patients, clients, family, and friends.

These advantages can propel students into a number of different careers:

- business
- counseling
- education
- healthcare
- public service
- social services
- writer and/or poet.

UNO Religious Studies graduates may move into masters and doctoral level work in any one of many different fields (e.g., history, political science, sociology/anthropology, social work, etc.). The majority of our graduates have taken their knowledge and experience into a spectrum of careers and professions. Some of these careers currently pursued by graduates, and other former students, of Religious Studies at UNO include:

- accountant
- business owner
- chaplain
- farmer

- musician
- librarian
- non-profit administrator
- physician
- poet and writer
- and university professor

Religion, Bachelor of Arts

To obtain a B.A. with a major in Religious Studies, a student must fulfill university, college, and departmental requirements.

Religion, Bachelor of Arts Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |  |           |
| Minimum of "C-" required  |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                      |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                  |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                      |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| <b>Religion Major - 30 Hours Required</b>   |  |           |
| ^Course requires prerequisite(s)  |  |           |
| <b>Required Coursework</b>  |  | <b>9</b>  |
| RELI 1010   | RELIGIONS OF THE WORLD (**)                                |           |
| RELI 2010   | RELIGION AND CRITICAL THOUGHT (^)                          |           |
| RELI 4010   | SENIOR SEMINAR IN RELIGION (^, or equivalent, as approved) |           |

|   |               |
|---|---------------|
| <b>Select any additional 3-credit (RELI) Religion course at the 1000 or 2000 level*</b>   | <b>3</b>      |
| *Students are encouraged but not required to satisfy this requirement by taking courses in the RELI 2100-RELI 2189 Range (Scriptural traditions). |               |
| <b>Select six additional 3-credit (RELI) Religion courses at the 3000-4000 Level</b>  | <b>18</b>     |
| <b>College Breadth (choose one option)</b>  | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours   |               |
| Option 2: Additional General Education Requirements - 18+ hours   |               |
| Additional quantitative literacy - 3 hours  |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours  |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |               |
| HIST 1000 and HIST 1010 - 6 hours   |               |
| Additional Nat. and Physical Science with or without Lab - 3-5 hours  |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)   |               |
| <b>Bachelor of Arts Language Requirement</b>  | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120   |               |
| <b>ELECTIVES</b>  |               |
| Elective hours as required to reach a total of 120 hours.   |               |

Religion, Bachelor of Arts Four Year Plan

| Freshman  |   | Credits      |
|---|---|--------------|
| <b>Fall</b>   |   |              |
| ENGL 1150   | ENGLISH COMPOSITION I                                   | 3            |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING | 3-4          |
| or MATH 1130  | or QUANTITATIVE LITERACY                                |              |
| or MATH 1140  | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS  |              |
| or MATH 1300  | or COLLEGE ALGEBRA WITH SUPPORT                         |              |
| RELI 1010   | RELIGIONS OF THE WORLD                                  | 3            |
| World Language Course I   |   | 5            |
| Attend Durango Days; other campus events  |   |              |
| Set up a Handshake account and take the Pathway U career assessment.                              |   |              |
| Attend the Student Involvement & Volunteer Fair to explore student organizations.                 |   |              |
| Make advising appointment for spring: Sept-Oct  |   |              |
| <b>Credits</b>  |   | <b>14-15</b> |
| <b>Spring</b>   |   |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   | 3            |
| or CMST 2120  | or ARGUMENTATION AND DEBATE                             |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               | 3            |
| Scriptural Traditions Course RELI 2100-2189 or any other 1000-2000 level RELI course              |   | 3            |
| World Language Course II  |   | 5            |
| Attend campus events such as major exploration week to get an idea of interests and career paths. |   |              |
| Schedule a resume review with UNO Career Services.  |   |              |

Visit faculty office hours and ask about undergraduate research opportunities.

Make advising appointment for summer and fall: February – March. - March

**Credits** **14**

### Sophomore

#### Fall

|                                      |                                   |     |
|--------------------------------------|-----------------------------------|-----|
| RELI 2010                            | RELIGION AND CRITICAL THOUGHT (*) | 3   |
| World Language Course III            |                                   | 3   |
| General Education Course or Elective |                                   | 3-4 |
| General Education Course or Elective |                                   | 3   |
| General Education Course or Elective |                                   | 3   |

Attend the Career & Internship Fair to start networking with employers.

Look for volunteer, research, or part-time work to gain experience.

Join a student organization or club related to your field or interests.

Make advising appointment for spring: Sept. - Oct.

**Credits** **15-16**

#### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| World Language Course IV             |  | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |
| Elective                             |  | 3 |

Attend a career fair for informational and networking purposes.

Update your resume and LinkedIn profile with new experiences.

Investigate and apply for summer internships, research, or study abroad programs.

Make advising appointment for fall: February - March.

**Credits** **15**

### Junior

#### Fall

|                             |  |   |
|-----------------------------|--|---|
| RELI course 3000-4000 Level |  | 3 |
| Elective                    |  | 3 |
| Elective                    |  | 3 |
| Elective                    |  | 3 |
| Elective                    |  | 3 |

Apply for a paid internship or research assistantship.

Attend a mock interview workshop or use online interview tools with Career Services.

Start researching and visiting graduate programs or professional schools.

Visit Career Center, continue updating resume.

Make advising appointment for spring: Sept-Oct.

**Credits** **15**

#### Spring

|                             |  |   |
|-----------------------------|--|---|
| RELI course 3000-4000 Level |  | 3 |
| RELI course 3000-4000 Level |  | 3 |
| Elective                    |  | 3 |
| Elective                    |  | 3 |
| Elective                    |  | 3 |

Request letters of recommendation from faculty for jobs or grad school.

Attend the All-Majors Career Fair with a plan to network.

Meet with your advisor or submit for a graduation check-in to review remaining degree requirements.

Make advising appointment for summer and fall: February – March.

**Credits** **15**

### Senior

#### Fall

|                             |  |   |
|-----------------------------|--|---|
| RELI course 3000-4000 Level |  | 3 |
| RELI course 3000-4000 Level |  | 3 |
| Elective                    |  | 3 |
| Elective                    |  | 3 |
| Elective                    |  | 3 |

Check in with Career Center for networking tips.

Finalize graduate school applications or job search strategy.

Attend a career fair and start applying for full-time jobs.

Prepare for interviews and salary negotiations with Career Services.

Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

#### Spring

|                             |                            |   |
|-----------------------------|----------------------------|---|
| RELI 4010                   | SENIOR SEMINAR IN RELIGION | 3 |
| RELI course 3000-4000 Level |                            | 3 |
| Elective                    |                            | 3 |
| Elective                    |                            | 3 |
| Elective                    |                            | 3 |
| Elective                    |                            | 1 |

Complete your final advising check before graduation.

Polish your resume, cover letters, and LinkedIn profile.

Stay connected by joining alumni networks and professional organizations.

Apply for graduation via MavLink.

**Credits** **16**

**Total Credits** **119-121**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>  
Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career

advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Religion Minor

### Religion Minor Requirements

An undergraduate minor in religion will consist of at least 15 hours in religion, of which at least nine must be upper division (3000-level or above). RELI 1010 is strongly recommended for the minor in religion.

The religion minor may be earned on campus or entirely online.

## Sociology & Anthropology

Sociology and Anthropology are the broadest of the social sciences. Sociology is the scientific study of human relationships. Sociologists seek to understand the ways that often unseen social forces shape our lives. Anthropology is the holistic study of human biology and culture across time and place. Anthropologists typically work within one of four sub-disciplines: archaeology, biological anthropology, linguistic anthropology, and socio-cultural anthropology.

These disciplines are particularly useful to graduates entering the 21st century labor force. Our rapidly changing and increasingly diverse world offers both opportunities and monumental challenges. Sociology and Anthropology give students the analytical skills to understand such challenges and the tools to improve our society at all levels – from the neighborhood to the world community.

## Other Information

All coursework taken for the Sociology major, minor, and Anthropology minor must be completed with a grade of "C" or better.

Up to six ANTH credits may be double counted toward the minor in anthropology and the major in sociology.

UNO Sociology Club – open to all students interested in discussing all things sociological!

UNO Student Anthropology Society – bring yourself, your lunch, and your interest in Anthropology!

Alpha Kappa Delta (AKD) – the Alpha Chapter of Nebraska of the International Sociological Honor Society for students who meet certain academic requirements.

For more information visit our Student Organizations (<https://www.unomaha.edu/college-of-arts-and-sciences/sociology-and-anthropology/student-opportunities/student-organizations.php>) page.

## Option for Degree Completion

### Fast Track Program

The Department of Sociology & Anthropology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- This program is available for undergraduate students pursuing a Sociology BA/BS major who desire to pursue a Sociology MA degree.
- Students must have completed no less than 60 undergraduate hours.

- Students must have a minimum undergraduate GPA of 3.0 and a GPA of 3.3 in SOC and ANTH courses.
- Students must complete the Fast Track Approval form, obtain all signatures, and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
  - ANTH 1050, SOC 1010, SOC 2120, SOC 2130, SOC 2134 should be completed before enrolling in the first graduate course.
  - SOC 3510 and SOC 3514 should be taken before or concurrently with enrollment in the first graduate course.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status, including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived; the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Contact

383 Arts and Sciences Hall  
402.554.2626

Website (<http://www.unomaha.edu/college-of-arts-and-sciences/sociology-and-anthropology/>)

## Degrees Offered

- Sociology, Bachelor of Arts (p. 349)
- Sociology, Bachelor of Science (p. 355)

## Bachelor of Arts (BA) and Bachelor of Science (BS) in Sociology

Students are required to complete 33 hours of coursework for the Sociology BA or BS degree: 21 hours of core required courses and 12 hours of additional sociology or anthropology courses. The department offers five optional concentrations that fulfill the 12 hours of additional coursework: anthropology, families and inequality, health and society, inequality and social justice, and work and organizations.

Students in the BA degree program are required to complete foreign language through the intermediate level.

Students in the BS degree program are required to complete 15 hours of cognate coursework, a field of specialization outside of sociology based on their interests and/or career aspirations. Cognates are designed by the student in consultation with the undergraduate adviser.

## Online option

The Sociology BA/BS is available on campus or entirely online. Earning a concentration is not required, but online majors do have the option to select the health and society or work and society concentration.



## Minors Offered

- Sociology Minor (p. 362)
- Anthropology Minor (p. 362)

Both the sociology and anthropology minors are available on campus or entirely online.

Sociology is the scientific study of social life that reveals the ways that often unseen social forces shape our lives. Anthropology is the holistic study of human biology and culture across time and place. At a fundamental level, both sociology and anthropology invite us to break through our common sense ideas about the world, allowing us to better understand and potentially improve society. Students who study sociology and anthropology will gain a distinct perspective on social inequality, patterns of behavior, forces for social change and resistance, and how social systems work.

Sociology majors learn the analytical skills needed to understand the challenges of a rapidly changing and increasingly diverse world. And they graduate with the tools to improve our societies at all levels – from the neighborhood to the global community. That’s because a degree in sociology provides students with a well-rounded liberal arts education that emphasizes critical thinking, decision-making skills, and the ability to make connections across disciplines, leading to potential careers in:

- Family and Social Services Program Support
- Business Management and Leadership
- Marketing Analysis and Research
- Survey Research
- Health and Human Services
- Health Care Administration
- Nonprofit Organizational Administration
- Criminal Justice

## Sociology, Bachelor of Arts

### Sociology, Bachelor of Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of “C-” required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### **Breadth of Knowledge 13**

|   |
|---|
| Social Science – 3 hrs.                                   |
| Humanities – 3 hrs.                                       |
| Natural & Physical Science (must complete a lab) – 4 hrs. |
| Arts – 3 hrs.   |

#### **Individual and Social Responsibility 6**

|   |
|---|
| Cultural Knowledge – 3 hrs.             |
| Civic Knowledge and Engagement – 3 hrs. |

#### **MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### **Sociology Major - 33 Hours Required**

#### **Required Coursework 21**

|           |                                   |
|-----------|-----------------------------------|
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)     |
| ANTH 1050 | INTRODUCTION TO ANTHROPOLOGY (**) |
| SOC 2120  | SOCIOLOGICAL THEORY (^)           |
| SOC 2130  | SOCIAL STATISTICS (^)             |
| SOC 2134  | SOCIAL STATISTICS LAB (^)         |
| SOC 3510  | RESEARCH METHODS (^)              |
| SOC 3514  | RESEARCH METHODS LAB (^)          |
| SOC 4900  | SENIOR THESIS (^)                 |

#### **Additional Courses**

Select one of the following options: 12

##### **Option 1:**

Select one upper-level ANTH course (3 credits)  
Select three upper-level SOC courses (9 credits)

##### **Option 2:**

Select a concentration (12 credits)

#### **College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |
| HIST 1000 and HIST 1010 - 6 hours                                    |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### **Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

#### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Sociology, Bachelor of Arts Concentrations

- Anthropology (p. 351)
- Families and Inequality (p. 352)
- Health and Society (p. 353)
- Inequality and Social Justice (p. 353)
- Work and Organizations (p. 354)

## Sociology, Bachelor of Arts Four Year Plan

### Freshman

| Fall  |  | Credits      |
|---|--|--------------|
| SOC 1010  | INTRODUCTORY SOCIOLOGY                                 | 3            |
| ENGL 1150   | ENGLISH COMPOSITION I (***)                            | 3            |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL                           | 3-4          |
| or MATH 1130  | AND COMPUTATIONAL THINKING                             |              |
| or MATH 1140  | or QUANTITATIVE LITERACY                               |              |
| or MATH 1300  | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |              |
|   | or COLLEGE ALGEBRA WITH SUPPORT                        |              |
| World Language 1110   |  | 5            |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |              |
| <b>Credits</b>  |  | <b>14-15</b> |

### Spring

|  |   |           |
|--|---|-----------|
| ANTH 1050  | INTRODUCTION TO ANTHROPOLOGY              | 3         |
| World Language 1120  |   | 5         |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| General Education Course or Elective   |   | 4         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |
| <b>Credits</b>   |   | <b>15</b> |

### Sophomore

| Fall   |                             | Credits   |
|--|-----------------------------|-----------|
| SOC 2120   | SOCIOLOGICAL THEORY         | 3         |
| General Education Course or Elective   |                             | 3         |
| General Education Course or Elective   |                             | 3         |
| CMST 1110  | PUBLIC SPEAKING FUNDS       | 3         |
| or CMST 2120   | or ARGUMENTATION AND DEBATE |           |
| World Language 2110  |                             | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                             |           |
| <b>Credits</b>   |                             | <b>15</b> |
| Spring   |                             | Credits   |
| SOC 2130   | SOCIAL STATISTICS           | 3         |
| SOC 2134   | SOCIAL STATISTICS LAB       | 1         |

|  |    |
|--|----|
| World Language 2120  | 3  |
| General Education Course or Elective   | 3  |
| General Education Course or Elective   | 3  |
| Elective   | 3  |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |    |
| Credits  | 16 |

### Junior

| Fall   |                      | Credits   |
|--|----------------------|-----------|
| ANTH 3000+   |                      | 3         |
| SOC 3000+  |                      | 3         |
| SOC 3510   | RESEARCH METHODS     | 3         |
| SOC 3514   | RESEARCH METHODS LAB | 1         |
| General Education Course or Elective   |                      | 3         |
| Elective   |                      | 3         |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |                      |           |
| <b>Credits</b>   |                      | <b>16</b> |

### Spring

|  |   |
|--|---|
| SOC 3000+  | 3 |
| SOC 3000+  | 3 |
| Elective   | 3 |
| Elective   | 3 |
| Elective   | 3 |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |   |

### Senior

| Fall   |               | Credits      |
|--|---------------|--------------|
| Elective   |               | 3            |
| Elective   |               | 3-4          |
| Elective   |               | 3            |
| Elective   |               | 3            |
| Elective   |               | 3            |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |               |              |
| <b>Credits</b>   |               | <b>15-16</b> |
| Spring   |               | Credits      |
| SOC 4900   | SENIOR THESIS | 4            |
| Elective   |               | 3            |
| Elective   |               | 3            |
| Elective   |               | 3            |
| Elective   |               | 1            |

Complete your final advising check before graduation.  
Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

|                      |                |
|----------------------|----------------|
| <b>Credits</b>       | <b>14</b>      |
| <b>Total Credits</b> | <b>120-122</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Anthropology

### Sociology, Bachelor of Arts with a Concentration in Anthropology

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Sociology Major with a Concentration in Anthropology - 33 Hours Required

#### Required Coursework 30

ANTH 1050 INTRODUCTION TO ANTHROPOLOGY (\*\*)

ANTH 3910 INTRODUCTION TO PHYSICAL ANTHROPOLOGY (\*\* ^)

ANTH 3920 ESSENTIALS OF ARCHAEOLOGY (^)

ANTH 4210 CULTURAL ANTHROPOLOGY (^)

SOC 1010 INTRODUCTORY SOCIOLOGY (\*\* ^)

SOC 2120 SOCIOLOGICAL THEORY (^)

SOC 2130 SOCIAL STATISTICS (^)

SOC 2134 SOCIAL STATISTICS LAB (^)

SOC 3510 RESEARCH METHODS (^)

SOC 3514 RESEARCH METHODS LAB (^)

SOC 4900 SENIOR THESIS (^)

#### Select one from the following 3

ANTH 3210 AFRICAN PEOPLES AND CULTURES (^)

ANTH 3220 PEOPLES AND CULTURES OF NATIVE NORTH AMERICA (^)

ANTH 3260 WORLD CULTURES AND PEOPLES (^)

ANTH 4220 NORTH AMERICAN ARCHAEOLOGY (^)

ANTH 4230 ETHNOMEDICINES OF THE AMERICAS (^)

ANTH 4240 MEDICAL ANTHROPOLOGY

ANTH 4250 ENVIRONMENTAL ANTHROPOLOGY AND NATIVE PEOPLES OF THE GREAT PLAINS (^)

ANTH 4260 TOPICS IN CULTURAL ANTHROPOLOGY (^)

ANTH 4280 CLINICAL ETHNOGRAPHY (^)

ANTH 4290 DRUG USE, ADDICTION, & CULTURE (^)

ANTH 4920 SEMINAR IN ANTHROPOLOGY (^)

ANTH 4940 ARCHAEOLOGICAL FIELD METHODS (^)

ANTH 4990 INDEPENDENT STUDY IN ANTHROPOLOGY (^)

#### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|   |
|---|
| Additional quantitative literacy - 3 hours  |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |
| HIST 1000 and HIST 1010 - 6 hours   |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |
| <b>Bachelor of Arts Language Requirement</b> <b>16</b>                            |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |
| <b>ELECTIVES</b>  |
| Elective hours as required to reach a total of 120 hours                          |

## Families and Inequality

### Sociology, Bachelor or Arts with a Concentration in Families and Inequality Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |

### Sociology Major with a Concentration in Families and Inequality - 33 Hours Required

|   |   |               |
|---|---|---------------|
| <b>Required Coursework</b>  |   | <b>27</b>     |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (**^)  |               |
| ANTH 1050   | INTRODUCTION TO ANTHROPOLOGY (**)   |               |
| SOC 2120  | SOCIOLOGICAL THEORY (^)   |               |
| SOC 2130  | SOCIAL STATISTICS (^)   |               |
| SOC 2134  | SOCIAL STATISTICS LAB (^)   |               |
| SOC 3510  | RESEARCH METHODS (^)  |               |
| SOC 3514  | RESEARCH METHODS LAB (^)  |               |
| SOC 4150  | AMERICAN FAMILY PROBLEMS (^)  |               |
| ANTH 4210   | CULTURAL ANTHROPOLOGY (^)   |               |
| SOC 4900  | SENIOR THESIS (^)   |               |
| <b>Select two 3-credit courses from the following*</b>  |   | <b>6</b>      |
| SOC 3840  | WORLD POPULATION AND SOCIAL ISSUES (** ^)   |               |
| SOC 4170  | SOCIOLOGY OF FATHERHOOD (^)   |               |
| SOC 4350  | WORK & FAMILY (^)   |               |
| SOC 4800  | CONTEMPORARY TOPICS IN SOCIOLOGY (^ When topic is relevant to the concentration and by approval of major advisor) |               |
| ANTH 4920   | SEMINAR IN ANTHROPOLOGY (^ When topic is relevant to the concentration and by approval of major advisor)          |               |
| <b>*One of the following courses may be substituted for one of the "select two" courses listed above:</b> |   |               |
| SOC 3300  | SOCIOLOGY OF GENDER (** ^)  |               |
| SOC 3690  | SOCIAL INEQUALITY (^)   |               |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)  |               |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)  |               |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours                                 |   |               |
| Option 2: Additional General Education Requirements - 18+ hours   |   |               |
| Additional quantitative literacy - 3 hours  |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours                                      |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |   |               |
| HIST 1000 and HIST 1010 - 6 hours   |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours  |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)                         |   |               |
| <b>Bachelor of Arts Language Requirement</b>  |   | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120   |   |               |
| <b>ELECTIVES</b>  |   |               |
| Elective hours as required to reach a total of 120 hours  |   |               |

# Health and Society

## Sociology, Bachelor of Arts with a Concentration in Health and Society Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Sociology Major with a Concentration in Health and Society - 33 Hours Required</b>   |   |           |
| <b>Required Coursework</b>  |   | <b>27</b> |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)                           |           |
| ANTH 1050   | INTRODUCTION TO ANTHROPOLOGY (**)                       |           |
| SOC 2120  | SOCIOLOGICAL THEORY (^)                                 |           |
| SOC 2130  | SOCIAL STATISTICS (^)                                   |           |
| SOC 2134  | SOCIAL STATISTICS LAB (^)                               |           |
| SOC 3510  | RESEARCH METHODS (^)                                    |           |
| SOC 3514  | RESEARCH METHODS LAB (^)                                |           |
| SOC 3820  | MEDICAL SOCIOLOGY (** ^)                                |           |
| ANTH 4240   | MEDICAL ANTHROPOLOGY (^)                                |           |
| SOC 4900  | SENIOR THESIS (^)                                       |           |

### Select two 3-credit courses from the following\* 6

|   |   |
|---|---|
| SOC 3840  | WORLD POPULATION AND SOCIAL ISSUES (** ^)   |
| SOC 4200  | SOCIOLOGY OF THE BODY (^)   |
| SOC 4440  | HUMAN CONNECTION, LONELINESS, & HEALTH (^)  |
| SOC/PHHB 4700   | WOMEN'S HEALTH AND ISSUES OF DIVERSITY  |
| SOC 4800  | CONTEMPORARY TOPICS IN SOCIOLOGY (^ When topic is relevant to the concentration and by approval of major advisor) |
| SOC 4830  | SOCIOLOGY OF MENTAL HEALTH & ILLNESS (^)  |
| ANTH 4230   | ETHNOMEDICINES OF THE AMERICAS (^)  |
| ANTH 4920   | SEMINAR IN ANTHROPOLOGY (^ When topic is relevant to the concentration and by approval of major advisor)          |
| ANTH 4280   | CLINICAL ETHNOGRAPHY  |
| ANTH 4290   | DRUG USE, ADDICTION, & CULTURE  |
| <b>*One of the following courses may be substituted for one of the "select two" courses listed above:</b> |   |
| SOC 3300  | SOCIOLOGY OF GENDER (** ^)  |
| SOC 3690  | SOCIAL INEQUALITY (^)   |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)  |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)  |

### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |
| HIST 1000 and HIST 1010 - 6 hours                                    |

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

### Bachelor of Arts Language Requirement 16

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

# Inequality and Social Justice

## Sociology, Bachelor of Arts with a Concentration in Inequality and Social Justice Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of "C-" required                                  |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |



|   |   |
|---|---|
| <b>Writing – 6 hrs.</b>   |   |
| ENGL 1150   | ENGLISH COMPOSITION I   |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |
| <b>Oral Communication – 3 hrs.</b>  |   |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |
| STAT 1530   | ELEMENTARY STATISTICS   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Humanities – 3 hrs. Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>Sociology Major with a Concentration in Health and Society - 33 Hours Required</b>   |   |
| <b>Required Coursework</b>  | <b>24</b>   |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)   |
| ANTH 1050   | INTRODUCTION TO ANTHROPOLOGY (**)   |
| SOC 2120  | SOCIOLOGICAL THEORY (^)   |
| SOC 2130  | SOCIAL STATISTICS (^)   |
| SOC 2134  | SOCIAL STATISTICS LAB (^)   |
| SOC 3510  | RESEARCH METHODS (^)  |
| SOC 3514  | RESEARCH METHODS LAB (^)  |
| SOC 4740  | SOCIAL JUSTICE AND SOCIAL CHANGE (^)  |
| SOC 4900  | SENIOR THESIS (^)   |
| <b>Select three 3-credit courses from the following*</b>  | <b>9</b>  |
| SOC 3300  | SOCIOLOGY OF GENDER (** ^)  |
| SOC 3690  | SOCIAL INEQUALITY (^)   |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)  |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)  |
| <b>*One of the following courses may be substituted for one of the "select three" courses listed above:</b>   |   |
| SOC 3840  | WORLD POPULATION AND SOCIAL ISSUES (** ^)   |
| SOC 4140  | URBAN SOCIOLOGY (^)   |

|           |   |
|-----------|---|
| SOC 4210  | DISABILITY AND SOCIETY (^)  |
| SOC 4240  | SOCIAL TRANSFORMATIONS IN LATIN AMERICA (^)   |
| SOC 4250  | RESEARCHING LATIN AMERICAN MIGRATIONS (** ^)  |
| SOC 4310  | SOCIOLOGY OF SEXUALITIES (** ^)   |
| SOC 4760  | ENVIRONMENTAL SOCIOLOGY (^)   |
| SOC 4770  | POLITICAL SOCIOLOGY (^)   |
| SOC 4780  | URBAN LATIN AMERICA (** ^)  |
| SOC 4800  | CONTEMPORARY TOPICS IN SOCIOLOGY (^ When topic is relevant to the concentration and by approval of major advisor) |
| ANTH 4920 | SEMINAR IN ANTHROPOLOGY (^ When topic is relevant to the concentration and by approval of major advisor)          |

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Work and Organizations

### Sociology, Bachelor of Arts with a Concentration in Work and Organizations Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |  |           |
| Minimum of "C-" required                                  |  |           |
| <b>Fundamental Skills</b>                                 |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I  |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY  |           |
| <b>Oral Communication – 3 hrs.</b>                        |  |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy - 3 hrs.</b>                     |  |           |
| MATH 1120<br>or MATH 1130                                 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY |           |

|              |   |
|--------------|---|
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                        |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

|   |
|---|
| Social Science – 3 hrs.                                   |
| Humanities – 3 hrs.                                       |
| Natural & Physical Science (must complete a lab) – 4 hrs. |
| Arts – 3 hrs.   |

**Individual and Social Responsibility 6**

|   |
|---|
| Cultural Knowledge – 3 hrs.             |
| Civic Knowledge and Engagement – 3 hrs. |

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Sociology Major with a Concentration in Work and Organizations - 33 Hours Required****Required Coursework 27**

|           |                                      |
|-----------|--------------------------------------|
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)        |
| ANTH 1050 | INTRODUCTION TO ANTHROPOLOGY (**)    |
| SOC 2120  | SOCIOLOGICAL THEORY (^)              |
| SOC 2130  | SOCIAL STATISTICS (^)                |
| SOC 2134  | SOCIAL STATISTICS LAB (^)            |
| SOC 3510  | RESEARCH METHODS (^)                 |
| SOC 3514  | RESEARCH METHODS LAB (^)             |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY (^) |
| SOC 3800  | WORK AND SOCIETY (^)                 |
| SOC 4900  | SENIOR THESIS (^)                    |

**Select two 3-credit courses from the following\* 6**

|           |   |
|-----------|---|
| SOC 3840  | WORLD POPULATION AND SOCIAL ISSUES (** ^)   |
| SOC 4180  | OCCUPATIONS & CAREERS: FULFILLMENT AND CHALLENGES AT WORK (^)   |
| SOC 4350  | WORK & FAMILY (^)   |
| SOC 4550  | ORGANIZATIONAL DIVERSITY AND INCLUSION (^)  |
| SOC 4620  | APPLIED FORMAL ORGANIZATIONS (^)  |
| SOC 4800  | CONTEMPORARY TOPICS IN SOCIOLOGY (^ When topic is relevant to the concentration and by approval of major advisor) |
| ANTH 4210 | CULTURAL ANTHROPOLOGY (^)   |

\*One of the following courses may be substituted for one of the "select two" courses listed above:

|          |  |
|----------|--|
| SOC 3300 | SOCIOLOGY OF GENDER (** ^)                   |
| SOC 3690 | SOCIAL INEQUALITY (^)                        |
| SOC 3700 | INTRODUCTION TO LGBTQ STUDIES (** ^)         |
| SOC 3900 | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^) |

**College Breadth (choose one option) - 15-30+ Hours Required 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |
| HIST 1000 and HIST 1010 - 6 hours                                    |
| Additional Nat. and Physical Science w/ or without Lab - 43-5 hours  |

Option 3: CAS interdisciplinary major OR any UNO 2nd major - 30+ hours

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Sociology, Bachelor of Science

## Sociology, Bachelor of Science Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills 15****Writing – 6 hrs.**

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

|   |
|---|
| Social Science – 3 hrs.                                   |
| Humanities – 3 hrs.                                       |
| Natural & Physical Science (must complete a lab) – 4 hrs. |
| Arts – 3 hrs.   |

**Individual and Social Responsibility**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Sociology Major - 33 Hours Required****Required Coursework** **21**

SOC 1010 INTRODUCTORY SOCIOLOGY (\*\*)

ANTH 1050 INTRODUCTION TO ANTHROPOLOGY (\*\*)

SOC 2120 SOCIOLOGICAL THEORY (^)

SOC 2130 SOCIAL STATISTICS (^)

SOC 2134 SOCIAL STATISTICS LAB (^)

SOC 3510 RESEARCH METHODS (^)

SOC 3514 RESEARCH METHODS LAB (^)

SOC 4900 SENIOR THESIS (^)

**Additional Courses**Select one of the following options: **12****Option 1:**

Select one upper-level ANTH course (3 credits)

Select three upper-level SOC courses (9 credits)

**Option 2:**

Select a Concentration (12 credits)

**College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor Science Cognate Requirement** **15**

Students in the BS degree program are required to complete 15 hours of cognate coursework, a field of specialization outside of sociology based on their interests and/or career aspirations. Cognates are designed by the student in consultation with the undergraduate adviser.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**Sociology, Bachelor of Science Concentrations**

- Anthropology (p. 357)
- Families and Inequality (p. 358)
- Health and Society (p. 359)
- Inequality and Social Justice (p. 360)
- Work and Organizations (p. 361)

**6****Sociology, Bachelor of Science Four Year Plan****Freshman**

|   |  | Credits      |
|---|--|--------------|
| <b>Fall</b>   |  |              |
| SOC 1010  | INTRODUCTORY SOCIOLOGY                                 | 3            |
| General Education Course or Elective  |  | 3            |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL                           | 3-4          |
| or MATH 1130  | AND COMPUTATIONAL THINKING                             |              |
| or MATH 1140  | or QUANTITATIVE LITERACY                               |              |
| or MATH 1300  | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |              |
|   | or COLLEGE ALGEBRA WITH SUPPORT                        |              |
| ENGL 1150   | ENGLISH COMPOSITION I                                  | 3            |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                  | 3            |
| or CMST 2120  | or ARGUMENTATION AND DEBATE                            |              |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |  |              |
| <b>Credits</b>  |  | <b>15-16</b> |

**Spring**

|  |   |           |
|--|---|-----------|
| ANTH 1050  | INTRODUCTION TO ANTHROPOLOGY              | 3         |
| General Education Course or Elective   |   | 3         |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| General Education Course or Elective   |   | 4         |
| Elective   |   | 3         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |
| <b>Credits</b>   |   | <b>16</b> |

|  |                     |           |
|--|---------------------|-----------|
| <b>Sophomore</b>   |                     |           |
| <b>Fall</b>  |                     |           |
| SOC 2120   | SOCIOLOGICAL THEORY | 3         |
| General Education Course or Elective   |                     | 3         |
| General Education Course or Elective   |                     | 3         |
| Elective   |                     | 3         |
| Elective   |                     | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                     |           |
| <b>Credits</b>   |                     | <b>15</b> |

|                                      |                       |   |
|--------------------------------------|-----------------------|---|
| <b>Spring</b>                        |                       |   |
| SOC 2130                             | SOCIAL STATISTICS     | 3 |
| SOC 2134                             | SOCIAL STATISTICS LAB | 1 |
| Elective                             |                       | 3 |
| General Education Course or Elective |                       | 3 |
| BS Cognate Course                    |                       | 3 |
| Elective                             |                       | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits** **16**

### Junior

#### Fall

|                                      |                      |   |
|--------------------------------------|----------------------|---|
| ANTH 3000+                           |                      | 3 |
| SOC 3000+                            |                      | 3 |
| SOC 3510                             | RESEARCH METHODS     | 3 |
| SOC 3514                             | RESEARCH METHODS LAB | 1 |
| Elective                             |                      | 3 |
| General Education Course or Elective |                      | 3 |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **16**

#### Spring

|                    |  |   |
|--------------------|--|---|
| SOC 3000+          |  | 3 |
| SOC 3000+          |  | 3 |
| BS Cognate course# |  | 3 |
| Elective           |  | 3 |
| Elective           |  | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

### Senior

#### Fall

|                   |  |     |
|-------------------|--|-----|
| Elective          |  | 3-4 |
| BS Cognate course |  | 3   |
| BS Cognate course |  | 3   |
| Elective          |  | 3   |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **12-13**

#### Spring

|                     |               |   |
|---------------------|---------------|---|
| SOC 4900            | SENIOR THESIS | 4 |
| B.S. Cognate Course |               | 3 |
| Elective            |               | 3 |
| Elective            |               | 3 |
| Elective            |               | 2 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120-122**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Anthropology Sociology, Bachelor of Science with a Concentration in Anthropology Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### **MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **Sociology Major with a Concentration in Anthropology - 33 Hours Required**

Minimum grade of "C" required for Sociology major and concentration coursework.

### **Required Coursework 30**

ANTH 1050 INTRODUCTION TO ANTHROPOLOGY (\*\*)

ANTH 3910 INTRODUCTION TO PHYSICAL ANTHROPOLOGY (\*\*^)

ANTH 3920 ESSENTIALS OF ARCHAEOLOGY (^)

ANTH 4210 CULTURAL ANTHROPOLOGY (^)

SOC 1010 INTRODUCTORY SOCIOLOGY (\*\*^)

SOC 2120 SOCIOLOGICAL THEORY (^)

SOC 2130 SOCIAL STATISTICS (^)

SOC 2134 SOCIAL STATISTICS LAB (^)

SOC 3510 RESEARCH METHODS (^)

SOC 3514 RESEARCH METHODS LAB (^)

SOC 4900 SENIOR THESIS (^)

### **Select one from the following 3**

ANTH 3210 AFRICAN PEOPLES AND CULTURES (^)

ANTH 3220 PEOPLES AND CULTURES OF NATIVE NORTH AMERICA (^)

ANTH 3260 WORLD CULTURES AND PEOPLES (^)

ANTH 4220 NORTH AMERICAN ARCHAEOLOGY (^)

ANTH 4230 ETHNOMEDICINES OF THE AMERICAS (^)

ANTH 4240 MEDICAL ANTHROPOLOGY (^)

ANTH 4250 ENVIRONMENTAL ANTHROPOLOGY AND NATIVE PEOPLES OF THE GREAT PLAINS (^)

ANTH 4260 TOPICS IN CULTURAL ANTHROPOLOGY (^)

ANTH 4280 CLINICAL ETHNOGRAPHY (^)

ANTH 4290 DRUG USE, ADDICTION, & CULTURE (^)

ANTH 4920 SEMINAR IN ANTHROPOLOGY (^)

ANTH 4940 ARCHAEOLOGICAL FIELD METHODS (^)

ANTH 4990 INDEPENDENT STUDY IN ANTHROPOLOGY (^)

### **College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

### **Bachelor of Science Cognate Requirement 15**

Students in the BS degree program are required to complete 15 hours of cognate coursework, a field of specialization outside of sociology based on their interests and/or career aspirations. Cognates are designed by the student in consultation with the undergraduate adviser.

### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

## **Families and Inequality Sociology, Bachelor of Science with a Concentration in Families and Inequality Requirements**

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

### **GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

### **Fundamental Skills 15**

#### **Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

#### **Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

#### **Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

#### **Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### **MAJOR REQUIREMENTS**



\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **Sociology Major with a Concentration in Families and Inequality - 33 Hours Required**

#### **Required Coursework 27**

|           |                                   |
|-----------|-----------------------------------|
| SOC 1010  | INTRODUCTORY SOCIOLOGY (**^)      |
| ANTH 1050 | INTRODUCTION TO ANTHROPOLOGY (**) |
| SOC 2120  | SOCIOLOGICAL THEORY (^)           |
| SOC 2130  | SOCIAL STATISTICS (^)             |
| SOC 2134  | SOCIAL STATISTICS LAB (^)         |
| SOC 3510  | RESEARCH METHODS (^)              |
| SOC 3514  | RESEARCH METHODS LAB (^)          |
| SOC 4150  | AMERICAN FAMILY PROBLEMS (^)      |
| ANTH 4210 | CULTURAL ANTHROPOLOGY (^)         |
| SOC 4900  | SENIOR THESIS (^)                 |

#### **Select two 3-credit courses from the following\* 6**

|           |  |
|-----------|--|
| SOC 3840  | WORLD POPULATION AND SOCIAL ISSUES (** ^)  |
| SOC 4170  | SOCIOLOGY OF FATHERHOOD (^)  |
| SOC 4350  | WORK & FAMILY (^)  |
| SOC 4800  | CONTEMPORARY TOPICS IN SOCIOLOGY (^ When topic is relevant to the concentration and by approval of major advisor)) |
| ANTH 4920 | SEMINAR IN ANTHROPOLOGY (^ When topic is relevant to the concentration and by approval of major advisor))          |

\*One of the following courses may be substituted for one of the "select two" courses listed above:

|          |  |
|----------|--|
| SOC 3300 | SOCIOLOGY OF GENDER (** ^)                   |
| SOC 3690 | SOCIAL INEQUALITY (^)                        |
| SOC 3700 | INTRODUCTION TO LGBTQ STUDIES (** ^)         |
| SOC 3900 | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^) |

#### **College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### **Bachelor Science Cognate Requirement 15**

Students in the BS degree program are required to complete 15 hours of cognate coursework, a field of specialization outside of sociology based on their interests and/or career aspirations. Cognates are designed by the student in consultation with the undergraduate adviser.

#### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

## **Health and Society**

### **Sociology, Bachelor of Science with a Concentration in Health and Society Requirements**

#### **Code Title Credits** **GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

#### **Fundamental Skills 15**

##### **Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

##### **Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

##### **Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

##### **Data Literacy – 3 hrs.**

Select one from the following

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### **MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **Sociology Major with a Concentration in Health and Society - 33 Hours Required**

#### **Required Coursework 27**

|           |                                   |
|-----------|-----------------------------------|
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)     |
| ANTH 1050 | INTRODUCTION TO ANTHROPOLOGY (**) |
| SOC 2120  | SOCIOLOGICAL THEORY (^)           |
| SOC 2130  | SOCIAL STATISTICS (^)             |
| SOC 2134  | SOCIAL STATISTICS LAB (^)         |
| SOC 3510  | RESEARCH METHODS (^)              |
| SOC 3514  | RESEARCH METHODS LAB (^)          |
| SOC 3820  | MEDICAL SOCIOLOGY (** ^)          |
| ANTH 4240 | MEDICAL ANTHROPOLOGY (^)          |
| SOC 4900  | SENIOR THESIS (^)                 |

**Select two 3-credit courses from the following\***

|               |   |
|---------------|---|
| SOC 3840      | WORLD POPULATION AND SOCIAL ISSUES (** ^)   |
| SOC 4200      | SOCIOLOGY OF THE BODY (^)   |
| SOC 4440      | HUMAN CONNECTION, LONELINESS, & HEALTH (^)  |
| SOC/PHHB 4700 | WOMEN'S HEALTH AND ISSUES OF DIVERSITY  |
| SOC 4800      | CONTEMPORARY TOPICS IN SOCIOLOGY (^ When topic is relevant to the concentration and by approval of major advisor) |
| SOC 4830      | SOCIOLOGY OF MENTAL HEALTH & ILLNESS (^)  |
| ANTH 4230     | ETHNOMEDICINES OF THE AMERICAS (^)  |
| ANTH 4280     | CLINICAL ETHNOGRAPHY  |
| ANTH 4290     | DRUG USE, ADDICTION, & CULTURE  |
| ANTH 4920     | SEMINAR IN ANTHROPOLOGY (^ When topic is relevant to the concentration and by approval of major advisor)          |

**\*One of the following courses may be substituted for one of the "select two" courses listed above:**

|          |  |
|----------|--|
| SOC 3300 | SOCIOLOGY OF GENDER (** ^)                   |
| SOC 3690 | SOCIAL INEQUALITY (^)                        |
| SOC 3700 | INTRODUCTION TO LGBTQ STUDIES (** ^)         |
| SOC 3900 | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^) |

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor Science Cognate Requirement 15**

Students in the BS degree program are required to complete 15 hours of cognate coursework, a field of specialization outside of sociology based on their interests and/or career aspirations. Cognates are designed by the student in consultation with the undergraduate adviser.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

6

# Inequality and Social Justice

## Sociology, Bachelor of Science with a Concentration in Inequality and Social Justice Requirements

| Code   | Title | Credits |
|--|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS -34 Hours Required</b> |       |         |

Minimum of "C-"required

**Fundamental Skills 15****Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Sociology Major with a Concentration in Health and Society - 33 Hours Required****Required Coursework 24**

SOC 1010 INTRODUCTORY SOCIOLOGY (\*\* ^)

ANTH 1050 INTRODUCTION TO ANTHROPOLOGY (\*\*)

SOC 2120 SOCIOLOGICAL THEORY (^)

SOC 2130 SOCIAL STATISTICS (^)

SOC 2134 SOCIAL STATISTICS LAB (^)

SOC 3510 RESEARCH METHODS (^)

SOC 3514 RESEARCH METHODS LAB (^)

SOC 4740 SOCIAL JUSTICE AND SOCIAL CHANGE (^)

|   |   |               |
|---|---|---------------|
| SOC 4900  | SENIOR THESIS (^)   |               |
| <b>Select three 3-credit courses from the following*</b>  |   | <b>9</b>      |
| SOC 3300  | SOCIOLOGY OF GENDER (** ^)  |               |
| SOC 3690  | SOCIAL INEQUALITY (^)   |               |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES (** ^)  |               |
| SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S. (** ^)  |               |
| <b>*One of the following courses may be substituted for one of the "select three" courses listed above:</b>   |   |               |
| SOC 3840  | WORLD POPULATION AND SOCIAL ISSUES (** ^)   |               |
| SOC 4140  | URBAN SOCIOLOGY (^)   |               |
| SOC 4210  | DISABILITY AND SOCIETY (^)  |               |
| SOC 4240  | SOCIAL TRANSFORMATIONS IN LATIN AMERICA (^)   |               |
| SOC 4250  | RESEARCHING LATIN AMERICAN MIGRATIONS (** ^)  |               |
| SOC 4310  | SOCIOLOGY OF SEXUALITIES (** ^)   |               |
| SOC 4760  | ENVIRONMENTAL SOCIOLOGY (^)   |               |
| SOC 4770  | POLITICAL SOCIOLOGY (^)   |               |
| SOC 4780  | URBAN LATIN AMERICA (** ^)  |               |
| SOC 4800  | CONTEMPORARY TOPICS IN SOCIOLOGY (^ When topic is relevant to the concentration and by approval of major advisor) |               |
| ANTH 4920   | SEMINAR IN ANTHROPOLOGY (^ When topic is relevant to the concentration and by approval of major advisor)          |               |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours   |   |               |
| Option 2: Additional General Education Requirements - 18+ hours   |   |               |
| Additional quantitative literacy - 3 hours  |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours  |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours  |   |               |
| HIST 1000 and HIST 1010 - 6 hours   |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours  |   |               |
| Option 3: CAS interdisciplinary major OR any UNO 2nd major - 30+ hours  |   |               |
| <b>Bachelor Science Cognate Requirement</b>   |   | <b>15</b>     |
| Students in the BS degree program are required to complete 15 hours of cognate coursework, a field of specialization outside of sociology based on their interests and/or career aspirations. Cognates are designed by the student in consultation with the undergraduate adviser |   |               |
| <b>ELECTIVES</b>  |   |               |
| Elective hours as required to reach a total of 120 hours  |   |               |

## Work and Organizations

### Sociology, Bachelor of Science with a Concentration in Work and Organizations Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>Sociology Major with a Concentration in Work and Organizations - 33 Hours Required</b>   |   | <b>27</b> |
| <b>Required Coursework</b>  |   |           |
| SOC 1010  | INTRODUCTORY SOCIOLOGY (** ^)                           |           |
| ANTH 1050   | INTRODUCTION TO ANTHROPOLOGY (**)                       |           |
| SOC 2120  | SOCIOLOGICAL THEORY (^)                                 |           |
| SOC 2130  | SOCIAL STATISTICS (^)                                   |           |
| SOC 2134  | SOCIAL STATISTICS LAB (^)                               |           |
| SOC 3510  | RESEARCH METHODS (^)                                    |           |
| SOC 3514  | RESEARCH METHODS LAB                                    |           |
| SOC 3610  | APPLIED ORGANIZATIONAL SOCIOLOGY (^)                    |           |
| SOC 3800  | WORK AND SOCIETY (^)                                    |           |
| SOC 4900  | SENIOR THESIS (^)                                       |           |

Select two 3-credit courses from the following\* 6

|           |   |
|-----------|---|
| SOC 3840  | WORLD POPULATION AND SOCIAL ISSUES (** ^)   |
| SOC 4180  | OCCUPATIONS & CAREERS: FULFILLMENT AND CHALLENGES AT WORK (^)   |
| SOC 4350  | WORK & FAMILY (^)   |
| SOC 4550  | ORGANIZATIONAL DIVERSITY AND INCLUSION (^)  |
| SOC 4620  | APPLIED FORMAL ORGANIZATIONS (^)  |
| SOC 4800  | CONTEMPORARY TOPICS IN SOCIOLOGY (^ When topic is relevant to the concentration and by approval of major advisor) |
| ANTH 4210 | CULTURAL ANTHROPOLOGY (^)   |

\*One of the following courses may be substituted for one of the “select two” courses listed above:

|          |   |
|----------|---|
| SOC 3300 | SOCIOLOGY OF GENDER (** ^)                |
| SOC 3690 | SOCIAL INEQUALITY (^)                     |
| SOC 3700 | INTRODUCTION TO LGBTQ STUDIES (** ^)      |
| SOC 3900 | RACE AND ETHNIC RELATIONS IN THE U.S. (^) |

College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

- Additional quantitative literacy - 3 hours
- Additional Social Science Gen. Ed. from another Discipline - 3 hours
- Additional Humanities Gen. Ed. from another Discipline - 3 hours
- HIST 1000 and HIST 1010 - 6 hours
- Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

Bachelor Science Cognate Requirement 15

Students in the BS degree program are required to complete 15 hours of cognate coursework, a field of specialization outside of sociology based on their interests and/or career aspirations. Cognates are designed by the student in consultation with the undergraduate adviser.

ELECTIVES

Elective hours as required to reach a total of 120 hours

# Sociology Minor

## Sociology, Minor Requirements

A minor in sociology requires 15 hours. The sociology minor is available on campus, entirely online, or a combination of the two. Students are required to complete the following:

| Code   | Title                  | Credits |
|--|------------------------|---------|
| SOC 1010   | INTRODUCTORY SOCIOLOGY | 3       |
| Additionally, select 12 credit hours in sociology electives with a minimum of 9 credit hours at the 3000-4000 level. |                        | 12      |

No more than nine hours will be accepted as transfer credit. All course work satisfying the minor must be completed with a grade of “C” (2.0) or better.

# Anthropology Minor

## Anthropology, Minor Requirements

A minor in anthropology requires 15 hours. The minor may be completed on campus, entirely online, or a combination of the two. Students are required to complete the following:

| Code  | Title                        | Credits |
|---|------------------------------|---------|
| ANTH 1050   | INTRODUCTION TO ANTHROPOLOGY | 3       |
| Additionally, select 12 credit hours in anthropology electives with a minimum of 9 credit hours at the 3000-4000 level. |                              | 12      |

No more than nine hours will be accepted as transfer credit. All course work satisfying the minor must be completed with a grade of “C” (2.0) or better. Up to six ANTH credits may be double counted toward the minor in anthropology and the major in sociology.

# Women's and Gender Studies

## Mission

The UNO Women’s and Gender Studies Program offers individuals and communities paths to transformation and empowerment through the collaborative work of students and faculty, who together study and explore all women’s lives and all constructions of gender across time, place, and culture, using a feminist and/or queer lens. Our interdisciplinary faculty teach a curriculum that emphasizes the intersections of gender, race/ethnicity, nationality, socioeconomic class, ability levels, sexuality, and additional dimensions of difference.

We envision a world in which differences offer paths to meaningful and fulfilling contributions. Our program employs the tools of different disciplines, including communication, arts and humanities, social sciences, natural sciences, and history. Graduating students are prepared for many opportunities beyond graduation.

## Description

Women’s and Gender Studies is a liberal arts degree that prepares students for a wide variety of career and avocational paths. Majors or minors find employment in a variety of areas, choosing to work in advocacy or social services-related positions, community development, large and small business, and government.

## Other Information

All coursework taken for the Women’s and Gender Studies major or minor must be completed with a grade of “C-” or better.

All coursework taken for the LGBTQ-Sexuality Studies minor must be completed with a grade of “C” or better.

Please be advised that students who elect to complete both the WGST minor and LGBTQ-Sexuality Studies minor may count no more than two upper-division courses toward the completion of both minors.

## Special Requirements

Courses presented for credit toward the minor or major must have been taught by a member of the Women's and Gender Studies faculty. Students should select WGST electives in consultation with their major adviser.

## Residency

Students may transfer in no more than 9 credits earned at other institutions to the WGS minor and no more than 15 credits earned at other institutions to the WGS major.

## Student Groups

Iota Iota Iota (Triota) is a club and honorary society that recognizes excellence in Women's and Gender Studies. Membership is available to any student who has completed two introductory courses in Women's and Gender Studies and has a cumulative GPA of at least 3.0. In addition, students majoring or minoring in Women's and Gender Studies can be involved with campus organizations such as the Women's and Gender Equity Resource Center, and the Queer and Trans Services.

## Contact

Women's and Gender Studies Program Director 402.554.4841  
339 Arts and Sciences Hall (ASH)

**Website** (<http://www.unomaha.edu/college-of-arts-and-sciences/womens-and-gender-studies/>)

## Degree Offered

- Women's and Gender Studies, Bachelor of Arts (p. 363)

## Minor Offered

- Women's and Gender Studies Minor (p. 366)
- LGBTQ/Sexuality Studies Minor (p. 366)

Women, gender, and sexuality studies majors may find employment in a variety of areas depending on their skills and experience. Some of our majors pursue post-baccalaureate training in medicine, law, education, and other graduate programs. Others choose employment directly after graduation, following career paths in advocacy or social services-related positions, community development, business, and government. Some career-path examples include:

### Business

- Human Resources Manager
- Financial Planner
- Business Manager
- Office Manager
- Convention/Event Planner

### Education

- K-12 School Teacher (with additional certification)
- Childcare Center Lead Teacher

### Health

- Community Health Outreach Worker
- Community Health Advocate
- Public Health Coordinator
- Health Services Project Administrator

### Law

- Victim Assistance Case Manager
- Mediator

## Media/Publications

- Magazine Freelance Writer/Researcher
- Independent Film Maker/Producer
- Editor
- Social Media Specialist
- Film Publicist
- Production Artist

## Social and Public Service

- Counseling Services Director
- Training Coordinator
- Rape Crisis Center/Community Education Coordinator
- Women's Crisis Support Center Community Educator
- Girl Scouts of America Program Officer
- Food Bank Program Manager
- Community Service Agency Case Manager
- Community Service Resource Navigator
- Grant Writer

## Women's and Gender Studies, Bachelor of Arts

### Women's and Gender Studies, Bachelor of Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |



|   |   |
|---|---|
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS</b>   |   |
| **Course will satisfy UNO's General Education requirement                           |   |
| ^Course requires pre-requisite(s)   |   |
| <b>Women's and Gender Studies Major - 33-35 Hours Required</b>                      |   |
| <b>Required Coursework</b>  | <b>6</b>  |
| WGST 2010   | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: SOCIAL AND BEHAVIORAL SCIENCE (** ^)                      |
| WGST 2020   | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: HUMANITIES (** ^)   |
| <b>Select one of the following Quantitative Literacy course</b>                     |   |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)  |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)   |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)  |
| CRCJ/SOWK/PA 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^)   |
| MATH 1320   | COLLEGE ALGEBRA (^)   |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT  |
| MATH 1330   | TRIGONOMETRY (^)  |
| MATH 1340   | ALGEBRA AND TRIGONOMETRY FOR CALCULUS (^)   |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)  |
| MATH 1940   | CALCULUS FOR BIOMEDICINE (^)  |
| PHIL 2010   | SYMBOLIC LOGIC  |
| PSYC 3130   | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)  |
| SOC 2130  | SOCIAL STATISTICS (^)   |
| STAT 1530   | ELEMENTARY STATISTICS (** ^)  |
| STAT 3000   | STATISTICAL METHODS I (^)   |
| <b>Select eight from the following courses (six must be at the 3000-4000 Level)</b> |   |
| ART 4930  | SPECIAL TOPICS IN ART HISTORY (^)   |
| ENGL 2000   | TOPICS IN LANGUAGE AND LITERATURE (^ When topic is Women's and Gender Studies)                        |
| ENGL 2230   | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)   |
| ENGL 4250   | WOMEN'S STUDIES IN LITERATURE (^)   |
| ENGL 4260   | GLOBAL WOMEN WRITERS (^)  |
| ENGL 4280   | QUEER AMERICAN WESTS (^)  |
| GDRH 2120   | CORE TOPICS IN SOCIAL SCIENCES: SOCIAL ISSUES (** ^ When topic is Women's and Gender Studies)         |
| GDRH 3010   | SPECIAL TOPICS SEMINAR (When topic is Women's and Gender Studies)                                     |
| HIST 4910   | TOPICS IN HISTORY (When topic is Women's and Gender Studies - Requires Jr. status)                    |
| HONR 3000   | HONORS SEMINAR (^ When topic is Women's and Gender Studies - Requires admittance into Honors Program) |
| PHHB/SOC 4700   | WOMEN'S HEALTH AND ISSUES OF DIVERSITY  |
| PSCI/WGST 3100  | LGBTQ+ POLITICS (** ^)  |

|   |  |
|---|--|
| PSCI 3930   | SPECIAL TOPICS IN POLITICAL SCIENCE (When topic is Women's and Gender Studies)                                   |
| PSYC 4930   | SPECIAL TOPICS IN PSYCHOLOGY (When topic is Women's and Gender Studies)  |
| RELI 3500   | TOPICS IN RELIGIOUS STUDIES (When topic is Women's and Gender Studies)   |
| SOC 2150  | SOCIOLOGY OF FAMILIES (** ^)   |
| SOC 2800  | MAJOR SOCIAL ISSUES (When topic is Women's and Gender Studies)   |
| SOC 3300  | SOCIOLOGY OF GENDER (** ^)   |
| SOC 4150  | AMERICAN FAMILY PROBLEMS (^)   |
| SOC 4170  | SOCIOLOGY OF FATHERHOOD (^)  |
| SOC 4800  | CONTEMPORARY TOPICS IN SOCIOLOGY (^ When topic is Women's and Gender Studies - Requires SOC 1010 and Jr. status) |
| SOWK 4880   | TOPICAL SEMINAR IN SOCIAL WORK (When topic is Women's and Gender Studies - Requires Admission to BSSW)           |
| WGST/BLST 1950  | BLACK WOMEN IN AMERICA (**)  |
| WGST/PHHB 3080  | HUMAN SEXUALITY  |
| WGST 3120/<br>RELI 3130   | WOMEN AND THE BIBLE  |
| WGST/PSCI 3130  | WOMEN AND POLITICS (** ^)  |
| WGST/CRCJ 3390  | WOMEN, CRIME AND JUSTICE (** ^)  |
| WGST/PHIL 3490  | GENDER AND PHILOSOPHY (** ^)   |
| WGST/CMST 3750  | GENDER AND COMMUNICATION (** ^)  |
| WGST/HIST 4060  | HISTORY OF WOMEN IN AMERICA FROM 1875 - 1922 (^)   |
| WGST/BLST 4120  | BLACK WOMEN LEADERS IN LIBERATION MOVEMENTS (^)  |
| WGST/GEOG 4150  | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)   |
| WGST/GERO/<br>PHHB 4550   | HEALTH ASPECTS OF AGING  |
| WRWS 4000   | FORM AND THEORY (^)  |
| WRWS 3000   | SELECTED TOPICS IN WRITING (When topic is Women's and Gender Studies)  |
| <b>College Breadth (choose one option)</b>  |  |
| <b>15-30+</b>   |  |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours         |  |
| Option 2: Additional General Education Requirements - 18+ hours                   |  |
| Additional quantitative literacy - 3 hours  |  |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |  |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |  |
| HIST 1000 and HIST 1010 - 6 hours   |  |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |  |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |  |
| <b>Bachelor Arts Language Requirement</b>   |  |
| <b>16</b>   |  |
| FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120                                       |  |
| <b>ELECTIVES</b>  |  |
| Elective hours as required to reach a total of 120 hours                          |  |

For the B.A. degree, foreign language is required through the intermediate level.

## Women's and Gender Studies, Bachelor of Arts Four Year Plan

### Freshman

| Fall  |   | Credits      |
|---|---|--------------|
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE  | 3            |
| ENGL 1150   | ENGLISH COMPOSITION I   | 3            |
| Foreign Language Course 1110***   |   | 5            |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR<br>HEALTHCARE PROFESSIONALS<br>or COLLEGE ALGEBRA WITH<br>SUPPORT | 3-4          |
| World Language Course 1110  |   | 5            |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |              |
| <b>Credits</b>  |   | <b>19-20</b> |

### Spring

|  |   |           |
|--|---|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND<br>INFORMATION LITERACY                                    | 3         |
| WGST 2010  | INTRODUCTION TO WOMEN'S AND<br>GENDER STUDIES: SOCIAL AND<br>BEHAVIORAL SCIENCE | 3         |
| World Language Course 1120   |   | 5         |
| General Education Course or Elective   |   | 4         |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |           |
| <b>Credits</b>   |   | <b>15</b> |

### Sophomore

| Fall   |   | Credits   |
|--|---|-----------|
| General Education Course or Elective   |   | 3         |
| WGST 2020  | INTRODUCTION TO WOMEN'S AND<br>GENDER STUDIES: HUMANITIES | 3         |
| WGST Elective  |   | 3         |
| World Language 2110  |   | 3         |
| Approved Quantitative Literacy Course for Major  |   | 3         |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |   |           |
| <b>Credits</b>   |   | <b>15</b> |

### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
| WGST Elective                        |  | 3 |
| World Language Course 2120           |  | 3 |
| General Education Course or Elective |  | 3 |

General Education Course or Elective 3

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

### Credits

15

### Junior

| Fall   |  | Credits   |
|--|--|-----------|
| WGST Elective  |  | 3         |
| General Education Course or Elective   |  | 3         |
| General Education Course or Elective   |  | 3         |
| Elective   |  | 3         |
| Elective   |  | 3         |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Spring

|  |  |           |
|--|--|-----------|
| WGST Elective  |  | 3         |
| Elective   |  | 3         |
| Elective   |  | 3         |
| Elective   |  | 3         |
| Elective   |  | 3         |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Senior

| Fall   |  | Credits   |
|--|--|-----------|
| WGST Elective  |  | 3         |
| WGST Elective  |  | 3         |
| Elective   |  | 3         |
| Elective   |  | 3         |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |  |           |
| <b>Credits</b>   |  | <b>12</b> |

### Spring

|  |  |           |
|--|--|-----------|
| Elective   |  | 3         |
| WGST Elective  |  | 3         |
| Elective   |  | 3         |
| Elective   |  | 3         |
| Elective   |  | 2         |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |  |           |
| <b>Credits</b>   |  | <b>14</b> |

### Total Credits

120-121

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements: 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Women's and Gender Studies Minor

### Women's and Gender Studies Minor Requirements

The WGST minor requires 18 credits, as detailed below. Please be advised that students who elect to complete both the WGST minor and LGBTQ-Sexuality Studies minor may count no more than two upper-division courses toward the completion of both minors.

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>All of the following:</b>   |   | <b>6</b>  |
| WGST 2010  | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: SOCIAL AND BEHAVIORAL SCIENCE |           |
| WGST 2020  | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: HUMANITIES                    |           |
| <b>Select 12 credits of approved upper-division (3000-4000 level) WGST courses (see below)</b> |   | <b>12</b> |

#### Approved WGST courses

| Code          | Title                                    | Credits |
|---------------|--|---------|
| ART 4930      | SPECIAL TOPICS IN ART HISTORY            |         |
| ENGL 4270     | WOMEN WRITERS OF THE NORTH AMERICAN WEST |         |
| ENGL 4960     | TOPICS IN LANGUAGE AND LITERATURE        |         |
| GDRH 3010     | SPECIAL TOPICS SEMINAR                   |         |
| HIST 4910     | TOPICS IN HISTORY                        |         |
| HONR 3000     | HONORS SEMINAR                           |         |
| PHHB/SOC 4700 | WOMEN'S HEALTH AND ISSUES OF DIVERSITY   |         |

|                         |  |
|-------------------------|--|
| PSCI 3100               | LGBTQ+ POLITICS                              |
| PSCI 3930               | SPECIAL TOPICS IN POLITICAL SCIENCE          |
| PSYC 4930               | SPECIAL TOPICS IN PSYCHOLOGY                 |
| RELI 3500               | TOPICS IN RELIGIOUS STUDIES                  |
| SOC 3300                | SOCIOLOGY OF GENDER                          |
| SOC 4150                | AMERICAN FAMILY PROBLEMS                     |
| SOC 4800                | CONTEMPORARY TOPICS IN SOCIOLOGY             |
| SOWK 4880               | TOPICAL SEMINAR IN SOCIAL WORK               |
| WGST/PHHB 3080          | HUMAN SEXUALITY                              |
| WGST 3120/<br>RELI 3130 | WOMEN AND THE BIBLE                          |
| WGST/PSCI 3130          | WOMEN AND POLITICS                           |
| WGST/CRCJ 3390          | WOMEN, CRIME AND JUSTICE                     |
| WGST/PHIL 3490          | GENDER AND PHILOSOPHY                        |
| WGST/CMST 3750          | GENDER AND COMMUNICATION                     |
| WGST/HIST 4060          | HISTORY OF WOMEN IN AMERICA FROM 1875 - 1922 |
| WGST/GEOG 4150          | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP       |
| WGST/ENGL 4250          | WOMEN'S STUDIES IN LITERATURE                |
| WGST/GERO/<br>PHHB 4550 | HEALTH ASPECTS OF AGING                      |
| WRWS 3000               | SELECTED TOPICS IN WRITING                   |
| WRWS 4000               | FORM AND THEORY                              |

## LGBTQ/Sexuality Studies Minor

LGBTQ (lesbian, gay, bisexual, transgender, and queer)/Sexuality Studies is an interdisciplinary field that examines the identities, experiences, and social positions of people often referred to as sexual/gender minorities. The field also examines sexual behaviors, identities, and communities as sex plays a key role in many people's lives. LGBTQ/Sexuality Studies has origins in many disciplines, including anthropology, art, English, history, media studies, psychology, public health, sociology, theatre, and women's and gender studies, among others. The field includes topics such as: identity formation of non-heterosexual sexualities, non-binary gender identities, health and well being of sexual/gender minorities, cultural groups, the politics of identity, and representations of queer lives in popular culture. This minor acknowledges that sexuality is an important distinguishing factor of our lives on par with race, social class, and gender.

The LGBTQ/Sexuality Studies minor will offer students courses that complement and support their majors in many ways. The minor is intentionally flexible and interdisciplinary. Students who complete this minor will gain increased knowledge in the following:

- sexual identity, orientation, and behaviors, including heterosexualities, homosexualities, gay sexualities, lesbian sexualities, bisexualities, queer sexualities, etc.
- gender identities including trans identities, including but not limited to: genderqueer, non-binary, trans man, trans woman, gender non-conforming, gender creative, etc.
- sexology, or the study of sex and sexual behaviors, and human sexuality broadly
- sexual health such as STIs, HIV, and sexual reproduction
- theories of identity development, queer theory, and other social theories related to sexuality
- intersectionality of sexuality with race, class, gender, religion, ability, nationality, and other social characteristics

- diversity of human behavior and experience as it relates to sex and sexuality
- history and diversity of representations of LGBTQ in culture.

## Minors Offered

LGBTQ/Sexuality Studies Minor

## Other Information

All coursework taken for the LGBTQ/Sexuality Studies minor must be completed with a grade of "C" or better.

## Contact

The LGBTQ/Sexuality Studies minor is a minor option under Women's and Gender Studies.

Arts and Sciences Advising Center  
220 Arts and Sciences Hall  
402.554.2458

## LGBTQ/Sexuality Studies Minor Requirements

Undergraduate students will be expected to complete at least 15 credit hours of LGBTQ/Sexuality courses with a grade of C or higher. Nine credit hours must be upper division (3000 or higher) courses. No more than nine credit hours will be accepted as transfer credit.

Courses not on the list can be petitioned to be accepted by approval of the Advisor of the minor.

| Code  | Title   | Credits  |
|---|---|----------|
| <b>Required Courses</b>                       |   | <b>9</b> |
| SOC 3700                                      | INTRODUCTION TO LGBTQ STUDIES   |          |
| WGST 2010                                     | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: SOCIAL AND BEHAVIORAL SCIENCE |          |
| or WGST 2020                                  | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: HUMANITIES                    |          |
| WGST/PHHB 3080                                | HUMAN SEXUALITY   |          |
| <b>Supplemental Courses</b>                   |   |          |
| <b>Select two courses from the following:</b> |   | <b>6</b> |
| Art History:                                  |   |          |
| ART 4930                                      | SPECIAL TOPICS IN ART HISTORY <sup>1</sup>                                |          |
| English:                                      |   |          |
| ENGL 2000                                     | TOPICS IN LANGUAGE AND LITERATURE <sup>2</sup>                            |          |
| ENGL/WGST 3000                                | SPECIAL TOPICS IN ENGLISH <sup>2</sup>                                    |          |
| ENGL 4280                                     | QUEER AMERICAN WESTS  |          |
| ENGL 4960                                     | TOPICS IN LANGUAGE AND LITERATURE <sup>3</sup>                            |          |
| Health Education:                             |   |          |
| PHHB/SOC 4700                                 | WOMEN'S HEALTH AND ISSUES OF DIVERSITY                                    |          |
| Honors Program:                               |   |          |
| HONR 3030                                     | HONORS SEMINAR - SOCIAL SCIENCES <sup>4</sup>                             |          |
| Political Science:                            |   |          |
| PSCI/WGST 3100                                | LGBTQ+ POLITICS   |          |
| PSCI/WGST 3130                                | WOMEN AND POLITICS  |          |
| Psychology:                                   |   |          |
| PSYC 3540                                     | ADOLESCENT PSYCHOLOGY <sup>5</sup>  |          |
| PSYC/BIOL 4320                                | HORMONES & BEHAVIOR   |          |

### Sociology:

|          |  |
|----------|--|
| SOC 3300 | SOCIOLOGY OF GENDER  |
| SOC 4310 | SOCIOLOGY OF SEXUALITIES   |
| SOC 4800 | CONTEMPORARY TOPICS IN SOCIOLOGY (Topics in Transgender Studies) |

<sup>1</sup> ART 4930 when offered as: *Gender and Sexuality in Antiquity: Fashion in Modern Art & Culture*

<sup>2</sup> ENGL 2000 and ENGL 3000 when topic is sexuality

<sup>3</sup> ENGL 4960 when offered as: *Language, Gender, and Sexuality, Writing Women's Lives; Writing Graphic Memoirs*

<sup>4</sup> HONR 3030 when offered as: *LGBTQ Health*

<sup>5</sup> Select sections of PSYC 3540, per approval of the minor advisor.

Please be advised that students who elect to complete both the WGS minor and LGBTQ-Sexuality Studies minor may count no more than two upper-division courses toward the completion of both minors.

## World Languages and Literature

The Department of World Languages and Literature (WLL) offers a Bachelor of Arts (B.A.) in World Languages and Literature with concentrations in French, German, Spanish, and Spanish for Health Sciences. A total of 30 upper-division (3000-4000 level) credit hours are required for a concentration in French, German, or Spanish. A total of 31 credit hours (Spanish 1140 and additional upper-division courses) are required for the concentration in Spanish for Health Sciences. These concentrations foster linguistic, cultural, pragmatic, and sociohistorical knowledge/abilities in the target language. The department also offers minors in French, German, Japanese, Spanish, and Spanish for Health Sciences, in addition to introductory courses in Italian and Egyptian hieroglyphs.

It should be noted that the Spanish and German minors may be earned on campus, entirely online, or via a combination of the two.

In addition, the department participates in such interdisciplinary programs as International Studies, Latino and Latin American Studies, Women's and Gender Studies, Medical Humanities, Business, and Sustainability and offers study abroad programs in France, Germany, Canada, Mexico and Spain.

## Double Majors for Secondary Education World Language Majors

Students pursuing a B.S. from the College of Education, Health and Human Sciences with a primary major in Secondary Education (World Language-French or German or Spanish 7-12 Endorsement) and working toward Nebraska State Certification to teach in this area may also earn a second major in World Languages and Literature by declaring that major with the College of Arts & Sciences Advising Center (<https://www.unomaha.edu/college-of-arts-and-sciences/academic-advising-center/>) or at the main office for the World Languages and Literature department.

Students will complete 30 credit hours in French, German, or Spanish with grades of C or above (this is different from the World Languages and Literature Department's requirement of a minimum grade of C- or above). Students declaring this second major should work with their advisor to select courses that align with both programs and require no additional coursework on the part of the student.

Other Information

Courses in the 1110 (or 1100), 1120 (or 1200), 2110 (or 2100), 2120 sequences may not be taken out of order. Students must pass the prerequisite course with a grade of “C-” or better before taking the next course in the sequence and may not take an earlier course in any sequence for credit once they have received credit in a later course in any sequence. Spanish 1140 has no prerequisites and students can take it at any point.

All 3000 and 4000 level courses may be taken for honors credit in cooperation with the University Honors Program.

There is a laboratory fee for all world language courses at the 1000 and 2000 levels. Fees are used to support student learning through services that provide opportunities for language practice and communication.

Special Requirements

The Department of World Languages and Literature does not accept transfer credits from any institution for its 1000/2000 level courses except for those as allowed by the College of Arts and Sciences. To enroll in any French, German, or Spanish course beyond 1110, a student who has not successfully completed the prerequisite courses at UNO must take the appropriate placement exam (<https://www.unomaha.edu/college-of-arts-and-sciences/academic-advising-center/placement-information/flng.php>) and qualify for the desired course. Native and heritage speakers of French, German or Spanish wishing to take a course in their language of nurture are exempt from this requirement. They are advised to make an appointment with an advisor (<https://www.unomaha.edu/college-of-arts-and-sciences/world-languages-and-literature/academics/advising.php>) in the Department of World Languages and Literature for appropriate placement. All other students are subject to this requirement including transfer students. UNK/UNL students are not exempt from this requirement. The Department of World Languages and Literature reserves the right to cancel the registration of any student who has not met the prerequisites for a course. Transfer courses at the 3000/4000 level are subject to the approval of a departmental adviser and the department chair. All our language courses must be completed with a grade of C- or better in order for the student to continue to the next course.

Residency

All majors in World Languages and Literature must complete a minimum of 12 credit hours in their major language at the 3000 or 4000 level in residence at UNO.

All minors in World Languages and Literature must complete a minimum of 9 credit hours in their minor language at the 3000 or 4000 level in residence at UNO.

Student Groups

The department of World Languages has active student groups such as: Le Cercle Français, Stammtisch, and Sigma Delta Pi. Visit the department website (<https://www.unomaha.edu/college-of-arts-and-sciences/world-languages-and-literature/>) for more information.

Contact

301 Arts & Sciences Hall  
402.554.4841

Website (<https://www.unomaha.edu/college-of-arts-and-sciences/world-languages-and-literature/>)

Degrees Offered

World Languages and Literature, Bachelor of Arts (p. 368)

Minors Offered

- French Minor (p. 378)
- German Minor (p. 378) - Available online or on campus
- Japanese Minor (p. 378)
- Spanish Minor (p. 379) - Available online or on campus
- Spanish for Health Sciences Minor (p. 379) - Available online or on campus

In the Department of Foreign Languages and Literature at UNO, our goal is to provide students with the linguistic and cultural proficiency required of a global education. Language study at UNO provides a myriad of opportunities to use the language you are studying both within and outside of the classroom through study abroad opportunities and engagement in the Omaha community. Foreign Languages & Literature majors often pursue career paths such as the following:

- business: human resources, sales, marketing, logistics, international business
- law/law enforcement: police, immigration, law (international, immigration or environmental law)
- government and non-profit services: non-profit management or administration, Peace Corps, Foreign Service, linguistics, social work, environmental justice, research (for think tanks, non-profits, government)
- healthcare: healthcare navigation, patient relations, nursing, medicine, dentistry, speech therapy
- education (p-16): teaching, bilingual assistance, administration (OPS requires that principals be or become bilingual), counseling, special education, library services
- communication/journalism: radio, television, publishing (e.g. newspapers, magazines, blogs, books), and advertising. Specialized areas include writing, editing, proofreading, transcribing, subtitling, voice-over recording
- travel and hospitality: travel agency services, tour guiding, event coordination, concierge services.

World Languages and Literature, Bachelor of Arts  
World Languages and Literature, Bachelor of Arts Requirements

| Code   | Title   | Credits |
|--|---|---------|
| GENERAL EDUCATION REQUIREMENTS - 34 Hours Required |   |         |
| Minimum of "C-" required                           |   |         |
| Fundamental Skills                                 |   | 15      |
| Writing – 6 hrs.                                   |   |         |
| ENGL 1150  | ENGLISH COMPOSITION I                                   |         |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY               |         |
| Oral Communication – 3 hrs.                        |   |         |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                   |         |
| or CMST 2120                                       | ARGUMENTATION AND DEBATE                                |         |
| Quantitative Literacy – 3 hrs.                     |   |         |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |         |
| or MATH 1130                                       | QUANTITATIVE LITERACY                                   |         |
| or MATH 1140                                       | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |         |



or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS

#### Select a Concentration: 30-31

French Concentration

German Concentration

Spanish Concentration

Spanish for Health Sciences Concentration

It is strongly recommended that all world language majors include a study abroad component of at least one month during the second half of their program of study. All courses credited to a major or minor in a world language must be passed with a grade of “C-” or better.

#### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 19+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from 3rd Discipline - 3 hours

Additional Humanities Gen. Ed. from 3rd Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

#### Bachelor of Arts Language Requirement - 16 Hours Required 16

FREN, GERM, Or SPAN, 1110\*\*, 1120, 2110 and 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Foreign Languages and Literature, Bachelor of Arts Concentrations

- French Concentration (p. 369)
- German Concentration (p. 371)
- Spanish Concentration (p. 373) - Available online or on campus
- Spanish for Health Sciences Concentration (p. 376) - Available online or on campus

## French Concentration World Languages and Literature, Bachelor of Arts with a Concentration in French Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

### GENERAL EDUCATION REQUIREMENTS - 34 hours required

Minimum of “C-” required

### Fundamental Skills 15

#### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

#### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

#### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### Concentration in French - 30 Hours Required

#### Required Coursework: 12

FREN 3030 FRENCH CONVERSATION (^)

FREN 3040 FRENCH GRAMMAR AND COMPOSITION (^)

FREN 3060 READINGS IN FRENCH (^)

FREN 4040 ADVANCED FRENCH COMPOSITION AND STYLISTICS (^)

#### Select one course from Literature and Film 3

FREN 3160 INTRODUCTION TO FRENCH LITERATURE (^)

FREN 4150 CONTEMPORARY FRENCH NOVEL (^)

FREN 4170 CONTEMPORARY FRENCH THEATER (^)

|   |   |               |
|---|---|---------------|
| FREN 4860   | MODERN FRENCH WOMEN AUTHORS (^)                               |               |
| FREN 4950   | PRO-SEMINAR: LITERATURE AND/OR FILM (^)                       |               |
| <b>Select one course from Culture and Society</b>                                 |   | <b>3</b>      |
| FREN 3370   | FRENCH CIVILIZATION (^)                                       |               |
| FREN 4030   | ADVANCED FRENCH CONVERSATION (^)                              |               |
| FREN 4050   | SEMINAR IN THE CULTURE AND CIVILIZATION OF QUEBEC (^)         |               |
| FREN 4070   | FRANCOPHONE WEST AFRICA CULTURES (^)                          |               |
| FREN 4960   | PRO-SEMINAR: CULTURE AND SOCIETY (^)                          |               |
| <b>Select one course from Linguistics and Language for the Professions</b>        |   | <b>3</b>      |
| FREN 3020   | SPECIAL TOPICS IN FRENCH (^)                                  |               |
| FREN 3050   | INTRODUCTION TO TRANSLATION (^)                               |               |
| FREN 3580   | BUSINESS FRENCH (^)   |               |
| FREN 4220   | THE STRUCTURE OF FRENCH (^)                                   |               |
| FREN 4970   | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (^) |               |
| <b>Select three courses in any combination from the above three categories</b>    |   | <b>9</b>      |
| <b>College Breadth (choose one option)</b>  |   | <b>15-30+</b> |
| Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours         |   |               |
| Option 2: Additional General Education Requirements - 18+ hours                   |   |               |
| Additional quantitative literacy - 3 hours  |   |               |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours              |   |               |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours                  |   |               |
| HIST 1000 and HIST 1010 - 6 hours   |   |               |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours                |   |               |
| Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours) |   |               |
| <b>Bachelor of Arts Language Requirement</b>                                      |   | <b>16</b>     |
| FREN, GERM, Or SPAN, 1110**, 1120, 2110, 2120                                     |   |               |
| <b>ELECTIVES</b>  |   |               |
| Elective hours as required to reach a total of 120 hours                          |   |               |

## World Languages and Literature, Bachelor of Arts with a Concentration in French Four Year Plan

|                                      |                             |                |
|--------------------------------------|-----------------------------|----------------|
| <b>Freshman</b>                      |                             |                |
| <b>Fall</b>                          |                             | <b>Credits</b> |
| FREN 1110                            | ELEMENTARY FRENCH I         | 5              |
| ENGL 1150                            | ENGLISH COMPOSITION I       | 3              |
| CMST 1110                            | PUBLIC SPEAKING FUNDS       | 3              |
| or CMST 2120                         | or ARGUMENTATION AND DEBATE |                |
| General Education Course or Elective |                             | 3              |

Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

|                                      |  |           |
|--------------------------------------|--|-----------|
| <b>Credits</b>                       |  | <b>14</b> |
| <b>Spring</b>                        |  |           |
| FREN 1120                            | ELEMENTARY FRENCH II                                   | 5         |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY              | 3         |
| General Education Course or Elective |  | 3         |
| MATH 1120                            | INTRODUCTION TO MATHEMATICAL                           | 3-4       |
| or MATH 1130                         | AND COMPUTATIONAL THINKING                             |           |
| or MATH 1140                         | or QUANTITATIVE LITERACY                               |           |
| or MATH 1300                         | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |           |
|                                      | or COLLEGE ALGEBRA WITH SUPPORT                        |           |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

|  |                       |              |
|--|-----------------------|--------------|
| <b>Credits</b>   |                       | <b>14-15</b> |
| <b>Sophomore</b>   |                       |              |
| <b>Fall</b>  |                       |              |
| FREN 2110  | INTERMEDIATE FRENCH I | 3            |
| General Education Course or Elective   |                       | 4            |
| General Education Course or Elective   |                       | 3            |
| General Education Course or Elective   |                       | 3            |
| General Education Course or Elective   |                       | 3            |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                       |              |

|  |                            |           |
|--|----------------------------|-----------|
| <b>Credits</b>   |                            | <b>16</b> |
| <b>Spring</b>  |                            |           |
| FREN 2120  | INTERMEDIATE FRENCH II (*) | 3         |
| General Education Course or Elective   |                            | 3         |
| General Education Course or Elective   |                            | 3         |
| General Education Course or Elective   |                            | 3         |
| Elective   |                            | 3         |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                            |           |

|                |                                |           |
|----------------|--------------------------------|-----------|
| <b>Credits</b> |                                | <b>15</b> |
| <b>Junior</b>  |                                |           |
| <b>Fall</b>    |                                |           |
| FREN 3030      | FRENCH CONVERSATION            | 3         |
| FREN 3040      | FRENCH GRAMMAR AND COMPOSITION | 3         |
| Elective       |                                | 4         |
| Elective       |                                | 3         |
| Elective       |                                | 3         |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **16**

**Spring**

|                                |                        |   |
|--------------------------------|------------------------|---|
| FREN 3060                      | READINGS IN FRENCH (*) | 3 |
| Upper division French elective |                        | 3 |
| Elective                       |                        | 3 |
| Elective                       |                        | 3 |
| Elective                       |                        | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

**Senior**

|                                  |  |   |
|----------------------------------|--|---|
| FREN 4040                        | ADVANCED FRENCH COMPOSITION AND STYLISTICS | 3 |
| Upper division French elective   |  | 3 |
| One FREN Culture & Society class |  | 3 |
| Elective                         |  | 3 |
| Elective                         |  | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Spring**

|   |  |   |
|---|--|---|
| One FREN Literature & Film Class        |  | 3 |
| One FREN Linguistics and Language class |  | 3 |
| Upper division French elective          |  | 3 |
| Elective                                |  | 3 |
| Elective                                |  | 3 |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

**Credits** **15**

**Total Credits** **120-121**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for

the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## German Concentration World Languages and Literature, Bachelor of Arts with a Concentration in German Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**GENERAL EDUCATION REQUIREMENTS - 34 hours required**

Minimum of "C-" required

**Fundamental Skills** **15**

**Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility** **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Concentration in German - 30 Hours Required****Required Coursework** **12**

|           |   |
|-----------|---|
| GERM 3030 | GERMAN CONVERSATION (^)                 |
| GERM 3040 | GERMAN GRAMMAR & COMPOSITION (^)        |
| GERM 3060 | READINGS IN GERMAN (^)                  |
| GERM 4040 | ADVANCED COMPOSITION AND STYLISTICS (^) |

**Select one of the following courses from Literature and Film** **3**

|           |   |
|-----------|---|
| GERM 3650 | INTRODUCTION TO GERMAN FILM (^)         |
| GERM 4150 | INTRODUCTION TO GERMAN LITERATURE (^)   |
| GERM 4160 | BLACK GERMANY: PEOPLE AND CULTURE       |
| GERM 4950 | PRO-SEMINAR: LITERATURE AND/OR FILM (^) |

**Select one of the following courses from Culture and Society** **3**

|           |  |
|-----------|--|
| GERM 3250 | CONTEMPORARY CULTURE IN GERMAN SPEAKING COUNTRIES (^)                |
| GERM 3370 | GERMAN HISTORY FROM THE BEGINNINGS UNTIL THE EARLY MODERN PERIOD (^) |
| GERM 3380 | GERMAN HISTORY FROM THE ENLIGHTENMENT TO THE PRESENT (^)             |
| GERM 4960 | PRO-SEMINAR: SOCIETY AND CULTURE (^)                                 |

**Select one of the following courses from Linguistics and Language for the Professions** **3**

|           |   |
|-----------|---|
| GERM 3190 | LISTENING COMPREHENSION                                       |
| GERM 3580 | GERMAN FOR PROFESSIONAL LIFE (^)                              |
| GERM 4210 | TRANSLATING GERMAN (^)  |
| GERM 4970 | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (^) |

**Select three courses in any combination from the above three categories** **9****College Breadth (choose one option)** **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |
| HIST 1000 and HIST 1010 - 6 hours                                    |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement - 16 Hours Required** **16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## World Languages and Literature, Bachelor of Arts with a Concentration in German Four Year Plan

**Freshman**

| <b>Fall</b>   |                             | <b>Credits</b> |
|---|-----------------------------|----------------|
| GERM 1110   | ELEMENTARY GERMAN I         | 5              |
| ENGL 1150   | ENGLISH COMPOSITION I       | 3              |
| CMST 1110   | PUBLIC SPEAKING FUNDS       | 3              |
| or CMST 2120  | or ARGUMENTATION AND DEBATE |                |
| General Education Course or Elective  |                             | 3              |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |                             |                |

**Credits** **14****Spring**

|                                      |   |     |
|--------------------------------------|---|-----|
| GERM 1120                            | ELEMENTARY GERMAN II                                    | 5   |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY               | 3   |
| General Education Course or Elective |   | 3   |
| MATH 1120                            | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING | 3-4 |
| or MATH 1130                         | or QUANTITATIVE LITERACY                                |     |
| or MATH 1140                         | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS  |     |
| or MATH 1300                         | or COLLEGE ALGEBRA WITH SUPPORT                         |     |

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

**Credits** **14-15****Sophomore**

| <b>Fall</b>  |                           |   |
|--|---------------------------|---|
| GERM 2110  | INTERMEDIATE GERMAN I (*) | 3 |
| General Education Course or Elective   |                           | 4 |
| Elective   |                           | 3 |
| General Education Course or Elective   |                           | 3 |
| General Education Course or Elective   |                           | 3 |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |                           |   |

**Credits** **16****Spring**

|                                      |                        |   |
|--------------------------------------|------------------------|---|
| GERM 2120                            | INTERMEDIATE GERMAN II | 3 |
| General Education Course or Elective |                        | 3 |
| General Education Course or Elective |                        | 3 |
| Elective                             |                        | 3 |
| Elective                             |                        | 3 |

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

**Credits** **15**

### Junior

#### Fall

|           |                         |     |
|-----------|-------------------------|-----|
| GERM 3060 | READINGS IN GERMAN      | 3   |
| GERM 3030 | GERMAN CONVERSATION (*) | 3   |
| Elective  |                         | 3-4 |
| Elective  |                         | 3   |
| Elective  |                         | 3   |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

**Credits** **15-16**

#### Spring

|                                |                              |   |
|--------------------------------|------------------------------|---|
| GERM 3040                      | GERMAN GRAMMAR & COMPOSITION | 3 |
| Upper division German elective |                              | 3 |
| Elective                       |                              | 3 |
| Elective                       |                              | 3 |
| Elective                       |                              | 3 |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

**Credits** **15**

### Senior

#### Fall

|                                  |                                     |   |
|----------------------------------|-------------------------------------|---|
| GERM 4040                        | ADVANCED COMPOSITION AND STYLISTICS | 3 |
| One GERM Literature & Film Class |                                     | 3 |
| One GERM Culture & Society class |                                     | 3 |
| Elective                         |                                     | 3 |
| Elective                         |                                     | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

#### Spring

|   |  |   |
|---|--|---|
| One GERM Linguistics and Language class |  | 3 |
| Upper division German elective          |  | 3 |
| Upper division German elective          |  | 3 |
| Elective                                |  | 3 |
| Elective                                |  | 3 |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

**Credits** **15**

**Total Credits** **119-121**

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Spanish Concentration

### World Languages and Literature, Bachelor of Arts with a Concentration in Spanish Requirements

**Code** **Title** **Credits**

#### GENERAL EDUCATION REQUIREMENTS - 34 hours required

Minimum of "C-" required

#### Fundamental Skills **15**

##### Writing – 6 hrs.

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

##### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

##### Quantitative Literacy – 3 hrs.

|           |   |
|-----------|---|
| MATH 1120 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
|-----------|---|



|              |   |
|--------------|---|
| or MATH 1130 | QUANTITATIVE LITERACY                               |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                        |

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**Concentration in Spanish - 30 Hours Required****Required Coursework 12**

SPAN 3030 SPANISH CONVERSATION (^)

or SPAN 3010 SPANISH FOR HERITAGE SPEAKERS I

SPAN 3040 SPANISH GRAMMAR AND COMPOSITION (^)

or SPAN 3020 SPANISH FOR HERITAGE SPEAKERS II

SPAN 3060 READINGS IN SPANISH (^)

SPAN 4040 ADVANCED COMPOSITION AND STYLISTICS (^)

**Select one course from the following Literature and Film courses 3**

SPAN 3170 SURVEY OF SPANISH LITERATURE I (^)

SPAN 3180 INTRODUCTION TO SPANISH LITERATURE (^)

SPAN/LLS 4140 INTRODUCTION TO LATIN AMERICAN FILM (^)

SPAN 4170 INTRODUCTION TO LATIN AMERICAN LITERATURES (^)

SPAN 4190 REPRESENTATIONS OF THE SPANISH CIVIL WAR IN FILM AND POPULAR CULTURE (^)

SPAN 4950 PRO-SEMINAR: LITERATURE AND/OR FILM (^)

**Select one course from the following Culture and Society courses 3**

SPAN 3050 LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE (^)

SPAN 3070 SPECIAL TOPICS IN SPANISH (^)

SPAN/ENVN 3310 SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD (^)

SPAN 3410 SPANISH CIVILIZATION (^)

SPAN/LLS 3420 LATIN AMERICAN CIVILIZATION (^)

SPAN/LLS 4510 ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES (^)

SPAN 4960 PRO-SEMINAR: CULTURE AND SOCIETY (^)

**Select one course from the following Linguistics and Language for the Professions 3**

SPAN 3570 SPANISH FOR HEALTHCARE PROFESSIONALS (^)

SPAN 3580 BUSINESS SPANISH (^)

SPAN 4020 LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING (^)

SPAN 4060 INTRODUCTION TO TRANSLATION AND INTERPRETATION (^)

SPAN 4070 HISPANIC BILINGUALISM (^)

SPAN 4080 INTRODUCTION TO HISPANIC LINGUISTICS (^)

SPAN 4120 HISPANIC SOCIOLINGUISTICS (^)

SPAN 4130 SPANISH IN THE UNITED STATES (^)

SPAN 4220 THE STRUCTURE OF SPANISH (^)

SPAN 4330 LINGUISTIC JUSTICE AND LATINO HEALTH (^)

SPAN 4760 FORENSIC LINGUISTICS

SPAN/WLL 4800 INTERNSHIP FOR LANGUAGE IN CONTEXT (^)

SPAN 4970 PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (^)

**Select three courses in any combination from the above categories for a total of nine hours. SPAN 4030 (Advanced Spanish Conversation) may also count toward these nine hours. 9****College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ Hours

Option 2: Additional General Education Requirements - 18+ Hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from another Discipline - 3 hours

Additional Humanities Gen. Ed. from another Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## World Languages and Literature, Bachelor of Arts with a Concentration in Spanish Four Year Plan

**Freshman****Fall****Credits**

|              |                             |   |
|--------------|-----------------------------|---|
| SPAN 1110    | ELEMENTARY SPANISH I        | 5 |
| ENGL 1150    | ENGLISH COMPOSITION I       | 3 |
| CMST 1110    | PUBLIC SPEAKING FUNDS       | 3 |
| or CMST 2120 | or ARGUMENTATION AND DEBATE |   |

|   |   |
|---|---|
| General Education Course or Elective  | 3 |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |

| Credits       |  | 14  |
|---------------|--|-----|
| <b>Spring</b> |  |     |
| SPAN 1120     | ELEMENTARY SPANISH II                                  | 5   |
| ENGL 1160     | COLLEGE RESEARCH AND INFORMATION LITERACY (**)         | 3   |
| MATH 1120     | INTRODUCTION TO MATHEMATICAL                           | 3-4 |
| or MATH 1130  | AND COMPUTATIONAL THINKING                             |     |
| or MATH 1140  | or QUANTITATIVE LITERACY                               |     |
| or MATH 1300  | or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |     |
|               | or COLLEGE ALGEBRA WITH SUPPORT                        |     |

|  |   |
|--|---|
| General Education Course or Elective   | 3 |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |   |

| Credits                              |                        | 14-15 |
|--------------------------------------|------------------------|-------|
| <b>Sophomore</b>                     |                        |       |
| <b>Fall</b>                          |                        |       |
| SPAN 2110                            | INTERMEDIATE SPANISH I | 3     |
| General Education Course or Elective |                        | 3     |
| General Education Course or Elective |                        | 3     |
| General Education Course or Elective |                        | 3     |
| Elective                             |                        | 3     |

|  |  |
|--|--|
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |  |
|--|--|

| Credits                              |                         | 15  |
|--------------------------------------|-------------------------|-----|
| <b>Spring</b>                        |                         |     |
| SPAN 2120                            | INTERMEDIATE SPANISH II | 3   |
| General Education Course or Elective |                         | 3-4 |
| General Education Course or Elective |                         | 3   |
| Elective                             |                         | 3   |
| Elective                             |                         | 3   |

|  |  |
|--|--|
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |  |
|--|--|

| Credits       |                                    | 15-16 |
|---------------|------------------------------------|-------|
| <b>Junior</b> |                                    |       |
| <b>Fall</b>   |                                    |       |
| SPAN 3030     | SPANISH CONVERSATION               | 3     |
| or SPAN 3010  | or SPANISH FOR HERITAGE SPEAKERS I |       |
| SPAN 3060     | READINGS IN SPANISH                | 3     |
| Elective      |                                    | 4     |
| Elective      |                                    | 3     |
| Elective      |                                    | 3     |

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

| Credits                         |                                     | 16 |
|---------------------------------|-------------------------------------|----|
| <b>Spring</b>                   |                                     |    |
| SPAN 3040                       | SPANISH GRAMMAR AND COMPOSITION     | 3  |
| or SPAN 3020                    | or SPANISH FOR HERITAGE SPEAKERS II |    |
| Upper division Spanish elective |                                     | 3  |
| Elective                        |                                     | 3  |
| Elective                        |                                     | 3  |
| Elective                        |                                     | 3  |

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

| Credits                          |  | 15 |
|----------------------------------|--|----|
| <b>Senior</b>                    |  |    |
| <b>Fall</b>                      |  |    |
| One SPAN Literature & Film class |  | 3  |
| Upper division Spanish course    |  | 3  |
| One SPAN Culture & Society class |  | 3  |
| Elective                         |  | 3  |
| Elective                         |  | 3  |

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

| Credits                                 |                                     | 15 |
|---|-------------------------------------|----|
| <b>Spring</b>                           |                                     |    |
| SPAN 4040                               | ADVANCED COMPOSITION AND STYLISTICS | 3  |
| One SPAN Linguistics and Language class |                                     | 3  |
| Upper division Spanish elective         |                                     | 3  |
| Elective                                |                                     | 3  |
| Elective                                |                                     | 3  |

Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink.

| Credits              |  | 15             |
|----------------------|--|----------------|
| <b>Total Credits</b> |  | <b>119-121</b> |

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the

requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.0

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## Spanish for Health Sciences Concentration

### World Languages and Literature, Bachelor of Arts with a Concentration in Spanish for Health Sciences Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 hours required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Concentration in Spanish for Health Sciences - 31 Hours Required

##### Required Coursework 19

|                           |  |
|---------------------------|--|
| SPAN 1140                 | INTRODUCTION TO SPANISH FOR HEALTH SCIENCES  |
| SPAN 3030<br>or SPAN 3010 | SPANISH CONVERSATION (^)<br>SPANISH FOR HERITAGE SPEAKERS I                                |
| SPAN 3040                 | SPANISH GRAMMAR AND COMPOSITION (^)  |
| or SPAN 3020              | SPANISH FOR HERITAGE SPEAKERS II   |
| SPAN 3060                 | READINGS IN SPANISH (^)  |
| SPAN 3570                 | SPANISH FOR HEALTHCARE PROFESSIONALS (^)   |
| or SPAN 3050              | LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE |
| or SPAN 3070              | SPECIAL TOPICS IN SPANISH  |
| SPAN 4330                 | LINGUISTIC JUSTICE AND LATINO HEALTH (^)   |
| or SPAN 4510              | ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES               |
| or SPAN 4970              | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS                                  |
| SPAN/WLL 4800             | INTERNSHIP FOR LANGUAGE IN CONTEXT (^)   |

##### Select four 3-credit courses from the following 12

|               |  |
|---------------|--|
| SPAN 3050     | LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE (^) |
| or SPAN 3070  | SPECIAL TOPICS IN SPANISH  |
| or SPAN 3570  | SPANISH FOR HEALTHCARE PROFESSIONALS   |
| SPAN 3420     | LATIN AMERICAN CIVILIZATION (^)  |
| SPAN 4020     | LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING   |
| SPAN 4030     | ADVANCED SPANISH CONVERSATION (^)  |
| SPAN 4060     | INTRODUCTION TO TRANSLATION AND INTERPRETATION (^)   |
| SPAN 4130     | SPANISH IN THE UNITED STATES (^)   |
| SPAN 4330     | LINGUISTIC JUSTICE AND LATINO HEALTH (^)   |
| or SPAN 4970  | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS                                      |
| SPAN/LLS 4510 | ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES (^)               |
| SPAN 4960     | PRO-SEMINAR: CULTURE AND SOCIETY (^)   |
| SPAN 4950     | PRO-SEMINAR: LITERATURE AND/OR FILM (^)  |

#### College Breadth (choose one option) 15-30+

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 18+ hours

|  |
|--|
| Additional quantitative literacy - 3 hours                           |
| Additional Social Science Gen. Ed. from another Discipline - 3 hours |
| Additional Humanities Gen. Ed. from another Discipline - 3 hours     |
| HIST 1000 and HIST 1010 - 6 hours                                    |
| Additional Nat. and Physical Science w/ or without Lab - 3-5 hours   |

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Arts Language Requirement 16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## World Languages and Literature, Bachelor of Arts with a Concentration in Spanish for Health Sciences Four Year Plan

### Freshman

|   |   | Credits   |
|---|---|-----------|
| SPAN 1110<br>or SPAN 1100   | ELEMENTARY SPANISH I<br>or ELEMENTARY SPANISH I FOR<br>HEALTHCARE PROFESSIONALS | 5         |
|   |   |           |
| SPAN 1140   | INTRODUCTION TO SPANISH FOR<br>HEALTH SCIENCES                                  | 1         |
| ENGL 1150   | ENGLISH COMPOSITION I   | 3         |
| General Education Course or Elective  |   | 3         |
| General Education Course or Elective  |   | 3         |
| Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic. |   |           |
| <b>Credits</b>  |   | <b>15</b> |

### Spring

|  |  |              |
|--|--|--------------|
| SPAN 1120<br>or SPAN 1200  | ELEMENTARY SPANISH II<br>or ELEMENTARY SPANISH 2<br>HEALTHCARE PROFESSIONALS | 5            |
|  |  |              |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300  | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING                   | 3-4          |
|  | or QUANTITATIVE LITERACY   |              |
|  | or QUANTITATIVE REASONING FOR<br>HEALTHCARE PROFESSIONALS                    |              |
|  | or COLLEGE ALGEBRA WITH<br>SUPPORT   |              |
| ENGL 1160  | COLLEGE RESEARCH AND<br>INFORMATION LITERACY                                 | 3            |
| General Education Course or Elective   |  | 3            |
| Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March. |  |              |
| <b>Credits</b>   |  | <b>14-15</b> |

### Sophomore

#### Fall

|  |   |   |
|--|---|---|
| SPAN 2110<br>or SPAN 2300  | INTERMEDIATE SPANISH I (*)<br>or INTERMEDIATE SPANISH I FOR<br>HEALTHCARE PROFESSIONALS | 3 |
|  |   |   |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                                    | 3 |
|  |   |   |
| General Education Course or Elective   |   | 3 |
| General Education Course or Elective   |   | 3 |
| Elective   |   | 3 |
| Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct. |   |   |

**Credits 15**

#### Spring

|  |                         |   |
|--|-------------------------|---|
| SPAN 2120  | INTERMEDIATE SPANISH II | 3 |
| General Education Course or Elective   |                         | 3 |
| General Education Course or Elective   |                         | 3 |
| Elective   |                         | 3 |
| Elective   |                         | 3 |
| Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March. |                         |   |

**Credits 15**

### Junior

#### Fall

|  |   |   |
|--|---|---|
| SPAN 3030<br>or SPAN 3010  | SPANISH CONVERSATION<br>or SPANISH FOR HERITAGE SPEAKERS<br>I | 3 |
|  |   |   |
| SPAN 3060  | READINGS IN SPANISH   | 3 |
| Elective   |   | 3 |
| Elective   |   | 3 |
| Elective   |   | 3 |
| Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct. |   |   |

**Credits 15**

#### Spring

|  |  |   |
|--|--|---|
| SPAN 3040<br>or SPAN 3020  | SPANISH GRAMMAR AND<br>COMPOSITION<br>or SPANISH FOR HERITAGE SPEAKERS<br>II | 3 |
|  |  |   |
| ONE 3000/4000 LEVEL APPROVED SPANISH ELECTIVE  |  | 3 |
| General Education Course or Elective   |  | 3 |
| Elective   |  | 3 |
| Elective   |  | 3 |
| Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March. |  |   |

**Credits 15**

**Senior  
Fall**

|  |   |   |
|--|---|---|
| SPAN 3050<br>or SPAN 3570  | LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE<br>or SPANISH FOR HEALTHCARE PROFESSIONALS | 3 |
| SPAN 4060  | INTRODUCTION TO TRANSLATION AND INTERPRETATION (or other approved 3000-4000 level SPAN course)  | 3 |
| SPAN 4330  | LINGUISTIC JUSTICE AND LATINO HEALTH (or other approved 3000-4000 level SPAN course)  | 3 |
| Elective   |   | 3 |
| Elective   |   | 3 |
| Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct. |   |   |

**Credits** **15**

**Spring**

|  |   |     |
|--|---|-----|
| SPAN 4970  | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (or other approved 3000-4000 level SPAN course)       | 3   |
| SPAN 4030<br>or SPAN 3420  | ADVANCED SPANISH CONVERSATION (or other approved 3000-4000 level SPAN course)<br>or LATIN AMERICAN CIVILIZATION | 3   |
| SPAN/WLL 4800  | INTERNSHIP FOR LANGUAGE IN CONTEXT  | 3   |
| General Education Course or Elective   |   | 3-4 |
| Elective   |   | 3   |
| Complete your final advising check before graduation. Polish your resume, cover letters, and LinkedIn profile. Stay connected by joining alumni networks and professional organizations. Apply for graduation via MavLink. |   |     |

**Credits** **15-16**

**Total Credits** **119-121**

Minimum 30 total 3000/4000 level credits in Spanish required, 31 total major credits.

**College Breadth:** Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

**Upper Level Credits:** Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**

**Note:** This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!

## French Minor

### French Minor Requirements

| Code   | Title                          | Credits   |
|--|--------------------------------|-----------|
| <b>All of the following:</b>   |                                | <b>6</b>  |
| FREN 3030  | FRENCH CONVERSATION            |           |
| FREN 3040  | FRENCH GRAMMAR AND COMPOSITION |           |
| <b>Select 9 credit hours in French electives at the 3000 or 4000 level</b> |                                | <b>9</b>  |
| <b>Total Credits</b>   |                                | <b>15</b> |

Native/heritage speakers of this language should see a departmental advisor regarding placement.

French minor residency requirement: A minimum of 9 credits at the 3000-4000 levels must be taken in residence at UNO.

## German Minor

### German Minor Requirements

| Code   | Title                        | Credits   |
|--|------------------------------|-----------|
| <b>All of the following:</b>   |                              | <b>6</b>  |
| GERM 3030  | GERMAN CONVERSATION          |           |
| GERM 3040  | GERMAN GRAMMAR & COMPOSITION |           |
| <b>Select 9 credit hours in German electives at the 3000 or 4000 level</b> |                              | <b>9</b>  |
| <b>Total Credits</b>   |                              | <b>15</b> |

Native/heritage speakers of this language should see a departmental advisor regarding placement.

German minor residency requirement: A minimum of 9 credits at the 3000-4000 levels must be taken in residence at UNO.

## Japanese Minor

### Minor in Japanese

| Code                         | Title                                       | Credits   |
|------------------------------|---|-----------|
| <b>All of the following:</b> |   | <b>12</b> |
| JAPN 2110                    | INTERMEDIATE JAPANESE                       |           |
| JAPN 2120                    | INTERMEDIATE JAPANESE II                    |           |
| JAPN 3020                    | UNDERSTANDING JAPANESE CULTURE: PRESENT DAY |           |
| JAPN 3030                    | JAPANESE CONVERSATION                       |           |
| <b>One of the following:</b> |   | <b>3</b>  |
| WLL 4800                     | INTERNSHIP FOR LANGUAGE IN CONTEXT          |           |



|                      |  |           |
|----------------------|--|-----------|
| HIST 2820            | JAPAN: FROM WARRING STATES TO THE MODERN DAY |           |
| <b>Total Credits</b> |  | <b>15</b> |

## Spanish Minor

### Spanish Minor Requirements

The Spanish minor may be completed by taking courses on campus, entirely online, or a combination of the two.

| Code  | Title                            | Credits   |
|---|----------------------------------|-----------|
| <b>Select one of the following options:</b>   |                                  | <b>9</b>  |
| Option 1 for students learning Spanish as a second language:                              |                                  |           |
| SPAN 3030   | SPANISH CONVERSATION             |           |
| SPAN 3040   | SPANISH GRAMMAR AND COMPOSITION  |           |
| SPAN 3060   | READINGS IN SPANISH              |           |
| Option 2 for heritage Spanish speakers:   |                                  |           |
| SPAN 3010   | SPANISH FOR HERITAGE SPEAKERS I  |           |
| SPAN 3020   | SPANISH FOR HERITAGE SPEAKERS II |           |
| SPAN 3060   | READINGS IN SPANISH              |           |
| <b>Additionally, select 6 credit hours in Spanish electives at the 3000 or 4000 level</b> |                                  | <b>6</b>  |
| <b>Total Credits</b>  |                                  | <b>15</b> |

Native/heritage speakers of this language should see a departmental advisor regarding placement.

Spanish minor residency requirement: A minimum of 9 credits at the 3000-4000 levels must be taken in residence at UNO.

## Spanish for Health Sciences Minor

### Spanish for Health Sciences Minor Requirements

| Code                                 | Title  | Credits   |
|--------------------------------------|--|-----------|
| <b>All of the following:</b>         |  | <b>13</b> |
| SPAN 1140                            | INTRODUCTION TO SPANISH FOR HEALTH SCIENCES  |           |
| SPAN 3030                            | SPANISH CONVERSATION   |           |
| or SPAN 3010                         | SPANISH FOR HERITAGE SPEAKERS I  |           |
| SPAN 3570                            | SPANISH FOR HEALTHCARE PROFESSIONALS   |           |
| SPAN 3050                            | LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE |           |
| or SPAN 3070                         | SPECIAL TOPICS IN SPANISH  |           |
| SPAN 4060                            | INTRODUCTION TO TRANSLATION AND INTERPRETATION   |           |
| or SPAN 4330                         | LINGUISTIC JUSTICE AND LATINO HEALTH   |           |
| or SPAN 4510                         | ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES               |           |
| <b>Select one from the following</b> |  | <b>3</b>  |
| SPAN 3420                            | LATIN AMERICAN CIVILIZATION  |           |
| SPAN 4020                            | LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING   |           |
| SPAN 4030                            | ADVANCED SPANISH CONVERSATION  |           |

|                      |  |           |
|----------------------|--|-----------|
| SPAN 4060            | INTRODUCTION TO TRANSLATION AND INTERPRETATION                               |           |
| or SPAN 4330         | LINGUISTIC JUSTICE AND LATINO HEALTH   |           |
| or SPAN 4510         | ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES |           |
| SPAN 4130            | SPANISH IN THE UNITED STATES   |           |
| <b>Total Credits</b> |  | <b>16</b> |

Spanish for Health Sciences minor residency requirement: A minimum of 9 credits at the 3000-4000 levels must be taken in residence at UNO.

Native/heritage speakers of this language should see a departmental advisor regarding placement.

## College of Business Administration (CBA)

### College of Business Administration Mission

The mission of the UNO College of Business Administration is to teach and inspire diverse learners and connect them to organizations within and beyond the classroom, emphasizing innovative and career-focused learning, combined with transformative research, business collaboration, and community engagement that advance individual and regional prosperity.

### College of Business Administration Vision

The vision of the UNO College of Business Administration is to be the business school of choice for hard-working learners of all backgrounds.

## Other Information Relevant to the College of Business Administration

### Attendance at First CBA Class Meeting

Students not present at the first class meeting of a College of Business Course, without prior notification to the instructor, may be administratively withdrawn from the course.

## Accreditation Information

The UNO College of Business Administration undergraduate and graduate programs are accredited by AACSB International (Association to Advance Collegiate Schools of Business). This is the highest level of accreditation possible for a College of Business.

The Accounting Programs in the UNO College of Business Administration hold supplemental Accounting Accreditation by AACSB. Less than 200 Accounting Programs worldwide have earned this supplemental AACSB Accounting Accreditation.

| Major                   | Degree        | Accreditation Body  |
|-------------------------|---------------|---|
| Accounting              | BSBA MAcc     | Association to Advance Collegiate Schools of Business (AACSB International) |
| Business Administration | Executive MBA | Association to Advance Collegiate Schools of Business (AACSB International) |

|   |                  |   |
|---|------------------|---|
| Business Administration                   | MBA              | Association to Advance Collegiate Schools of Business (AACSB International) |
| Banking and Financial Markets             | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Business Analytics                        | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Business Finance                          | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Economics                                 | BSBA, MA/MS Econ | Association to Advance Collegiate Schools of Business (AACSB International) |
| Entrepreneurship                          | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Human Resource Management                 | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| International Business                    | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Investment Science & Portfolio Management | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Legal Studies                             | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Management & Leadership                   | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Marketing                                 | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Real Estate & Land Use                    | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Sales                                     | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |
| Logistics & Supply Chain Management       | BSBA             | Association to Advance Collegiate Schools of Business (AACSB International) |

## Beta Gamma Sigma

Beta Gamma Sigma is the international scholastic honor society in the field of business. Election to membership is available to both undergraduate

and graduate students in business. Selection is based upon outstanding scholastic achievement.

## Careers

Business is a broad, flexible, and valuable field of study. Students who graduate with a business degree can choose from a variety of professions in numerous industries and fields. Individuals with business degrees may find career opportunities working in government, large, mid-size, and small companies, nonprofit organizations, and institutions of higher education. A business degree prepares students for a wide variety of fulfilling and flexible careers, thus providing the opportunity to match personal interests and skills with professional ambitions, as well as allowing for the opportunity to pivot and flex careers as opportunities arise. Examples of potential business-related careers are provided by each department.

For additional information about Business careers, please contact the CBA Career Center. Website (<https://www.unomaha.edu/college-of-business-administration/career-center/>):

402.554.2365 (<https://www.unomaha.edu/college-of-business-administration/career-center/402.554.2365>) | [unocareercentercba@unomaha.edu](mailto:unocareercentercba@unomaha.edu) | Mammel Hall 134T & 134X | 6708 Pine Street | Omaha, Nebraska 68182

## Program Contact Information

CBA Advising Office  
UNO College of Business Administration  
134H Mammel Hall  
University of Nebraska at Omaha  
6708 Pine Street  
Omaha, NE 68182-0048

Advising Phone: 402.554.3419  
e-mail: [unocbaadvising@unomaha.edu](mailto:unocbaadvising@unomaha.edu)

**Program Website (<https://www.unomaha.edu/college-of-business-administration/>)**

## Admission Requirements

Incoming freshman must meet general university admission requirements to be admitted into the College of Business Administration. Transfer students and students with an established NU-system GPA must have a minimum 2.50 cumulative GPA to be admitted into the College of Business Administration.

## Bachelor of Science in Business Administration (BSBA) Requirements

To earn a BSBA degree, students must fulfill the university, college, and program requirements including:

- Complete a minimum of 120 credit hours in courses approved by the College of Business Administration (CBA)
- Complete a minimum of 42 credit hours in upper-division (3000- or 4000-level) coursework
- Complete 24 upper-division (3000- or 4000-level) credit hours in the business core curriculum
- Complete 18-24 credit hours in a BSBA concentration

## Credit Restrictions

- A maximum of 24 credit hours of non-business courses may be taken on a Credit/No Credit Basis. More information about UNO's Credit/No Credit policy can be found at the following link: <https://>

[nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/](https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/) (p. 37)

- A maximum of 4 credit hours of physical education activity (PEA) courses may count toward the degree.
- A maximum of 6 hours of professional development courses evaluated by the American Council on Education (ACE) as equivalent to collegiate credit may count toward the degree. Additional information can be found under "Evaluated Non-College Programs."
- All remedial courses and any orientation courses from non-NU-system institutions will not count toward the degree.

## Minimum GPA/Additional Requirements

To graduate with a BSBA, students must meet the following GPA and grade requirements:

- Maintain a cumulative GPA of 2.50 or higher across all courses taken in the University of Nebraska system (UNO, UNL, UNK, and UNMC).
- Maintain a cumulative Business GPA of 2.50 or higher.
- For students earning the Accounting concentration or secondary concentration, maintain a cumulative GPA of 2.50 or higher in all upper-division accounting courses (excluding ACCT 3000 (<https://catalog.unomaha.edu/search/?P=ACCT%203000>), ACCT 4500 (<https://catalog.unomaha.edu/search/?P=ACCT%204500>), and ACCT 4510 (<https://catalog.unomaha.edu/search/?P=ACCT%204510>)).

For any BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" or higher.

No grade below a "C" will be counted as satisfactory completion of BSBA degree major requirements, including CBA BSBA business core courses, BSBA concentration courses, business elective courses, ENGL 1150 (<https://catalog.unomaha.edu/search/?P=ENGL%201150>), ENGL 1160 (<https://catalog.unomaha.edu/search/?P=ENGL%201160>), CMST 1110 (<https://catalog.unomaha.edu/search/?P=CMST%201110>), and MATH 1370 (<https://catalog.unomaha.edu/search/?P=MATH%201370>) (or MATH 1930 (<https://catalog.unomaha.edu/search/?P=MATH%201930>)).

Some concentrations require specific foundation courses to be completed with a grade of "C+" or higher, including:

- Business Finance, Banking and Financial Markets, and Investment Science & Portfolio Management Concentrations or Secondary Concentrations: FNBK 3250 (<https://catalog.unomaha.edu/search/?P=FNBK%203250>) and FNBK 3300
- Marketing Concentration or Secondary Concentration: MKT 3310 (<https://catalog.unomaha.edu/search/?P=MKT%203310>)
- Human Resource Management Concentration: MGMT 4030
- Sales Concentration or Secondary Concentration: MKT 3310 (<https://catalog.unomaha.edu/search/?P=MKT%203310>) and MKT 3100 (<https://catalog.unomaha.edu/search/?P=MKT%203100>)

## Credit for Prior Learning

Credit for prior learning is evaluated based on institutional, college, and program policies. CBA professional academic advisors assist students in determining how such credits apply toward their degree.

## Transfer Credit

Transfer credits are evaluated as follows:

- **Regionally Accredited Institutions:** Coursework equivalent in content and scope to UNO offerings will generally transfer if completed at regionally accredited colleges and universities.
- **Limits on Two-Year College Credits:** Students may apply a maximum of 64 semester credit hours from regionally accredited two-year institutions.

- **Four-Year Institution Credits:** There is no limit on credits transferred from regionally accredited four-year institutions, provided residency requirements are met.

For upper-division courses:

- Credits from AACSB-accredited institutions require a grade of "C" or higher to apply as a BSBA business core course, BSBA concentration course, or BSBA elective course
- Credits from non-AACSB-accredited institutions require a grade of "C" or higher and must be validated by completing an additional upper-division course at an AACSB-accredited institution in the same department to apply as a business core course.

## Evaluated Non-College Programs

A maximum of six hours of professional development course credit may be taken from any educational body if evaluated by the American Council on Education (ACE) as equivalent to collegiate credit, and then may be applied toward the degree. Such credit may be used for non-business electives. The department chair must give written approval if a course is to be used for concentration elective hours or as a substitute for a required concentration course. Professional development courses are not applicable to BSBA business core courses.

## Military Training and Experience

### Army, Coast Guard, Marine Corps and Navy

Students can earn up to 4 credits of Physical Education Activity (PEA) for completing basic training and up to 6 additional credits for ACE-evaluated courses as documented on their Joint Services Transcript (JST).

### Air Force

Air Force training is certified by the Community College of the Air Force (CCAF). CCAF is regionally accredited by the Southern Association of Colleges and Schools through Air University, therefore, CCAF courses are considered transfer credits at UNO.

### Defense Language Institute (DLI)

Operated by the U.S. Department of Defense (DoD), DLI provides linguistic and cultural instruction to members of the DoD and federal agencies. DLI courses are considered transfer credits at UNO as it is regionally accredited by the Western Association of Schools and Colleges.

## Residency Requirement

The last 30 of 36 consecutive semester hours for a degree must be earned following admission to the University of Nebraska at Omaha. A minimum of nine (9) of the twenty-four (24) required business core hours and one-half of the required concentration hours must be completed at UNO.

## Retroactive Credit Policy

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Advanced Placement Credits

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Military Credit

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## IB Credit

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Placement Exams and Credit by Department Policies/Practices

<https://nextcatalog.unomaha.edu/aboutuno/student-services-a-z/testing-center/> (p. 63)

## Quality of Work

Any students earning below a 2.50 cumulative GPA for any semester while enrolled in the BSBA degree program will be placed on a "warning status." No grade below a "C" (2.0) will be counted as satisfactory completion of BSBA degree MAJOR REQUIREMENTS, including CBA BSBA business core courses, BSBA concentration courses, business elective courses, ENGL 1150, ENGL 1160, CMST 1110, and MATH 1370 (or MATH 1930).

## Good Academic Standing Policy

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Credit/No Credit (CR/NC) Grades

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Completion of Incomplete Grade

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Repeatable Grades/Courses

Effective Fall 2002, a student may only attempt each required business core course three times.

This policy applies to the following courses:

| Code      | Title                                   | Credits |
|-----------|---|---------|
| ACCT 2010 | PRINCIPLES OF ACCOUNTING I              | 3       |
| ACCT 2020 | PRINCIPLES OF ACCOUNTING II             | 3       |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS       | 3       |
| BSAD 3160 | MANAGERIAL STATISTICS FOR BUSINESS      | 4       |
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO)         | 3       |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)         | 3       |
| FNBK 3250 | PRINCIPLES OF FINANCIAL MANAGEMENT      | 3       |
| LAWS 3930 | BUSINESS LAW FUNDAMENTALS               | 3       |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS          | 3       |
| MGMT 3490 | MANAGING PEOPLE AND ORGANIZATIONS       | 3       |
| MGMT 4480 | CORPORATE AND BUSINESS STRATEGY         | 3       |
| MKT 3200  | BUSINESS COMMUNICATIONS                 | 3       |
| MKT 3310  | PRINCIPLES OF MARKETING                 | 3       |
| SCMT 3500 | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3       |

Any grade earned, excluding CR, W, NC, NR, I, IP, AU, S, U or R will count as an attempt for the three times limit.

The Undergraduate Program Council will only consider appeals of the three-attempt rule when the circumstances for the appeal are documented and the reason for the appeal is extraordinary.

Upper-division accounting courses may be taken only twice.

## Appeal Process

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Grade Appeal Policy

Students who wish to appeal a grade which they feel was capriciously or prejudicially awarded shall first discuss the matter with the instructor and/or the department chairperson. If a satisfactory agreement cannot be reached, the student may submit a written appeal to the CBA Associate Dean by the deadlines listed below.

- For a course completed during the fall semester: The last business day in January
- For a course completed during the spring semester: The last business day in June
- For a course completed during any of the summer sessions: the last business day in September

The CBA Undergraduate Grade Appeal Committee will hold a grade appeal hearing to make a final determination based on the facts presented.

## Academic Amnesty

A student may remove one or two semester's grades from the student's cumulative GPA and degree consideration by petitioning for academic amnesty in the CBA advising office. Removal of grades via academic amnesty shall be by entire semester(s). Students are allowed a maximum of two (2) semesters of amnesty.

Petitioning students, after the term(s) for which they are seeking amnesty, must have completed 12 consecutive hours with a minimum GPA of 2.75.

Students who are granted academic amnesty will not be eligible for degree with academic honors.

Academic amnesty will remove a CBA core course attempt from the Three-Attempt Rule under Repeatable Grades/Courses. The petition for academic amnesty is submitted to the academic advisor and the advisor will apply this policy to approve or deny the petition on behalf of the Undergraduate Program Council.

## Academic Probation and Suspension

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Reinstatement Policy Following Academic Suspension

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Academic Advising

The mission of the UNO College of Business Administration Undergraduate Advising Team is to empower and inspire diverse learners to make informed and fulfilling decisions about their academic and professional journeys through individualized support for setting goals, navigating the curriculum, and making meaning of their experiences within and beyond the classroom.

The purpose of academic advising is to help students understand and meet the requirements of their degree program while also clarifying college policies related to academics. In the College of Business Administration, academic advising is provided by CBA's professional undergraduate

advisors. Students are encouraged to contact their academic advisor whenever they have questions about their academic program.

## Advising Holds

Advising holds are automatically placed each semester for any student whose GPA is below a 2.5, including students without an NU-system GPA. The purpose of this hold is to ensure students understand degree requirements, make informed decisions about next classes, and connect to other resources on campus.

## Student Holds

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/> (p. 30)

## Declaring a Concentration

Students may declare a BSBA concentration when applying to the university or at any point.

Students who did not declare a BSBA concentration when applying to the university must contact a CBA advisor to declare their concentration.

## Senior Check

Students are encouraged to contact their Academic Advisor in the last 30 credit hours to verify their remaining requirements. Final responsibility for scheduling courses and satisfactorily completing curriculum requirements for any degree rests with the student.

## Bachelor of Science in Business Administration (BSBA) Degree

Undergraduate students who complete a degree from UNO's College of Business Administration earn a Bachelor of Science in Business Administration (BSBA) with at least one area of concentration. (See the complete list of BSBA concentrations)

To earn a BSBA degree, students must fulfill the university, college, and program requirements including:

- Complete a minimum of 120 credit hours in courses approved by the College of Business Administration (CBA)
- Complete a minimum of 42 credit hours in upper-division (3000- or 4000-level) coursework
- Complete 24 upper-division (3000- or 4000-level) credit hours in the business core curriculum
- Complete 18-24 credit hours in a BSBA concentration

To graduate with a BSBA, students must meet the following GPA and grade requirements:

- Maintain a cumulative GPA of 2.50 or higher across all courses taken in the University of Nebraska system (UNO, UNL, UNK, and UNMC).
- Maintain a cumulative Business GPA of 2.50 or higher.
- For students earning the Accounting concentration or secondary concentration, maintain a cumulative GPA of 2.50 or higher in all upper-division accounting courses (excluding ACCT 3000 (<https://catalog.unomaha.edu/search/?P=ACCT%203000>), ACCT 4500 (<https://catalog.unomaha.edu/search/?P=ACCT%204500>), and ACCT 4510 (<https://catalog.unomaha.edu/search/?P=ACCT%204510>)).

For any BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" or higher.

No grade below a "C" will be counted as satisfactory completion of BSBA degree major requirements, including CBA BSBA business core courses, BSBA concentration courses, business elective courses, ENGL 1150 (<https://catalog.unomaha.edu/search/?P=ENGL%201150>), ENGL 1160 (<https://catalog.unomaha.edu/search/?P=ENGL%201160>), CMST 1110 (<https://catalog.unomaha.edu/search/?P=CMST%201110>), and MATH 1370 (<https://catalog.unomaha.edu/search/?P=MATH%201370>) (or MATH 1930 (<https://catalog.unomaha.edu/search/?P=MATH%201930>)).

Some concentrations require specific foundation courses to be completed with a grade of "C+" or higher, including:

- Business Finance, Banking and Financial Markets, and Investment Science & Portfolio Management Concentrations or Secondary Concentrations: FNBK 3250 (<https://catalog.unomaha.edu/search/?P=FNBK%203250>) and FNBK 3300
- Marketing Concentration or Secondary Concentration: MKT 3310 (<https://catalog.unomaha.edu/search/?P=MKT%203310>)
- Human Resource Management Concentration: MGMT 4030
- Sales Concentration or Secondary Concentration: MKT 3310 (<https://catalog.unomaha.edu/search/?P=MKT%203310>) and MKT 3100 (<https://catalog.unomaha.edu/search/?P=MKT%203100>)

Advising holds are automatically placed each semester for any student whose GPA is below a 2.5, including students without an NU-system GPA. The purpose of this hold is to ensure students understand degree requirements, make informed decisions about next classes, and connect to other resources on campus.

## MBA Fast Track

The College of Business Administration MBA program has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a BSBA degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BSBA degree and desiring to pursue an MBA
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.



## Contact Information

CBA Advising Office  
 UNO College of Business Administration  
 134H Mammel Hall  
 University of Nebraska at Omaha  
 6708 Pine Street  
 Omaha, NE 68182-0048

Advising Phone: 402.554.3419  
 e-mail: unocbaadvising@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-business-administration/>)**

## Business Administration, Bachelor of Science in Business Administration Degree Requirements

All BSBA students must complete all major requirements. Students must choose at least one area of concentration.

All BSBA students must complete all MAJOR REQUIREMENTS (see below) with a grade of C (2.0) or higher. Students must choose at least one area of concentration.

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy - 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs  |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS

Minimum of “C” (2.0) required for all MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following:** **9**

ENGL 1150 ENGLISH COMPOSITION I (\*\* ^)

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY (\*\* ^)

CMST 1110 PUBLIC SPEAKING FUNDS (\*\*)

**Select 1 of the Following** **3**

MATH 1370 APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)

MATH 1930 CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)

### Required Business Core Courses - 48 Hours

All courses must be completed with a C (2.00) or better.

However, some concentrations or secondary concentrations require a C+ (2.33) or better in a specific core course. See note below for specific details.

**All of the following** **45**

ECON 2200 PRINCIPLES OF ECONOMICS (MICRO) (\*\* ^)

ECON 2220 PRINCIPLES OF ECONOMICS (MACRO) (\*\* ^)

BSAD 2130 PRINCIPLES OF BUSINESS STATISTICS (^)

ACCT 2010 PRINCIPLES OF ACCOUNTING I (^)

ACCT 2020 PRINCIPLES OF ACCOUNTING II (^)

MKT 3200 BUSINESS COMMUNICATIONS (^)

MKT 3310 PRINCIPLES OF MARKETING (^)

MGMT 3490 MANAGING PEOPLE AND ORGANIZATIONS (^)

LAWS 3930 BUSINESS LAW FUNDAMENTALS (^)

FNBK 3250 PRINCIPLES OF FINANCIAL MANAGEMENT (^)

MGMT 3100 MANAGEMENT INFORMATION SYSTEMS (^)

SCMT 3500 MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)

MGMT 4480 CORPORATE AND BUSINESS STRATEGY (^)

\*\*International Dimension - 3 hrs

\*\*International Dimension - 3 hrs

**Select 1 of the Following** **3**

CMST 2120 ARGUMENTATION AND DEBATE (\*\*)

CMST 3130 SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)

CMST 3140 CONTEMPORARY PRESENTATIONS (^)

CMST 3150 INTERCOLLEGIATE FORENSICS I (^)

CMST 3160 INTERCOLLEGIATE FORENSICS II (^)

MKT 3100 PROFESSIONAL SELLING (^)

**Select an area of concentration** **18-24**

### ELECTIVES

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Prerequisites for Upper Division Core Courses

Note: MKT 3310 must be completed with a C+ (2.33) or better for the Marketing concentration and the Marketing secondary concentration; MKT 3100 & MKT 3310 must be completed with a C+

(2.33) or better for the Sales concentration and the Sales secondary concentration; and FNBK 3250 & FNBK 3300 must be completed with a C+ (2.33) or better for the Business Finance, Banking and Financial Markets, and Investment Science & Portfolio Management concentrations and the Business Finance, Banking and Financial Markets, and Investment Science & Portfolio Management secondary concentrations.

## Prerequisites for Upper Division BSBA Core Courses

| Code           | Title  | Credits |
|----------------|--|---------|
| MKT 3200       | BUSINESS COMMUNICATIONS                                | 3       |
| Prerequisites: |  |         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY              |         |
| CMST 1110      | PUBLIC SPEAKING FUNDS                                  |         |
| MKT 3310       | PRINCIPLES OF MARKETING                                | 3       |
| Prerequisites: |  |         |
| ECON 2200      | PRINCIPLES OF ECONOMICS (MICRO)                        |         |
| MATH 1220      | COLLEGE ALGEBRA  |         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY              |         |
| MKT 3200       | BUSINESS COMMUNICATIONS                                |         |
| MGMT 3490      | MANAGING PEOPLE AND ORGANIZATIONS                      | 3       |
| Prerequisites: |  |         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY              |         |
| MKT 3200       | BUSINESS COMMUNICATIONS                                |         |
| LAWS 3930      | BUSINESS LAW FUNDAMENTALS                              | 3       |
| Prerequisites: |  |         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY              |         |
| CMST 1110      | PUBLIC SPEAKING FUNDS                                  |         |
| ECON 2200      | PRINCIPLES OF ECONOMICS (MICRO)                        |         |
| MKT 3200       | BUSINESS COMMUNICATIONS                                |         |
| FNBK 3250      | PRINCIPLES OF FINANCIAL MANAGEMENT                     | 3       |
| Prerequisites: |  |         |
| ACCT 2010      | PRINCIPLES OF ACCOUNTING I                             |         |
| ECON 2200      | PRINCIPLES OF ECONOMICS (MICRO)                        |         |
| ECON 2220      | PRINCIPLES OF ECONOMICS (MACRO)                        |         |
| MATH 1320      | COLLEGE ALGEBRA  |         |
| or MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS    |         |
| or MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES |         |
| BSAD 2130      | PRINCIPLES OF BUSINESS STATISTICS                      |         |
| or BSAD 3160   | MANAGERIAL STATISTICS FOR BUSINESS                     |         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY              |         |
| MGMT 3100      | MANAGEMENT INFORMATION SYSTEMS                         | 3       |
| Prerequisites: |  |         |
| ACCT 2020      | PRINCIPLES OF ACCOUNTING II                            |         |
| MGMT 3490      | MANAGING PEOPLE AND ORGANIZATIONS                      |         |
| MKT 3200       | BUSINESS COMMUNICATIONS                                |         |
| SCMT 3500      | MANAGING OPERATIONS IN THE SUPPLY CHAIN                | 3       |
| Prerequisites: |  |         |

|  |   |   |
|--|---|---|
| BSAD 2130  | PRINCIPLES OF BUSINESS STATISTICS         |   |
| or BSAD 3160   | MANAGERIAL STATISTICS FOR BUSINESS        |   |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY |   |
| MGMT 4480  | CORPORATE AND BUSINESS STRATEGY           | 3 |
| Prerequisites:   |   |   |
| FNBK 3250  | PRINCIPLES OF FINANCIAL MANAGEMENT        |   |
| MKT 3310   | PRINCIPLES OF MARKETING                   |   |
| MGMT 3490  | MANAGING PEOPLE AND ORGANIZATIONS         |   |
| MKT 3200   | BUSINESS COMMUNICATIONS                   |   |
| Graduating seniors with a 2.5 GPA are given enrollment priority. Must be taken in the graduating semester. |   |   |

Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit.

Students must complete MGMT 4480 their last semester. Students who have not completed FNBK 3250, MKT 3310, MKT 3200 and MGMT 3490 with a C (2.00) or better or who have a GPA below 2.50 will be administratively withdrawn from MGMT 4480. Preference is given to students who will graduate that semester.

The college reserves the right to institute and make effective, after due notice, during the course of a student's work toward a degree, any new ruling which may be necessary for the general good of the college, and to substitute courses currently offered for those no longer offered.

Each student admitted to the college is responsible for becoming familiar with the procedures and regulations in the undergraduate catalog.

Specific requirements for each CBA concentration are identified in the following section of this catalog.

Credits not required under general education requirements, the required business core curriculum, or a BSBA concentration can be taken as electives in business and/or in non-business areas to complete the required 120 hours for the BSBA degree.

## Concentrations Offered

- Accounting Concentration (p. 390)
- Banking and Financial Markets Concentration (p. 397)
- Business Analytics Concentration (p. 400)
- Business Finance Concentration (p. 402)
- Certified Financial Planning Concentration (p. 404)
- Economics Concentration (p. 394)
- Entrepreneurship Concentration (p. 419)
- Human Resource Management Concentration (p. 414)
- International Business Concentration (p. 421)
- Investment Science and Portfolio Management Concentration (p. 406)
- Logistics & Supply Chain Management Concentration (p. 416)
- Management & Leadership Concentration (p. 412)
- Marketing Concentration (p. 424)
- Real Estate and Land Use Economics Concentration (p. 409)
- Sales Concentration (p. 426)

Program Certificate Offered

- Internal Audit, Fraud, and Control, Certificate (p. 393)
- UNO Real Estate Certificate (p. 411)

Minors for Non-Business Majors

- Business Analytics for Non-Business Majors Minor (p. 386)
- Business for Non-Business Majors Minor (p. 386)
- Entrepreneurship for Non-Business Majors Minor (p. 386)
- Management & Leadership for Non-Business Majors Minor (p. 387)
- Marketing for Non-Business Majors Minor (p. 387)
- Real Estate and Land Use Economics for Non Business Majors Minor (p. 387)
- Sales Minor for Non-Business Majors (p. 388)
- Logistics & Supply Chain Management for Non-Business Majors Minor (p. 388)

Other Information

Students pursuing a Business for Non-Business Majors Minor can take one of the following courses to meet the MKT 3200 prerequisite for any course that requires it: BIOL 3150, CDIS 3200, CIST 3000, CMST 3340, CRCJ 3100, ENGL 2400, ENGL 2410, ENGL 2420, ENGL 3050, ENGL 3980, FREN 4040, GEOL 4950, GERM 4040, HIST 2980, JMC 2100, MKT 3200, MLTI 4000, PHIL 3000, PHIL 4000, PSCI 2000, PSYC 3140, PSYC 3150, SOC 4900, SPAN 4040, TED 2100, TED 4800, or WRWS 3800.

All other prerequisites must be fulfilled. For more information, please contact Undergraduate Advising in the College of Business Administration at 402.554.3419.

Business Analytics Minor for Non-Business Majors

The Business Analytics Minor for Non-Business majors is intended to provide knowledge in business analytics to students outside of the College of Business Administration. Because these skills are valuable across all business fields, and to anyone who intends to use quantitative analysis to improve their decision-making, the Business Analytics Minor for Non-Business majors provides the flexibility to combine these skills with any major on campus.

Business Analytics Minor for Non-Business Majors Requirements

| Code                      | Title   | Credits |
|---------------------------|---|---------|
| 15 Hours Required         |   |         |
| All of the Following      |   | 9       |
| ECON 3310                 | SQL, DATABASES, AND DATA CLEANING FOR DATA SCIENTISTS |         |
| ECON 3300                 | INTRODUCTION TO ECONOMETRICS                          |         |
| ECON 4350                 | BUSINESS INTELLIGENCE AND REPORTING                   |         |
| Select 2 of the Following |   | 6       |
| ACCT 3050                 | INTERMEDIATE MANAGERIAL ACCOUNTING                    |         |
| ACCT 4060                 | ADVANCED MANAGERIAL ACCOUNTING                        |         |

|           |   |
|-----------|---|
| ACCT 4080 | PRINCIPLES OF AUDITING                              |
| ACCT 4020 | ANALYTICS FOR ACCOUNTING                            |
| ECON 4300 | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS |
| ECON 4510 | ECONOMIC INTERNSHIP                                 |
| ECON 4570 | ECONOMIC CONDITIONS ANALYSIS                        |
| FNBK 3400 | INVESTMENT PRINCIPLES AND PRACTICES                 |
| FNBK 4150 | ADVANCED FINANCIAL MANAGEMENT                       |
| MKT 4340  | MARKETING RESEARCH                                  |
| MKT 4370  | MARKETING ANALYTICS                                 |
| MGMT 4060 | HEALTHCARE ANALYTICS FOR BUSINESS                   |
| SCMT 4370 | SUPPLY CHAIN ANALYTICS                              |

Governance and Administration

- This minor will be administered by the Economics Department.

Business for Non-Business Majors Minor

Business for Non-Business Majors Minor Requirements

A grade of C (2.00) or better is required for a course to apply to the Business minor, and an overall 2.50 GPA within the Minor is required to earn the minor. At least 3 of the 5 courses for the Business Minor must be taken at an AACSB accredited institution.

| Code                 | Title                                     | Credits |
|----------------------|---|---------|
| All of the Following |   | 15      |
| ACCT 2000            | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS |         |
| ECON 2200            | PRINCIPLES OF ECONOMICS (MICRO)           |         |
| MKT 3310             | PRINCIPLES OF MARKETING                   |         |
| MGMT 3490            | MANAGING PEOPLE AND ORGANIZATIONS         |         |
| ENTR 3710            | ENTREPRENEURIAL FOUNDATIONS               |         |

Entrepreneurship for Non-Business Majors Minor

A minor in entrepreneurship is offered for students outside the College of Business and may be obtained by completing ENTR 3710 plus twelve (12) credit hours of specified ENTR courses for a total of fifteen (15) credit hours. A grade of C (2.00) or better is required in each course to apply to the minor and an overall GPA within the minor of 2.5 is required to earn the minor

Entrepreneurship For Non-Business Majors Minor Requirements

| Code                      | Title                                  | Credits |
|---------------------------|--|---------|
| 15 Hours Required         |  |         |
| All of the Following      |  | 3       |
| ENTR 3710                 | ENTREPRENEURIAL FOUNDATIONS            |         |
| Select 4 of the Following |  | 12      |
| ENTR 3330                 | ENTREPRENEURIAL FINANCE                |         |
| ENTR 4150                 | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP |         |

|           |  |
|-----------|--|
| ENTR 4690 | EMERGING TECHNOLOGY AND INNOVATION                   |
| ENTR 4710 | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION |
| ENTR 4720 | INNOVATION VENTURES                                  |
| ENTR 4730 | NEW VENTURE FORMATION                                |
| ENTR 4740 | TECHNOLOGY AND INNOVATION MANAGEMENT                 |
| ENTR 4750 | SOCIAL ENTREPRENEURSHIP                              |
| ENTR 4760 | SELLING IN AN ENTREPRENEURIAL CONTEXT                |
| SCMT 4450 | MANAGERIAL NEGOTIATION STRATEGIES                    |

## Management & Leadership Minor for Non-Business Majors

A minor in Management and Leadership is offered for students outside the College of Business and may be obtained by completing fifteen (15) credit hours. Each of the required courses is available through online delivery. A grade of C (2.0) or better is required in each course to be applied to the minor, and an overall GPA within the minor of 2.5 is required to earn the minor. Students must meet all prerequisites to enroll in MGMT 3490.

## Management & Leadership for Non-Business Majors Minor Requirements

| Code                             | Title                                   | Credits   |
|----------------------------------|---|-----------|
| <b>15 Hours Required</b>         |   |           |
| <b>All of the Following</b>      |   | <b>12</b> |
| MGMT 3490                        | MANAGING PEOPLE AND ORGANIZATIONS       |           |
| MGMT 4040                        | MANAGING BEHAVIOR IN ORGANIZATIONS      |           |
| MGMT 4100                        | MANAGING CHANGE AND INNOVATION          |           |
| MGMT 4230                        | LEARNING TO LEAD                        |           |
| <b>Select 1 of the Following</b> |   | <b>3</b>  |
| MGMT/ACMP 4090                   | MANAGING COLLABORATIVE ENGAGEMENT       |           |
| MGMT 3410                        | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT |           |
| MGMT 4150                        | GLOBAL BUSINESS MANAGEMENT              |           |
| MGMT 4450                        | MANAGERIAL NEGOTIATION STRATEGIES       |           |
| MGMT 4330                        | PROJECT MANAGEMENT                      |           |
| MGMT 4720                        | INNOVATION VENTURES <sup>1</sup>        |           |
| MGMT 4510                        | MANAGEMENT INTERNSHIP                   |           |
| MGMT 4030                        | HUMAN RESOURCE MANAGEMENT               |           |
| ENTR 3710                        | ENTREPRENEURIAL FOUNDATIONS             |           |

<sup>1</sup> This course has not been offered since 2020.

Note: No one course may be applied toward more than one minor area of specialization in the Department of Management.

This minor has an online delivery mode

## Marketing for Non-Business Majors Minor

Students must meet all prerequisites to enroll in MKT 3310. Students must complete MKT 3310 ([https://catalog.unomaha.edu/search/?P=MKT %203310](https://catalog.unomaha.edu/search/?P=MKT%203310)) with a C+ or above in order to take additional marketing courses and to complete the marketing minor. At least one of the courses must be MKT 4300 or MKT 4340. Any course that may be utilized for the marketing concentration may also be used for the marketing minor, with the exception of MKT 4500 & MKT 3200. A grade of C (2.00) or better is required for a course to apply to the marketing minor and an overall GPA within the minor of 2.5 is required to earn the minor.

## Marketing for Non-Business Majors Minor Requirements

| Code                             | Title                                   | Credits  |
|----------------------------------|---|----------|
| <b>15 Hours Required</b>         |   |          |
| <b>All of the Following</b>      |   | <b>6</b> |
| MKT 3310                         | PRINCIPLES OF MARKETING                 |          |
| ECON 2200                        | PRINCIPLES OF ECONOMICS (MICRO)         |          |
| <b>Select 1 of the Following</b> |   | <b>3</b> |
| MKT 4300                         | MARKETING MANAGEMENT                    |          |
| MKT 4340                         | MARKETING RESEARCH                      |          |
| <b>Select 2 of the Following</b> |   | <b>6</b> |
| MKT 3320                         | CONSUMER BEHAVIOR                       |          |
| MKT 3340                         | OMNI CHANNEL MARKETING                  |          |
| MKT 3350                         | MARKETING SERVICE PRODUCTS              |          |
| MKT 3360                         | DIGITAL MARKETING COMMUNICATIONS        |          |
| MKT 3370                         | SOCIAL MEDIA MARKETING                  |          |
| MKT 3380                         | INTERNATIONAL MARKETING                 |          |
| MKT 3400                         | MARKETING INNOVATION                    |          |
| MKT 3410                         | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT |          |
| MKT 3600                         | BUSINESS ETHICS                         |          |
| MKT 3610                         | BUSINESS TO BUSINESS MARKETING          |          |
| MKT 4000                         | SPECIAL TOPICS IN MARKETING             |          |
| MKT 4200                         | CONSULTATIVE SELLING PRINCIPLES         |          |
| MKT 4210                         | SELLING FINANCIAL SERVICES              |          |
| MKT 4220                         | GLOBAL STRATEGIC ACCOUNT MANAGEMENT     |          |
| MKT 4320                         | SALES MANAGEMENT                        |          |
| MKT 4360                         | E-MARKETING                             |          |
| MKT 4370                         | MARKETING ANALYTICS                     |          |
| MKT 4420                         | BUSINESS DEMOGRAPHICS                   |          |
| MKT 4510                         | MARKETING INTERNSHIP                    |          |
| MKT 4720                         | INNOVATION VENTURES                     |          |
| MKT 4800                         | HONORS STUDIES IN MARKETING             |          |
| MKT 4760                         | SELLING IN AN ENTREPRENEURIAL CONTEXT   |          |

## Real Estate and Land Use Economics, Minor

A minor in Real Estate and Land Use Economics is offered for students outside the College of Business and may be obtained by completing fifteen (15) credit hours of coursework. A grade of "C" (2.0) or better is required in each course to be applied to the minor, and an overall GPA within the minor

of 2.5 is required to earn the minor. A minor in Real Estate and Land Use Economics is not available for business majors.

Real Estate and Land Use Economics for Non-Business Majors Minors Requirements

| Code                             | Title   | Credits |
|----------------------------------|---|---------|
| 15 Hours Required                |   |         |
| All of the Following             |   | 3       |
| RELU 3410                        | REAL ESTATE PRINCIPLES AND PRACTICES                    |         |
| Select up 2 - 4 of the Following |   | 6-12    |
| RELU 2700                        | REAL PROPERTY RIGHTS AND OWNERSHIP: OVERCOMING BARRIERS |         |
| RELU 3430                        | REAL ESTATE BROKERAGE AND SALES                         |         |
| RELU 3450                        | PROPERTY MANAGEMENT                                     |         |
| RELU 3460                        | REAL ESTATE LAW   |         |
| RELU 4390                        | REAL ESTATE INVESTMENTS                                 |         |
| RELU 4400                        | RESIDENTIAL REAL ESTATE FINANCE                         |         |
| RELU 4410                        | BASIC APPRAISAL PROCEDURES                              |         |
| RELU 4440                        | REAL ESTATE DEVELOPMENT                                 |         |
| RELU 4500                        | REAL ESTATE INDEPENDENT STUDY                           |         |
| RELU 4510                        | REAL ESTATE INTERNSHIP                                  |         |
| Select 0 - 2 of the Following    |   | 0-6     |
| CNST 112                         | CONSTRUCTION COMMUNICATIONS                             |         |
| CNST 485                         | CONSTRUCTION PLANNING, SCHEDULING, AND CONTROLS         |         |
| ENTR 3710                        | ENTREPRENEURIAL FOUNDATIONS                             |         |
| ENVN/GEOG 4820                   | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS         |         |
| GEOG 4120                        | URBAN GEOGRAPHY   |         |
| PSYC 3130                        | STATISTICS FOR THE BEHAVIORAL SCIENCES                  |         |
| SOC 3690                         | SOCIAL INEQUALITY                                       |         |

Sales Minor for Non-Business Majors

The Sales minor for non-business majors provides students outside the College of Business Administration with the opportunity to develop knowledge and skills in relational and consultative selling that will enable them to effectively carry out sales functions across a variety of contexts, career paths, and industries.

Students must complete MKT 3310 with a C+ or above in order to take additional marketing/sales courses and to complete the Sales minor. A grade of C (2.0) or better is required in each course to be applied to the minor, and an overall GPA within the minor of 2.5 is required to earn the minor.

Sales for Non-Business Majors Minor Requirements

| Code                 | Title                                | Credits |
|----------------------|--------------------------------------|---------|
| 15 Hours Required    |                                      |         |
| All of the Following |                                      | 9       |
| ECON 2200            | PRINCIPLES OF ECONOMICS (MICRO)      |         |
| MKT 3310             | PRINCIPLES OF MARKETING <sup>1</sup> |         |
| MKT 3100             | PROFESSIONAL SELLING <sup>1</sup>    |         |

|                           |                                       |   |
|---------------------------|---------------------------------------|---|
| Select 2 of the Following |                                       | 6 |
| MKT 3320                  | CONSUMER BEHAVIOR                     |   |
| MKT 3340                  | OMNI CHANNEL MARKETING                |   |
| MKT 3350                  | MARKETING SERVICE PRODUCTS            |   |
| MKT 3400                  | MARKETING INNOVATION                  |   |
| MKT 3600                  | BUSINESS ETHICS                       |   |
| MKT 3610                  | BUSINESS TO BUSINESS MARKETING        |   |
| MKT 4000                  | SPECIAL TOPICS IN MARKETING (Sales)   |   |
| MKT 4210                  | SELLING FINANCIAL SERVICES            |   |
| MKT 4220                  | GLOBAL STRATEGIC ACCOUNT MANAGEMENT   |   |
| MKT 4510                  | MARKETING INTERNSHIP                  |   |
| MKT 4760                  | SELLING IN AN ENTREPRENEURIAL CONTEXT |   |
| SCMT 4450                 | MANAGERIAL NEGOTIATION STRATEGIES     |   |

<sup>1</sup> C+ or better is required

Logistics & Supply Chain Management for Non-Business Majors Minor

Logistics & Supply Chain Management for Non-Business Majors Minor Requirements

A minor in Logistics & Supply Chain Management is offered for students outside the College of Business and may be obtained by completing fifteen (15) credit hours. A grade of C (2.0) or better is required in each course to be applied to the minor, and an overall GPA within the minor of 2.5 is required to earn the minor. A minor in Logistics & Supply Chain Management is not offered for business majors.

| Code                      | Title  | Credits |
|---------------------------|--|---------|
| 15 Hours Required         |  |         |
| All of the Following      |  | 6       |
| SCMT 3410                 | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT                    |         |
| SCMT/MKT 4380             | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT             |         |
| Select 3 of the Following |  | 9       |
| ACCT 2000                 | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS                  |         |
| OR                        |  |         |
| ACCT 2010 & ACCT 2020     | PRINCIPLES OF ACCOUNTING I and PRINCIPLES OF ACCOUNTING II |         |
| ECON 1200                 | SURVEY OF ECONOMICS  |         |
| ECON 2200                 | PRINCIPLES OF ECONOMICS (MICRO)                            |         |
| ECON 2220                 | PRINCIPLES OF ECONOMICS (MACRO)                            |         |
| MGMT 3490                 | MANAGING PEOPLE AND ORGANIZATIONS                          |         |
| SCMT/MGMT 4450            | MANAGERIAL NEGOTIATION STRATEGIES                          |         |
| SCMT/MGMT 4330            | PROJECT MANAGEMENT   |         |
| SCMT 4350                 | GLOBAL SOURCING AND INNOVATION                             |         |
| SCMT 4540                 | SUPPLY CHAIN MANAGEMENT INTERNSHIP                         |         |



|                |  |
|----------------|--|
| ISQA/SCMT 4160 | ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING |
| SCMT 3500      | MANAGING OPERATIONS IN THE SUPPLY CHAIN          |
| SCMT 4370      | SUPPLY CHAIN ANALYTICS                           |
| SCMT 4170      | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT       |
| SCMT 4460      | SUPPLY CHAIN INTEGRATION                         |
| SCMT 4060      | HEALTHCARE ANALYTICS FOR BUSINESS                |
| SCMT 4070      | INTERNATIONAL LOGISTICS MANAGEMENT               |
| SCMT 4160      | ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING |

## BSBA as a Second Bachelor's Degree

All BSBA concentrations require 18 credit hours, except Accounting, which requires 24 credit hours.

Some concentrations or secondary concentrations require students to earn a "C+" or better in specific foundation courses. Specifically, MKT 3310 is the foundation course for the Marketing concentration as well as for the Marketing secondary concentration. MKT 3310 & MKT 3100 are the foundation courses for Sales concentration as well as for the Sales secondary concentration. Finally, FNBK 3250 & FNBK 3300 are the foundation courses for the Business Finance, Banking and Financial Markets, and Investment Science & Portfolio Management concentrations as well as the Business Finance, Banking and Financial Markets, and Investment Science & Portfolio Management secondary concentrations.

To meet requirements for the BSBA degree, students must earn a minimum of 120 credit hours in courses acceptable to the College of Business Administration: 42 of those credits must be upper division courses (3000-4000 level), with the following requirements:

- Business GPA of 2.50 or above
- Cumulative GPA of 2.50 or above
- GPA of 2.50 or above for all upper division accounting courses (excluding ACCT 3000, ACCT 4500, and ACCT 4510) for the accounting concentration and secondary concentration.
- No grade below a "C" (2.0) will be counted as satisfactory completion of BSBA degree MAJOR REQUIREMENTS, including CBA BSBA business core courses, BSBA concentration courses, business elective courses, ENGL 1150, ENGL 1160, CMST 1110 and MATH 1370 (or MATH 1930).

An Advising hold will be placed if a student does not meet the 2.5 GPA. The hold will not be removed until the requirements are met or the student chooses a major outside the College of Business Administration.

## BSBA as a Second Bachelor's Degree Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>MAJOR REQUIREMENTS - 60-66 Hours Required</b> |  |           |
| <b>Select 1 of the Following</b>                 |  | <b>3</b>  |
| MATH 1370  | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |           |
| MATH 1930  | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| <b>All of the Following</b>                      |  | <b>39</b> |
| ECON 2200  | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |           |

|           |   |
|-----------|---|
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) (** ^)      |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS (^)       |
| ACCT 2010 | PRINCIPLES OF ACCOUNTING I (^)              |
| ACCT 2020 | PRINCIPLES OF ACCOUNTING II (^)             |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                 |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                 |
| MGMT 3490 | MANAGING PEOPLE AND ORGANIZATIONS (^)       |
| LAWS 3930 | BUSINESS LAW FUNDAMENTALS (^)               |
| FNBK 3250 | PRINCIPLES OF FINANCIAL MANAGEMENT (^)      |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS (^)          |
| SCMT 3500 | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^) |
| MGMT 4480 | CORPORATE AND BUSINESS STRATEGY (^)         |

### Concentration Courses

**18-24**

### ELECTIVES

Elective hours as required to reach a total of 120 hours

Students who previously earned a business degree cannot earn a second business degree. If a student completes all requirements (including any necessary prerequisites) associated with an additional BSBA concentration after earning a business degree, the student's transcript will only list the courses completed, not the additional BSBA concentration. If desired, upon completion of all BSBA concentration requirements, the student may request (through CBA's Undergraduate Advising Office) a letter indicating that the student has completed all requirements for the additional BSBA concentration.

## Accounting Mission Statement

The UNO School of Accounting leverages its distinctive metropolitan position to:

- Prepare students for professional accounting and business careers by delivering AACSB Accounting Accredited and IMA Endorsed BSBA-Accounting and Master of Accounting programs,
- Create and disseminate knowledge that impacts students, the academy, and business professionals by engaging in relevant scholarly activities, and
- Enrich relationships among students, faculty, and business professionals in the Omaha region by providing and supporting engagement opportunities.

The UNO School of Accounting has earned supplemental accounting accreditation by the AACSB International (Association to Advance Collegiate Schools of Business) for its undergraduate and graduate programs in accounting. This accreditation is in addition to the UNO College of Business Administration's AACSB business accreditation. Fewer than 200 institutions worldwide hold both AACSB business and accounting accreditation. Information about AACSB accreditation is available here (<https://www.aacsb.edu/educators/accreditation/business-accreditation/>).

The UNO School of Accounting has received the IMA Endorsement of Higher Education from the Institute of Management Accountants for its management accounting curricula. UNO's accounting programs meet the educational standards enabling students to pursue the Certified Management Accountant (CMA) credential and careers in private and public accounting. Information about the IMA's endorsement program

is available here (<https://www.imanet.org/educators/higher-education-endorsement-program/?ssopc=1>).

The UNO School of Accounting is recognized by the Institute of Internal Auditors (IIA) as an IIA Internal Audit Awareness Program School, acknowledging our incorporation of internal auditing concepts in auditing courses. See information about the this IIA program here (<https://www.theiia.org/en/about-us/initiatives-and-awards/academic-relations/internal-audit-academic-awareness-program/>).

Accounting students have the opportunity to acquire an excellent accounting education that provides a foundation to pursue one of the numerous career paths in accounting. Accounting faculty members use appropriate and varied teaching methodologies and who incorporate the most recent developments in their discipline into the curriculum. Accounting instructors seek to create an environment which maximizes the development of critical skills such as problem solving, analysis, technology agility, communication and teamwork. Students are strongly encouraged to continue their professional development and to enhance their careers by seeking a Master of Accounting and one or more professional certifications or designations. Well-recognized and valued accounting certifications include the Certified Public Accountant (CPA), the Certified Management Accountant (CMA), the Certified Internal Auditor (CIA), the Certified Fraud Examiner (CFE), and the Certified Information Systems Auditor (CISA).

Complete information on the MAcc degree program is available online (<https://www.unomaha.edu/college-of-business-administration/accounting/graduate-program/>) or in the UNO graduate catalog. Additional information about the undergraduate accounting program, including links to professional associations and certification resources, is available online (<https://www.unomaha.edu/college-of-business-administration/accounting/>).

BSBA degree candidates may earn a concentration in accounting, and BSBA degree candidates earning a concentration in other business areas may earn a secondary concentration in accounting.

## Special Requirements

Course-related items:

1. Students interested in taking the CPA Exam in Nebraska must complete ACCT 4070 or ACCT 8076 or ACCT 8090.
2. Students pursuing an accounting concentration who complete ACCT 3080 with a grade of C or better are not required to take the business core course MGMT 3100.

### Concentration-related items:

- A student may enroll only twice in any upper-division accounting course. You are enrolled in a course if your name appears on the final class list published immediately after drop/add week. Therefore, you may drop a course only one time (excluding drops during drop/add week). If you drop the same course twice (or receive any grade below a C twice), you will not be permitted to enroll in this course a third time.
- A minimum GPA of 2.50 overall is required for enrollment in any upper-division (3000-level or 4000-level) accounting course.
- Accounting courses at the 4000-level also require a minimum GPA of 2.50 in all upper-division UNO accounting courses successfully completed to date (excluding ACCT 3000, ACCT 4500, and ACCT 4510).
- Students who wish to contract to take upper-division accounting courses as "honors" courses should contact the course instructor.

**Accounting** study at UNO provides the skills for numerous career choices in the accounting field as well as an excellent foundation to pursue CPA, CMA, and other types of certifications. Accounting career options include professional positions in the areas of auditing and information systems, financial accounting, management accounting, and taxation. The School of Accounting offers Power Dinners and the annual Meet the Firms Expo as part of its Accounting Careers Program for students to explore numerous

accounting career paths and to engage with accounting professionals.

The School of Accounting's Accounting Career Advisor and Internship Coordinator mentors and advises students and provides guidance for internships and other career opportunities.

## Student Groups

### Beta Alpha Psi

Beta Alpha Psi (BAP) is an honor organization for financial information students and practicing professionals. The primary objective of Beta Alpha Psi is to encourage and give recognition to scholastic and professional excellence. This includes promoting the study and practice of accounting, finance, and information systems; providing opportunities for self-development, service and the association of members with practicing professionals; and encouraging a sense of ethical, social and civic responsibility. Membership into Beta Alpha Psi is based on scholastic achievement. The UNO BAP chapter also leads the Accounting Careers Program.

### Contact:

UNO School of Accounting at 402.554.3650  
or [unocbaaccounting@unomaha.edu](mailto:unocbaaccounting@unomaha.edu)

**Website** (<http://cba.unomaha.edu/accounting/>)

## Degrees Offered

Bachelor of Science in Business Administration (<https://catalog.unomaha.edu/undergraduate/college-business-administration/bs-business-administration/>)

## Concentrations Offered

- Accounting Concentration (p. 391)

## Secondary Concentrations Offered

- Secondary Concentration in Accounting (p. 391)

## Certificate

- Internal Audit, Fraud, and Control Certificate (p. 393)

## Accounting

- Billing Clerk
- Bookkeeper
- Chief Financial Officer
- Collections Clerk
- Controller
- Cost Accountant
- General Accountant
- Internal Auditor
- Inventory Analyst
- IT Auditor
- Payroll Clerk
- Public Accountant
- Purchasing Manager
- Tax Accountant
- Treasurer

# Accounting Concentration

To earn an accounting concentration, a student must

- earn a minimum GPA of 2.50 overall, and
- earn a minimum GPA of 2.50 in all upper-division accounting courses successfully completed at UNO (excluding ACCT 3000 (<https://catalog.unomaha.edu/search/?P=ACCT%203000>), ACCT 4500 (<https://catalog.unomaha.edu/search/?P=ACCT%204500>), and ACCT 4510 (<https://catalog.unomaha.edu/search/?P=ACCT%204510>)).

## BSBA Degree - Accounting Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 75 Hours Required</b>   |   |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                            |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)        |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                              |           |
| <b>Select 1 of the Following</b>  |   | <b>3</b>  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^) |           |

|   |  |           |
|---|--|-----------|
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| <b>All of the Following</b>   |  | <b>45</b> |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |           |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |           |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                             |           |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                            |           |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |           |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                |           |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                      |           |
| LAWS 3930   | BUSINESS LAW FUNDAMENTALS (^)                              |           |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                     |           |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |           |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)                |           |
| MGMT 4480   | CORPORATE AND BUSINESS STRATEGY (^)                        |           |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |           |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |           |
| *Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit. |  |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                              |           |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)   |           |
| CMST 3140   | CONTEMPORARY PRESENTATIONS (^)                             |           |
| CMST 3150   | INTERCOLLEGIATE FORENSICS I (^)                            |           |
| CMST 3160   | INTERCOLLEGIATE FORENSICS II (^)                           |           |
| MKT 3100  | PROFESSIONAL SELLING (^)                                   |           |
| <b>Accounting Concentration Courses</b>   |  |           |
| <b>All of the Following</b>   |  | <b>21</b> |
| ACCT 3020   | BASIC FEDERAL INCOME TAXATION (^)                          |           |
| ACCT 3030   | INTERMEDIATE FINANCIAL ACCOUNTING I (^)                    |           |
| ACCT 3040   | INTERMEDIATE FINANCIAL ACCOUNTING II (^)                   |           |
| ACCT 3050   | INTERMEDIATE MANAGERIAL ACCOUNTING (^)                     |           |
| ACCT 3080   | ACCOUNTING INFORMATION SYSTEMS (^)                         |           |
| ACCT 4020   | ANALYTICS FOR ACCOUNTING (^)                               |           |
| ACCT 4080   | PRINCIPLES OF AUDITING (^)                                 |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| ACCT 4010   | ADVANCED FINANCIAL ACCOUNTING (^)                          |           |
| ACCT 4040   | ADVANCED FEDERAL INCOME TAXATION (^)                       |           |
| ACCT 4050   | PRINCIPLES OF INTERNAL AUDIT (^)                           |           |
| ACCT 4060   | ADVANCED MANAGERIAL ACCOUNTING (^)                         |           |
| ACCT 4070   | GOVERNMENTAL/NONPROFIT ACCOUNTING AND AUDITING (^)         |           |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Secondary Concentration in Accounting Requirements

| Code                        | Title                                    | Credits   |
|-----------------------------|--|-----------|
| <b>All of the Following</b> |  | <b>12</b> |
| ACCT 3020                   | BASIC FEDERAL INCOME TAXATION (^)        |           |
| ACCT 3030                   | INTERMEDIATE FINANCIAL ACCOUNTING I (^)  |           |
| ACCT 3040                   | INTERMEDIATE FINANCIAL ACCOUNTING II (^) |           |
| ACCT 3050                   | INTERMEDIATE MANAGERIAL ACCOUNTING (^)   |           |

### Special Requirements

Course-related items:

1. Students interested in taking the CPA Exam in Nebraska must complete ACCT 4070 (<https://catalog.unomaha.edu/search/?P=ACCT%204070>).
2. Students pursuing an accounting concentration who complete ACCT 3080 (<https://catalog.unomaha.edu/search/?P=ACCT%203080>) with a grade of C or better are not required to take the business core course MGMT 3100 (<https://catalog.unomaha.edu/search/?P=MGMT%203100>).

### Concentration-related items:

- A student may enroll only twice in any upper-division accounting course. You are enrolled in a course if your name appears on the final class list published immediately after drop/add week. Therefore, you may drop a course only one time (excluding drops during drop/add week). If you drop the same course twice (or receive any grade below a C twice), you will not be permitted to enroll in this course a third time.
- A minimum GPA of 2.50 overall is required for enrollment in any upper-division (3000-level or 4000-level) accounting course.
- Accounting courses at the 4000-level also require a minimum GPA of 2.50 in all upper-division accounting courses successfully completed at UNO to date (excluding ACCT 3000 (<https://catalog.unomaha.edu/search/?P=ACCT%203000>), ACCT 4500 (<https://catalog.unomaha.edu/search/?P=ACCT%204500>), and ACCT 4510 (<https://catalog.unomaha.edu/search/?P=ACCT%204510>)).
- Students who wish to contract to take upper-division accounting courses as "honors" courses should contact the course instructor.

Contact: UNO School of Accounting at 402.554.3650 or [unocbaaccounting@unomaha.edu](mailto:unocbaaccounting@unomaha.edu)

Website: <https://cba.unomaha.edu/accounting/>

## BSBA Degree - Accounting Concentration Four Year Plan

**Freshman**

| <b>Fall</b>                          |   | <b>Credits</b> |
|--------------------------------------|---|----------------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>        | 3              |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup> | 4              |
| CMST 1110                            | PUBLIC SPEAKING FUNDS                     | 3              |
| General Education Course or Elective |   | 3              |

|                |  |           |
|----------------|--|-----------|
| BSAD 1100      | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1         |
| <b>Credits</b> |  | <b>14</b> |

**Spring**

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3 |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3 |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3 |
| General Education Course or Elective |   | 3 |
| General Education Course or Elective |   | 3 |

**Credits** **15**

**Sophomore****Fall**

|                                      |                                 |   |
|--------------------------------------|---------------------------------|---|
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3 |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3 |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3 |
| General Education Course or Elective |                                 | 4 |
| General Education Course or Elective |                                 | 3 |

**Credits** **16**

**Spring**

|                                      |                                   |   |
|--------------------------------------|-----------------------------------|---|
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II       | 3 |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS | 3 |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS | 3 |
| MKT 3310                             | PRINCIPLES OF MARKETING           | 3 |
| General Education Course or Elective |                                   | 3 |

**Credits** **15**

**Junior****Fall**

|                            |                                     |   |
|----------------------------|-------------------------------------|---|
| LAWS 3930                  | BUSINESS LAW FUNDAMENTALS           | 3 |
| FNBK 3250                  | PRINCIPLES OF FINANCIAL MANAGEMENT  | 3 |
| Second Speech <sup>3</sup> |                                     | 3 |
| ACCT 3020                  | BASIC FEDERAL INCOME TAXATION       | 3 |
| ACCT 3030                  | INTERMEDIATE FINANCIAL ACCOUNTING I | 3 |

**Credits** **15**

**Spring**

|                                      |                                      |   |
|--------------------------------------|--------------------------------------|---|
| General Education Course or Elective |                                      | 3 |
| International Dimension              |                                      | 3 |
| ACCT 3040                            | INTERMEDIATE FINANCIAL ACCOUNTING II | 3 |
| ACCT 3080                            | ACCOUNTING INFORMATION SYSTEMS       | 3 |
| Elective                             |                                      | 3 |

**Credits** **15**

**Senior****Fall**

|                         |   |   |
|-------------------------|---|---|
| ACCT 3050               | INTERMEDIATE MANAGERIAL ACCOUNTING      | 3 |
| ACCT 4080               | PRINCIPLES OF AUDITING <sup>4</sup>     | 3 |
| SCMT 3500               | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3 |
| Elective                |   | 3 |
| International Dimension |   | 3 |

**Credits** **15**

**Spring**

|           |                                 |   |
|-----------|---------------------------------|---|
| MGMT 4480 | CORPORATE AND BUSINESS STRATEGY | 3 |
|-----------|---------------------------------|---|

|   |                                       |            |
|---|---------------------------------------|------------|
| ACCT 4020                                     | ANALYTICS FOR ACCOUNTING <sup>4</sup> | 3          |
| Accounting 4000 level Elective <sup>4,5</sup> |                                       | 3          |
| Elective                                      |                                       | 3          |
| Elective                                      |                                       | 3          |
| <b>Credits</b>                                |                                       | <b>15</b>  |
| <b>Total Credits</b>                          |                                       | <b>120</b> |

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>4</sup> Cumulative upper-division Accounting GPA of at least 2.5 is required for enrollment in any 4000-level accounting course.

<sup>5</sup> See DegreeWorks or Stellic for approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

**\*\*Transfer credit or placement exam scores may change suggested plan of study**

#### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

#### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.

CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Internal Audit, Fraud, and Control Certificate

The objective of the Internal Audit, Fraud, and Control Certificate is to provide students with current information in the profession of internal audit, accounting information systems, and fraud risk assessment. The certificate provides a foundation for the Certified Internal Auditor (CIA) examination and certification. Earning this certificate will encourage and prepare students to pursue the CIA credential. This certificate and potential professional certification will help students sharpen their skills and earn a

standard of credibility and recognition of competence in the field. Students interested in pursuing the IAFC certificate may contact CBA Advising ([unocbaadvising@unomaha.edu](mailto:unocbaadvising@unomaha.edu)).

## Internal Auditing, Fraud, and Control (IAFC) Certificate Requirements

| Code                 | Title                          | Credits   |
|----------------------|--------------------------------|-----------|
| ACCT 3080            | ACCOUNTING INFORMATION SYSTEMS | 3         |
| ACCT 4050            | PRINCIPLES OF INTERNAL AUDIT   | 3         |
| ACCT 4020            | ANALYTICS FOR ACCOUNTING       | 3         |
| ACCT 4080            | PRINCIPLES OF AUDITING         | 3         |
| <b>Total Credits</b> |                                | <b>12</b> |

## Economics

Economists are problem solvers. The profession has produced methods to better match organ recipients with donors (saving countless lives), improved the financial savings rate for U.S. veterans, and reduced crime through small incentives.

The field is a method of studying humans using models and data; it is not a series of facts about the economy you memorize. While economics includes the study of what people buy and how products are produced, the field is far more expansive. Economics can be applied to numerous fields including art, education, law, medicine, psychology, sociology, and urban studies. Further, economics is the foundational science on which all business fields are built.

*Economics is a systematic and scientific way of looking at human choices.*

Economics has been the steppingstone to a future career for many of the nation's most ambitious people. In addition to numerous CEOs and U.S. Presidents, economics is the most popular degree at six out of the eight Ivy League schools (Business Insider, "The three most popular majors at every Ivy League school").

Career opportunities are vast when you hold an economics degree. Warren Buffett (Berkshire Hathaway), Sheryl Sandberg (Meta/Facebook), Sandra Day O'Connor (former Associate Justice of the U.S. Supreme Court), and Nate Silver (FiveThirtyEight) all hold economics degrees. While their careers are very different, they all use the methods and data analysis tools taught in economics to further their success.

Economists are employed by private businesses, public sectors, and non-profit organizations and are among the highest paid disciplines. In businesses, economists' duties include various forms of analysis to help make business decisions. Common job titles include Data Analyst, Data Scientist, Market Research Analyst, Financial Analyst, Technical Analyst, and Research Associate.

Here at UNO, we offer three different undergraduate programs in economics: A STEM-designated Bachelor of Science in Economics (<https://catalog.unomaha.edu/undergraduate/college-arts-sciences/economics/economics-bs/>), a Bachelor of Arts in Economics (<https://catalog.unomaha.edu/undergraduate/college-arts-sciences/economics/economics-ba/>), and a Bachelor of Science in Business Administration - Economics Concentration (<https://catalog.unomaha.edu/undergraduate/college-business-administration/bs-business-administration/economics/>). These programs contain nearly the same economics courses: which degree makes the most sense for you depends on your other interests.

In addition, economics is superb preparation for graduate work in areas such as business, law, political science, international relations, gerontology, and public administration. Economics also is an excellent dual **major** or **minor** for other areas of study.



## Economics Club

The main purpose of the UNO Economics Club is to increase awareness and knowledge of economic issues among Economics Club members and the overall UNO community. The organization also provides a venue for student-members to examine issues related to academic success, career success, and related matters. The organization shall work towards increasing the membership's engagement with the Omaha community.

Membership eligibility includes all currently enrolled students in good standing who pay University Program and Facilities Fees (UPFF) at UNO. Any individual from the community is eligible for membership without voting privileges and the ability to run for office.

Any person who satisfies the eligibility requirements may become a member of the organization by completing an Economics Club Membership Form. The membership form is available at MH 332C or may be downloaded here (<https://www.unomaha.edu/college-of-business-administration/>). Contact phone number: 402.554.2803

## Economics Fast Track Program

The Department of Economics has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- The program is available for undergraduate students pursuing the BS in Business Administration (with a concentration in Economics), BS in Economics, or BA in Economics, desiring to pursue a MS in Economics.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

Students in the Fast Track program must only enroll in dual-level ECON courses (ECON 8xx6) as their graduate coursework prior to admittance to the graduate program.

## Contact Phone

402.554.2803

**Website** (<http://cba.unomaha.edu/economics/>)

## Degrees Offered

Bachelor of Science in Business Administration (<https://catalog.unomaha.edu/undergraduate/college-business-administration/bs-business-administration/>)

## Concentrations Offered

- Business Analytics Concentration (p. 400)
- Economics Concentration (p. 394)

## Secondary Concentrations Offered

- Secondary Concentration in Economics (p. 394)
- Secondary Concentration in Business Analytics (p. 400)

- Actuary
- Business Journalist
- Consultant
- Data and Analytics Specialist
- Economic Analyst
- Economic Researcher
- Economic Strategist
- Financial Advisor
- Financial Analyst
- Market Analyst
- Policy Analyst
- Statistician
- Supply Chain Analyst

## Economics Concentration

## BSBA Degree with Economics Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b> |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 69 Hours Required**

Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following:**

ENGL 1150 ENGLISH COMPOSITION I (\*\* ^)

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY (\*\* ^)

CMST 1110 PUBLIC SPEAKING FUNDS (\*\*)

**Select 1 of the Following 3**

MATH 1370 APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)

MATH 1930 CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)

**All of the Following 45**

ECON 2200 PRINCIPLES OF ECONOMICS (MICRO) (\*\* ^)

ECON 2220 PRINCIPLES OF ECONOMICS (MACRO) (\*\* ^)

BSAD 2130 PRINCIPLES OF BUSINESS STATISTICS (^)

ACCT 2010 PRINCIPLES OF ACCOUNTING I (^)

ACCT 2020 PRINCIPLES OF ACCOUNTING II (^)

MKT 3200 BUSINESS COMMUNICATIONS (^)

MKT 3310 PRINCIPLES OF MARKETING (^)

MGMT 3490 MANAGING PEOPLE AND ORGANIZATIONS (^)

LAWS 3930 BUSINESS LAW FUNDAMENTALS (^)

FNBK 3250 PRINCIPLES OF FINANCIAL MANAGEMENT (^)

MGMT 3100 MANAGEMENT INFORMATION SYSTEMS (^)

SCMT 3500 MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)

MGMT 4480 CORPORATE AND BUSINESS STRATEGY (^)

\*INTERNATIONAL DIMENSION - 3 hrs

\*INTERNATIONAL DIMENSION - 3 hrs

\*Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit.

**Select 1 of the Following 3**

CMST 2120 ARGUMENTATION AND DEBATE (\*\*)

CMST 3130 SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)

CMST 3140 CONTEMPORARY PRESENTATIONS (^)

CMST 3150 INTERCOLLEGIATE FORENSICS I (^)

CMST 3160 INTERCOLLEGIATE FORENSICS II (^)

MKT 3100 PROFESSIONAL SELLING (^)

**Economics Concentration Courses**

**All of the Following 18**

ECON 3200 ECONOMIC THEORY: MICRO (^)

ECON 3220 ECONOMIC THEORY: MACRO (^)

ECON 3300 INTRODUCTION TO ECONOMETRICS (^)

ECON 3XXX OR ECON 4XXX

ECON 4XXX

ECON 4XXX

**Optional Focus Areas**

Focus Areas are a purposeful collection of economics courses designed to ready students for a particular career. Focus Areas are optional, and do not appear on the transcript, but the department highly recommends students consider them when selecting their additional Economics credits. A Focus Area is completed when students successfully finish nine (9) credits from a given Focus Area.

**Modern Business**

ECON 4210 INDUSTRIAL ORGANIZATION (^)

ECON 4240 LABOR ECONOMICS (^)

ECON 4320 NATURAL RESOURCE ECONOMICS (^)

ECON 4330 ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY

ECON 4350 BUSINESS INTELLIGENCE AND REPORTING (^)

ECON 4510 ECONOMIC INTERNSHIP (^)

ECON 4570 ECONOMIC CONDITIONS ANALYSIS (^)

ECON 4610 INTERNATIONAL TRADE (^)

ECON 4660 INTERNATIONAL ECONOMIC DEVELOPMENT (^)

ECON 4850 ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (^)

**International and Regional Policy**

ECON 3320 ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^)

ECON 3600 INTRODUCTION TO INTERNATIONAL ECONOMICS (^)

ECON 4320 NATURAL RESOURCE ECONOMICS (^)

ECON 4350 BUSINESS INTELLIGENCE AND REPORTING (^)

ECON 4610 INTERNATIONAL TRADE (^)

ECON 4660 INTERNATIONAL ECONOMIC DEVELOPMENT (^)

ECON 4850 ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (^)

**Analysis and Applied Skills**

ECON 3310 SQL, DATABASES, AND DATA CLEANING FOR DATA SCIENTISTS (^)

ECON 4210 INDUSTRIAL ORGANIZATION (^)

ECON 4300 QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS (^)

ECON 4350 BUSINESS INTELLIGENCE AND REPORTING (^)

ECON 4510 ECONOMIC INTERNSHIP (^)

ECON 4570 ECONOMIC CONDITIONS ANALYSIS (^)

**Development, Climate, and Sustainability**

ECON 3320 ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (^)

|  |   |  |
|--|---|--|
| ECON 3600  | INTRODUCTION TO INTERNATIONAL ECONOMICS (^)     |  |
| ECON 4320  | NATURAL RESOURCE ECONOMICS (^)                  |  |
| ECON 4660  | INTERNATIONAL ECONOMIC DEVELOPMENT (^)          |  |
| ECON 4850  | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (^) |  |
| <b>ELECTIVES</b>   |   |  |
| Elective hours as required to reach a total of 120 hours |   |  |

## Secondary Concentration in Economics Requirements

| Code                                       | Title                                | Credits |
|--|--------------------------------------|---------|
| <b>15 Hours Required</b>                   |                                      |         |
| <b>All of the Following - 12 Hours</b>     |                                      |         |
| ECON 2200                                  | PRINCIPLES OF ECONOMICS (MICRO) (**) |         |
| ECON 2220                                  | PRINCIPLES OF ECONOMICS (MACRO) (**) |         |
| ECON 3XXX OR ECON 4XXX                     |                                      |         |
| ECON 3XXX OR ECON 4XXX                     |                                      |         |
| <b>Select 1 of the Following - 3 Hours</b> |                                      |         |
| ECON 3200                                  | ECONOMIC THEORY: MICRO               |         |
| ECON 3220                                  | ECONOMIC THEORY: MACRO               |         |

Any course that may be used for an economics concentration may also be used for the secondary concentration in economics, provided that at least one of the courses is ECON 3200 (<https://catalog.unomaha.edu/search/?P=ECON%203200>) or ECON 3220 (<https://catalog.unomaha.edu/search/?P=ECON%203220>). A grade of C (2.00) or better is required in each course applied toward the secondary concentration.

## BSBA Degree with Economics Concentration Four Year Plan

### Freshman

| Fall                                 |  | Credits   |
|--------------------------------------|--|-----------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3         |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4         |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3         |
| General Education Course or Elective |  | 3         |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1         |
| <b>Credits</b>                       |  | <b>14</b> |
| Spring                               |  |           |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                        | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS              | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                                  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

### Sophomore

| Fall      |                            |   |
|-----------|----------------------------|---|
| MKT 3200  | BUSINESS COMMUNICATIONS    | 3 |
| ACCT 2010 | PRINCIPLES OF ACCOUNTING I | 3 |

|                                      |                                 |   |
|--------------------------------------|---------------------------------|---|
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3 |
| General Education Course or Elective |                                 | 4 |
| General Education Course or Elective |                                 | 3 |

**Credits 16**

### Spring

|                                      |                                   |   |
|--------------------------------------|-----------------------------------|---|
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II       | 3 |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS | 3 |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS | 3 |
| ECON 3200                            | ECONOMIC THEORY: MICRO            | 3 |
| General Education Course or Elective |                                   | 3 |

**Credits 15**

### Junior

#### Fall

|                                      |                                    |   |
|--------------------------------------|------------------------------------|---|
| MKT 3310                             | PRINCIPLES OF MARKETING            | 3 |
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT | 3 |
| ECON 3220                            | ECONOMIC THEORY: MACRO             | 3 |
| Second Speech <sup>3</sup>           |                                    | 3 |
| General Education Course or Elective |                                    | 3 |

**Credits 15**

#### Spring

|                         |                                |   |
|-------------------------|--------------------------------|---|
| ECON 3300               | INTRODUCTION TO ECONOMETRICS   | 3 |
| LAWS 3930               | BUSINESS LAW FUNDAMENTALS      | 3 |
| MGMT 3100               | MANAGEMENT INFORMATION SYSTEMS | 3 |
| International Dimension |                                | 3 |
| Elective                |                                | 3 |

**Credits 15**

### Senior

#### Fall

|                            |   |   |
|----------------------------|---|---|
| SCMT 3500                  | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3 |
| ECON Elective <sup>4</sup> |   | 3 |
| International Dimension    |   | 3 |
| Elective                   |   | 3 |
| Elective                   |   | 3 |

**Credits 15**

#### Spring

|                                 |                                 |   |
|---------------------------------|---------------------------------|---|
| MGMT 4480                       | CORPORATE AND BUSINESS STRATEGY | 3 |
| ECON 4XXX Elective <sup>5</sup> |                                 | 3 |
| ECON 4XXX Elective <sup>5</sup> |                                 | 3 |
| Elective                        |                                 | 3 |
| Elective                        |                                 | 3 |

**Credits 15**

**Total Credits 120**

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>4</sup> This Economics Concentration Elective must be a 3000- or 4000-level course within the Economics department.

<sup>5</sup> This Economics Concentration Elective must be a 3000- or 4000-level course within the Economics department.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual

sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### **Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### **GPA Requirements:**

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

#### **Graduation Requirements:**

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## **Finance, Banking and Real Estate**

### **Contact**

Chair, Department of Finance, Banking and Real Estate  
402.554.2418

**Website** (<http://www.unomaha.edu/college-of-business-administration/finance-banking-real-estate/>)

### **Degrees Offered**

- Business Administration, Bachelor of Science (<https://catalog.unomaha.edu/undergraduate/college-business-administration/bs-business-administration/>)

### **Concentrations Offered**

- Banking and Financial Markets Concentration (p. 397)
- Business Finance Concentration (p. 402)
- Certified Financial Planning Concentration (p. 404)
- Investment Science and Portfolio Management Concentration (p. 406)
- Real Estate and Land Use Economics Concentration (p. 409)

### **Secondary Concentrations Offered**

- Secondary Concentration in Banking and Financial Markets (p. 397)
- Secondary Concentration in Business Finance (p. 402)

- Secondary Concentration in Investment Science and Portfolio Management (p. 406)
- Secondary Concentration in Real Estate and Land Use Economics (p. 409)

Note: A careful structuring of course work will allow students to obtain a triple concentration in Investment Science and Portfolio Management, Business Finance, and Banking and Financial Markets, without extra courses. In addition, students may earn a concentration in Real Estate and Land Use Economics and a corresponding Finance concentration. Students must complete FNBK 3300 and FNBK 3300 with a C+ or above in order to specialize in any Finance and Banking concentration or secondary concentration.

## **Certificates Offered**

UNO Real Estate Certificate (p. 411)

Finance, Banking, and Real Estate

- Appraiser
- Bank Operations Manager
- Commercial Banking Officer
- Commercial or Residential Broker
- Corporate Financial Officer
- Corporate Lawyer
- Financial Advisor
- Insurance Management
- Investment Analyst
- Mortgage Officer
- Portfolio Manager
- Real Estate Agent
- Retail Banking Officer
- Risk Management Specialist
- Stockbroker
- Underwriting Specialist

## **Banking and Financial Markets Concentration**

The objective of the Banking and Financial Markets concentration is to provide additional study in the areas of financial management of commercial banks including the organization, operation, financing and functions of banks and certain related financial institutions. This program is specifically designed for those students interested in pursuing careers in banking, bank regulatory agencies, or in related financial institutions, such as credit unions, sales and consumer finance companies, and government agencies.

The completion of specified courses in business finance, banking, and investment science and portfolio management may be applied toward concentration requirements in all three areas.

Banking and Financial Markets concentration and secondary concentration students are required to earn a "C+" or better in FNBK 3250 and FNBK 3300.

## BSBA Degree with Banking and Financial Markets Concentration Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                      |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                  |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                      |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |  |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the following:</b>  |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                               |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)           |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                 |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| <b>All of the Following</b>   |  | <b>45</b> |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |           |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |           |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                             |           |

|   |  |           |
|---|--|-----------|
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                          |           |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                              |           |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                              |           |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                    |           |
| LAWS 3930   | BUSINESS LAW FUNDAMENTALS (^)                            |           |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                   |           |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                       |           |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)              |           |
| MGMT 4480   | CORPORATE AND BUSINESS STRATEGY (^)                      |           |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |           |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |           |
| *Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit. |  |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                            |           |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |           |
| CMST 3140   | CONTEMPORARY PRESENTATIONS (^)                           |           |
| CMST 3150   | INTERCOLLEGIATE FORENSICS I                              |           |
| CMST 3160   | INTERCOLLEGIATE FORENSICS II                             |           |
| MKT 3100  | PROFESSIONAL SELLING (^)                                 |           |
| <b>Banking and Financial Markets Concentration Courses</b>  |  |           |
| <b>All of the Following</b>   |  | <b>15</b> |
| FNBK 3000   | FINANCIAL REPORTING AND ANALYSIS (^)                     |           |
| FNBK 3300   | INTERMEDIATE FINANCIAL MANAGEMENT (^)                    |           |
| FNBK 3500   | FINANCIAL MARKETS (^)                                    |           |
| FNBK 3650   | COMMERCIAL BANK MANAGEMENT (^)                           |           |
| FNBK 3700   | INTERNATIONAL FINANCIAL MANAGEMENT (^)                   |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| FNBK 3330   | ENTREPRENEURIAL FINANCE (^)                              |           |
| FNBK 3400   | INVESTMENT PRINCIPLES AND PRACTICES (^)                  |           |
| FNBK 4300   | FUNDAMENTALS OF FINANCIAL PLANNING                       |           |
| FNBK 4150   | ADVANCED FINANCIAL MANAGEMENT (^)                        |           |
| FNBK 4470   | BEHAVIORAL FINANCE & INVESTING (^)                       |           |
| FNBK 4510   | FINANCE AND BANKING INTERNSHIP (^)                       |           |
| FNBK 4590   | INSURANCE PLANNING (^)                                   |           |
| FNBK 4600   | FINANCIAL RISK MANAGEMENT (^)                            |           |
| RELU 4390   | REAL ESTATE INVESTMENTS (^)                              |           |
| <b>ELECTIVES</b>  |  |           |
| Elective hours as required to reach a total of 120 hours  |  |           |



## Secondary Concentration in Banking and Financial Markets Requirements

| Code                        | Title                             | Credits   |
|-----------------------------|-----------------------------------|-----------|
| <b>All of the Following</b> |                                   | <b>12</b> |
| FNBK 3300                   | INTERMEDIATE FINANCIAL MANAGEMENT |           |
| FNBK 3650                   | COMMERCIAL BANK MANAGEMENT        |           |
| FNBK 3XXX OR FNBK 4XXX      |                                   |           |
| FNBK 3XXX OR FNBK 4XXX      |                                   |           |

## BSBA Degree with Banking and Financial Markets Concentration Four Year Plan

### Freshman

| <b>Fall</b>                          |  | <b>Credits</b> |
|--------------------------------------|--|----------------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3              |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4              |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3              |
| General Education Course or Elective |  | 3              |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1              |
| <b>Credits</b>                       |  | <b>14</b>      |

### Spring

|                                      |   |           |
|--------------------------------------|---|-----------|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

### Sophomore

| <b>Fall</b>                          |                                 |           |
|--------------------------------------|---------------------------------|-----------|
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3         |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3         |
| General Education Course or Elective |                                 | 4         |
| General Education Course or Elective |                                 | 3         |
| <b>Credits</b>                       |                                 | <b>16</b> |

### Spring

|                                      |                                   |           |
|--------------------------------------|-----------------------------------|-----------|
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II       | 3         |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS | 3         |
| MKT 3310                             | PRINCIPLES OF MARKETING           | 3         |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS | 3         |
| General Education Course or Elective |                                   | 3         |
| <b>Credits</b>                       |                                   | <b>15</b> |

### Junior

| <b>Fall</b>                          |   |   |
|--------------------------------------|---|---|
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT <sup>3</sup> | 3 |
| LAWS 3930                            | BUSINESS LAW FUNDAMENTALS                       | 3 |
| Second Speech <sup>4</sup>           |   | 3 |
| General Education Course or Elective |   | 3 |

|                |           |
|----------------|-----------|
| Elective       | 3         |
| <b>Credits</b> | <b>15</b> |

### Spring

|                         |  |   |
|-------------------------|--|---|
| MGMT 3100               | MANAGEMENT INFORMATION SYSTEMS                 | 3 |
| FNBK 3000               | FINANCIAL REPORTING AND ANALYSIS               | 3 |
| FNBK 3300               | INTERMEDIATE FINANCIAL MANAGEMENT <sup>5</sup> | 3 |
| International Dimension |  | 3 |
| Elective                |  | 3 |

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

### Senior

#### Fall

|                         |   |   |
|-------------------------|---|---|
| FNBK 3500               | FINANCIAL MARKETS                       | 3 |
| FNBK 3700               | INTERNATIONAL FINANCIAL MANAGEMENT      | 3 |
| SCMT 3500               | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3 |
| International Dimension |   | 3 |
| Elective                |   | 3 |

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

#### Spring

|                            |                                 |   |
|----------------------------|---------------------------------|---|
| MGMT 4480                  | CORPORATE AND BUSINESS STRATEGY | 3 |
| FNBK 3650                  | COMMERCIAL BANK MANAGEMENT      | 3 |
| FNBK Elective <sup>6</sup> |                                 | 3 |
| Elective                   |                                 | 3 |
| Elective                   |                                 | 3 |

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>15</b> |
|----------------|-----------|

|                      |            |
|----------------------|------------|
| <b>Total Credits</b> | <b>120</b> |
|----------------------|------------|

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> Students with a Banking & Financial Markets concentration must earn a grade of "C+" or better in FNBK 3250.

<sup>4</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>5</sup> Students with a Banking & Financial Markets concentration must earn a grade of "C+" or better in FNBK 3300.

<sup>6</sup> See DegreeWorks or Stellic for approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

**Graduation Requirements:**

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Business Analytics Concentration

Because domain knowledge is critical to business analytics, the BSBA Business Analytics concentration is required to be completed together with another BSBA concentration within the College of Business Administration.

## BSBA Degree with Business Analytics Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   |           |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |

**MAJOR REQUIREMENTS - 87 Hours Required**

Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following:**

|           |  |
|-----------|--|
| ENGL 1150 | ENGLISH COMPOSITION I (** ^)                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^) |
| CMST 1110 | PUBLIC SPEAKING FUNDS (**)                       |

**Select 1 of the Following** **3**

|           |  |
|-----------|--|
| MATH 1370 | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |
| MATH 1930 | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |

**All of the Following** **45**

|           |   |
|-----------|---|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO) (** ^)      |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) (** ^)      |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS (^)       |
| ACCT 2010 | PRINCIPLES OF ACCOUNTING I (^)              |
| ACCT 2020 | PRINCIPLES OF ACCOUNTING II (^)             |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                 |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                 |
| MGMT 3490 | MANAGING PEOPLE AND ORGANIZATIONS (^)       |
| LAWS 3930 | BUSINESS LAW FUNDAMENTALS (^)               |
| FNBK 3250 | PRINCIPLES OF FINANCIAL MANAGEMENT (^)      |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS (^)          |
| SCMT 3500 | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^) |
| MGMT 4480 | CORPORATE AND BUSINESS STRATEGY (^)         |

\*INTERNATIONAL DIMENSION - 3 hrs

\*INTERNATIONAL DIMENSION - 3 hrs

\*Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit.

**Select 1 of the Following** **3**

|           |  |
|-----------|--|
| CMST 2120 | ARGUMENTATION AND DEBATE (**)                            |
| CMST 3130 | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |
| CMST 3140 | CONTEMPORARY PRESENTATIONS (^)                           |
| CMST 3150 | INTERCOLLEGIATE FORENSICS I (^)                          |
| CMST 3160 | INTERCOLLEGIATE FORENSICS II (^)                         |
| MKT 3100  | PROFESSIONAL SELLING (^)                                 |

**Business Analytics Concentration Courses****All of the Following** **9**

|           |   |
|-----------|---|
| ECON 3310 | SQL, DATABASES, AND DATA CLEANING FOR DATA SCIENTISTS (^) |
| ECON 3300 | INTRODUCTION TO ECONOMETRICS (^)                          |
| ECON 4350 | BUSINESS INTELLIGENCE AND REPORTING (^)                   |

**Select 3 of the Following** **9**

|           |  |
|-----------|--|
| ACCT 3050 | INTERMEDIATE MANAGERIAL ACCOUNTING (^) |
|-----------|--|

|                                      |   |           |
|--------------------------------------|---|-----------|
| ACCT 4060                            | ADVANCED MANAGERIAL ACCOUNTING (^)                      |           |
| ACCT 4080                            | PRINCIPLES OF AUDITING (^)                              |           |
| ACCT 4020                            | ANALYTICS FOR ACCOUNTING (^)                            |           |
| ECON 4300                            | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS (^) |           |
| ECON 4510                            | ECONOMIC INTERNSHIP (^)                                 |           |
| ECON 4570                            | ECONOMIC CONDITIONS ANALYSIS (^)                        |           |
| FNBK 3400                            | INVESTMENT PRINCIPLES AND PRACTICES (^)                 |           |
| FNBK 4150                            | ADVANCED FINANCIAL MANAGEMENT (^)                       |           |
| MKT 4340                             | MARKETING RESEARCH (^)                                  |           |
| MKT 4370                             | MARKETING ANALYTICS (^)                                 |           |
| SCMT 4370                            | SUPPLY CHAIN ANALYTICS (^)                              |           |
| MGMT 4060                            | HEALTHCARE ANALYTICS FOR BUSINESS (^)                   |           |
| <b>Required Second Concentration</b> |   | <b>18</b> |
| <b>ELECTIVES</b>                     |   |           |

Elective hours as required to reach a total of 120 hours

## Secondary Concentration in Business Analytics Requirements

| Code                                       | Title   | Credits |
|--|---|---------|
| <b>12 Hours Required</b>                   |   |         |
| <b>All of the Following - 9 Hours</b>      |   |         |
| ECON 3310                                  | SQL, DATABASES, AND DATA CLEANING FOR DATA SCIENTISTS |         |
| ECON 3300                                  | INTRODUCTION TO ECONOMETRICS                          |         |
| ECON 4350                                  | BUSINESS INTELLIGENCE AND REPORTING                   |         |
| <b>Select 1 of the Following - 3 Hours</b> |   |         |
| ACCT 3050                                  | INTERMEDIATE MANAGERIAL ACCOUNTING                    |         |
| ACCT 4060                                  | ADVANCED MANAGERIAL ACCOUNTING                        |         |
| ACCT 4080                                  | PRINCIPLES OF AUDITING                                |         |
| ACCT 4020                                  | ANALYTICS FOR ACCOUNTING                              |         |
| ECON 4300                                  | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS   |         |
| MGMT 4060                                  | HEALTHCARE ANALYTICS FOR BUSINESS                     |         |
| ECON 4510                                  | ECONOMIC INTERNSHIP                                   |         |
| ECON 4570                                  | ECONOMIC CONDITIONS ANALYSIS                          |         |
| FNBK 3400                                  | INVESTMENT PRINCIPLES AND PRACTICES                   |         |
| FNBK 4150                                  | ADVANCED FINANCIAL MANAGEMENT                         |         |
| MKT 4340                                   | MARKETING RESEARCH                                    |         |
| MKT 4370                                   | MARKETING ANALYTICS                                   |         |
| SCMT 4370                                  | SUPPLY CHAIN ANALYTICS                                |         |

## BSBA Degree with Business Analytics Concentration Four Year Plan

An additional College of Business Concentration must be paired with Business Analytics

| <b>Freshman</b>                      |  | <b>Credits</b> |
|--------------------------------------|--|----------------|
| <b>Fall</b>                          |  |                |
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3              |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4              |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3              |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1              |
| General Education Course or Elective |  | 3              |
| General Education Course or Elective |  | 1-3            |
| <b>Credits</b>                       |  | <b>15-17</b>   |

|                                      |   |           |
|--------------------------------------|---|-----------|
| <b>Spring</b>                        |   |           |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

|                                      |                                 |           |
|--------------------------------------|---------------------------------|-----------|
| <b>Sophomore</b>                     |                                 |           |
| <b>Fall</b>                          |                                 |           |
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3         |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3         |
| General Education Course or Elective |                                 | 3         |
| General Education Course or Elective |                                 | 3         |
| <b>Credits</b>                       |                                 | <b>15</b> |

|                                      |                                   |           |
|--------------------------------------|-----------------------------------|-----------|
| <b>Spring</b>                        |                                   |           |
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II       | 3         |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS | 3         |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS | 3         |
| MKT 3310                             | PRINCIPLES OF MARKETING           | 3         |
| General Education Course or Elective |                                   | 3         |
| <b>Credits</b>                       |                                   | <b>15</b> |

|  |                                     |           |
|--|-------------------------------------|-----------|
| <b>Junior</b>                            |                                     |           |
| <b>Fall</b>                              |                                     |           |
| FNBK 3250                                | PRINCIPLES OF FINANCIAL MANAGEMENT  | 3         |
| LAWS 3930                                | BUSINESS LAW FUNDAMENTALS           | 3         |
| ECON 4350                                | BUSINESS INTELLIGENCE AND REPORTING | 3         |
| Business Analytics Elective <sup>3</sup> |                                     | 3         |
| Second Concentration Course              |                                     | 3         |
| <b>Credits</b>                           |                                     | <b>15</b> |

|                             |   |           |
|-----------------------------|---|-----------|
| <b>Spring</b>               |   |           |
| MGMT 3100                   | MANAGEMENT INFORMATION SYSTEMS                        | 3         |
| ECON 3300                   | INTRODUCTION TO ECONOMETRICS                          | 3         |
| ECON 3310                   | SQL, DATABASES, AND DATA CLEANING FOR DATA SCIENTISTS | 3         |
| International Dimension     |   | 3         |
| Second Concentration Course |   | 3         |
| <b>Credits</b>              |   | <b>15</b> |

|  |   |   |
|--|---|---|
| <b>Senior</b>                            |   |   |
| <b>Fall</b>                              |   |   |
| SCMT 3500                                | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3 |
| Business Analytics Elective <sup>3</sup> |   | 3 |

|   |                |
|---|----------------|
| Second Speech <sup>4</sup>                | 3              |
| Second Concentration Course               | 3              |
| Second Concentration Course               | 3              |
| <b>Credits</b>                            | <b>15</b>      |
| <b>Spring</b>                             |                |
| MGMT 4480 CORPORATE AND BUSINESS STRATEGY | 3              |
| Business Analytics Elective <sup>3</sup>  | 3              |
| Second Concentration Course               | 3              |
| Second Concentration Course               | 3              |
| International Dimension                   | 3              |
| <b>Credits</b>                            | <b>15</b>      |
| <b>Total Credits</b>                      | <b>120-122</b> |

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> See DegreeWorks or Stellic for approved elective options.

<sup>4</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

Placement Exams: For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

#### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Business Finance Concentration

The objective of the business finance concentration is to prepare students for careers in such areas as financial management, capital budgeting, and

international financial management. The focus is on the functions of finance in the firm, cash management, sources of financing, the financial system and strategic capital budgeting.

The completion of specified courses in business finance, banking, and investment science and portfolio management may be applied toward concentration requirements in all three areas.

Business Finance concentration and secondary concentration students are required to earn a "C+" or better in FNBK 3250 and FNBK 3300.

## BSBA Degree with Business Finance Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| <b>Social Science – 3 hrs.</b>  |   |           |
| <b>Humanities – 3 hrs.</b>  |   |           |
| <b>Natural &amp; Physical Science (must complete a lab) – 4 hrs.</b>  |   |           |
| <b>Arts – 3 hrs.</b>  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| <b>Cultural Knowledge – 3 hrs.</b>  |   |           |
| <b>Civic Knowledge and Engagement – 3 hrs.</b>  |   |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |   |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                            |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)        |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                              |           |
| <b>Select 1 of the Following</b>  |   | <b>3</b>  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^) |           |

|   |  |           |
|---|--|-----------|
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| <b>All of the Following</b>   |  | <b>45</b> |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |           |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |           |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                             |           |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                            |           |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |           |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                |           |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                      |           |
| LAWS 3930   | BUSINESS LAW FUNDAMENTALS (^)                              |           |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                     |           |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |           |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)                |           |
| MGMT 4480   | CORPORATE AND BUSINESS STRATEGY (^)                        |           |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |           |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |           |
| *Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit. |  |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                              |           |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)   |           |
| CMST 3140   | CONTEMPORARY PRESENTATIONS (^)                             |           |
| CMST 3150   | INTERCOLLEGIATE FORENSICS I (^)                            |           |
| CMST 3160   | INTERCOLLEGIATE FORENSICS II (^)                           |           |
| MKT 3100  | PROFESSIONAL SELLING (^)                                   |           |
| <b>Business Finance Concentration Courses</b>   |  |           |
| <b>All of the Following</b>   |  | <b>15</b> |
| FNBK 3000   | FINANCIAL REPORTING AND ANALYSIS (^)                       |           |
| FNBK 3300   | INTERMEDIATE FINANCIAL MANAGEMENT (^)                      |           |
| FNBK 3500   | FINANCIAL MARKETS (^)                                      |           |
| FNBK 3700   | INTERNATIONAL FINANCIAL MANAGEMENT (^)                     |           |
| FNBK 4150   | ADVANCED FINANCIAL MANAGEMENT (^)                          |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| FNBK 3330   | ENTREPRENEURIAL FINANCE (^)                                |           |
| FNBK 3400   | INVESTMENT PRINCIPLES AND PRACTICES (^)                    |           |
| FNBK 3650   | COMMERCIAL BANK MANAGEMENT (^)                             |           |
| FNBK 4300   | FUNDAMENTALS OF FINANCIAL PLANNING                         |           |
| FNBK 4470   | BEHAVIORAL FINANCE & INVESTING (^)                         |           |
| FNBK 4500   | SPECIAL PROBLEMS IN FINANCE AND BANKING (^)                |           |
| FNBK 4510   | FINANCE AND BANKING INTERNSHIP (^)                         |           |
| FNBK 4590   | INSURANCE PLANNING (^)                                     |           |

|  |                               |
|--|-------------------------------|
| FNBK 4600  | FINANCIAL RISK MANAGEMENT (^) |
| RELU 4390  | REAL ESTATE INVESTMENTS (^)   |
| <b>ELECTIVES</b>   |                               |
| Elective hours as required to reach a total of 120 hours |                               |

## Secondary Concentration in Business Finance Requirements

| Code                        | Title                             | Credits   |
|-----------------------------|-----------------------------------|-----------|
| <b>All of the Following</b> |                                   | <b>12</b> |
| FNBK 3300                   | INTERMEDIATE FINANCIAL MANAGEMENT |           |
| FNBK 4150                   | ADVANCED FINANCIAL MANAGEMENT     |           |
| FNBK 3XXX OR FNBK 4XXX      |                                   |           |
| FNBK 3XXX OR FNBK 4XXX      |                                   |           |

## BSBA Degree with Business Finance Concentration Four Year Plan

### Freshman

| Fall                                 |  | Credits   |
|--------------------------------------|--|-----------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3         |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4         |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3         |
| General Education Course or Elective |  | 3         |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1         |
| <b>Credits</b>                       |  | <b>14</b> |

### Spring

|                                      |   |           |
|--------------------------------------|---|-----------|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

### Sophomore

#### Fall

|                                      |                                 |           |
|--------------------------------------|---------------------------------|-----------|
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3         |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3         |
| General Education Course or Elective |                                 | 4         |
| General Education Course or Elective |                                 | 3         |
| <b>Credits</b>                       |                                 | <b>16</b> |

#### Spring

|                                      |                                   |           |
|--------------------------------------|-----------------------------------|-----------|
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II       | 3         |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS | 3         |
| MKT 3310                             | PRINCIPLES OF MARKETING           | 3         |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS | 3         |
| General Education Course or Elective |                                   | 3         |
| <b>Credits</b>                       |                                   | <b>15</b> |



**Junior****Fall**

|                                      |   |   |
|--------------------------------------|---|---|
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT <sup>3</sup> | 3 |
| LAWS 3930                            | BUSINESS LAW FUNDAMENTALS                       | 3 |
| Second Speech <sup>4</sup>           |   | 3 |
| General Education Course or Elective |   | 3 |
| Elective                             |   | 3 |

**Credits** **15**

**Spring**

|                         |  |   |
|-------------------------|--|---|
| FNBK 3000               | FINANCIAL REPORTING AND ANALYSIS               | 3 |
| FNBK 3300               | INTERMEDIATE FINANCIAL MANAGEMENT <sup>5</sup> | 3 |
| MGMT 3100               | MANAGEMENT INFORMATION SYSTEMS                 | 3 |
| International Dimension |  | 3 |
| Elective                |  | 3 |

**Credits** **15**

**Senior****Fall**

|                         |   |   |
|-------------------------|---|---|
| FNBK 3500               | FINANCIAL MARKETS                       | 3 |
| FNBK 3700               | INTERNATIONAL FINANCIAL MANAGEMENT      | 3 |
| SCMT 3500               | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3 |
| International Dimension |   | 3 |
| Elective                |   | 3 |

**Credits** **15**

**Spring**

|                            |                                 |   |
|----------------------------|---------------------------------|---|
| MGMT 4480                  | CORPORATE AND BUSINESS STRATEGY | 3 |
| FNBK 4150                  | ADVANCED FINANCIAL MANAGEMENT   | 3 |
| FNBK Elective <sup>6</sup> |                                 | 3 |
| Elective                   |                                 | 3 |
| Elective                   |                                 | 3 |

**Credits** **15**

**Total Credits** **120**

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> Students with a Business Finance concentration must earn a grade of "C +" or better in FNBK 3250.

<sup>4</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>5</sup> Students with a Business Finance concentration must earn a grade of "C +" or better in FNBK 3300.

<sup>6</sup> See DegreeWorks or Stellic for approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for

the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

**Graduation Requirements:**

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Certified Financial Planning Concentration

### BSBA Degree - Certified Financial Planning Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 69 Hours Required**

Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following:**

ENGL 1150 ENGLISH COMPOSITION I (\*\* ^)

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY (\*\* ^)

CMST 1110 PUBLIC SPEAKING FUNDS (\*\*)

**Select 1 of the Following 3**

MATH 1370 APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)

MATH 1930 CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)

**All of the following 45**

ECON 2200 PRINCIPLES OF ECONOMICS (MICRO) (\*\* ^)

ECON 2220 PRINCIPLES OF ECONOMICS (MACRO) (\*\* ^)

BSAD 2130 PRINCIPLES OF BUSINESS STATISTICS (^)

ACCT 2010 PRINCIPLES OF ACCOUNTING I (^)

ACCT 2020 PRINCIPLES OF ACCOUNTING II (^)

MKT 3200 BUSINESS COMMUNICATIONS (\*\* ^)

MKT 3310 PRINCIPLES OF MARKETING (^)

MGMT 3490 MANAGING PEOPLE AND ORGANIZATIONS (^)

LAWS 3930 BUSINESS LAW FUNDAMENTALS (^)

FNBK 3250 PRINCIPLES OF FINANCIAL MANAGEMENT (^)

MGMT 3100 MANAGEMENT INFORMATION SYSTEMS (^)

SCMT 3500 MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)

MGMT 4480 CORPORATE AND BUSINESS STRATEGY (^)

\*INTERNATIONAL DIMENSION - 3 hrs

\*INTERNATIONAL DIMENSION - 3 hrs

\*Students must complete at least six hours of course work beyond the general education diversity requirement with a global perspective (i.e., history, political science, literature or geography of foreign countries, foreign languages, international business, etc.). Global courses include all university general education global diversity courses listed on the General Education website, plus the international business courses shown on the student's DegreeWorks website

**Select 1 of the Following 3**

CMST 2120 ARGUMENTATION AND DEBATE (\*\*)

CMST 3130 SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)

CMST 3140 CONTEMPORARY PRESENTATIONS (^)

CMST 3150 INTERCOLLEGIATE FORENSICS I (^)

CMST 3160 INTERCOLLEGIATE FORENSICS II (^)

MKT 3100 PROFESSIONAL SELLING (^)

**Certified Financial Planning Concentration Courses****Take all five of the following courses 15**

FNBK 4300 FUNDAMENTALS OF FINANCIAL PLANNING

FNBK 4320 RETIREMENT PLANNING &amp; EMPLOYEE BENEFITS

FNBK 4330 ESTATES AND INCOME TAX

FNBK 4340 APPLICATIONS IN PERSONAL FINANCIAL PLANNING (^)

FNBK 4590 INSURANCE PLANNING

**Select one of the following two courses 3**

FNBK 3400 INVESTMENT PRINCIPLES AND PRACTICES (^)

FNBK 4310 SECURITY ANALYSIS &amp; INVESTING

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**Freshman****Fall****Credits**ENGL 1150 ENGLISH COMPOSITION I <sup>1</sup> 3MATH 1300 COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup> 4

CMST 1110 PUBLIC SPEAKING FUNDS 3

General Education Course or Elective 3

BSAD 1100 BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) 1

**Credits 14****Spring**

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY 3

MATH 1370 APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS 3

ECON 2200 PRINCIPLES OF ECONOMICS (MICRO) 3

General Education Course or Elective 3

General Education Course or Elective 3

**Credits 15****Sophomore****Fall**

MKT 3200 BUSINESS COMMUNICATIONS 3

ACCT 2010 PRINCIPLES OF ACCOUNTING I 3

ECON 2220 PRINCIPLES OF ECONOMICS (MACRO) 3

General Education Course or Elective 3

General Education Course or Elective 4

**Credits 16****Spring**

ACCT 2020 PRINCIPLES OF ACCOUNTING II 3

BSAD 2130 PRINCIPLES OF BUSINESS STATISTICS 3

MKT 3310 PRINCIPLES OF MARKETING 3

MGMT 3490 MANAGING PEOPLE AND ORGANIZATIONS 3

General Education Course or Elective 3

**Credits 15****Junior****Fall**FNBK 3250 PRINCIPLES OF FINANCIAL MANAGEMENT <sup>3</sup> 3

LAWS 3930 BUSINESS LAW FUNDAMENTALS 3

|                                      |   |            |
|--------------------------------------|---|------------|
| Second Speech <sup>4</sup>           |   | 3          |
| General Education Course or Elective |   | 3          |
| Elective                             |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| FNBK 4300                            | FUNDAMENTALS OF FINANCIAL PLANNING                                      | 3          |
| FNBK 4320                            | RETIREMENT PLANNING & EMPLOYEE BENEFITS                                 | 3          |
| MGMT 3100                            | MANAGEMENT INFORMATION SYSTEMS  | 3          |
| International Dimension              |   | 3          |
| Elective                             |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Senior</b>                        |   |            |
| <b>Fall</b>                          |   |            |
| FNBK 4590                            | INSURANCE PLANNING  | 3          |
| FNBK 4330                            | ESTATES AND INCOME TAX  | 3          |
| SCMT 3500                            | MANAGING OPERATIONS IN THE SUPPLY CHAIN                                 | 3          |
| International Dimension              |   | 3          |
| Elective                             |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| MGMT 4480                            | CORPORATE AND BUSINESS STRATEGY   | 3          |
| FNBK 4340                            | APPLICATIONS IN PERSONAL FINANCIAL PLANNING                             | 3          |
| FNBK 4310<br>or FNBK 3400            | SECURITY ANALYSIS & INVESTING<br>or INVESTMENT PRINCIPLES AND PRACTICES | 3          |
| Elective                             |   | 3          |
| Elective                             |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Total Credits</b>                 |   | <b>120</b> |

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> Students with a Certified Financial Planning concentration must earn a grade of "C+" or better in FNBK 3250.

<sup>4</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

General Education courses (Humanities, Social Science & Natural Science) must be from at least two different disciplines <https://www.unomaha.edu/general-education/overview/index.php>. Placement Exams: For For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at [athttps://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php](https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php)

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

#### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of C (2.00) or above.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Investment Science and Portfolio Management Concentration

The investment science and portfolio management concentration provides theoretical and practical application of security analysis, asset pricing, and dynamic portfolio management for students interested in the investment management field. Students will have the opportunity to apply theoretical models discussed in class by managing funds in the student managed investment club. Students are encouraged to actively participate in the club early in their academic career.

The completion of specified courses in business finance, banking, and investment science and portfolio management may be applied toward concentration requirements in all three areas.

Investment Science and Portfolio Management concentration and secondary concentration students are required to earn a "C+" or better in FNBK 3250 and FNBK 3300.

## BSBA Degree with Investment Science and Portfolio Management Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b> |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 69 Hours Required**

Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following:**

ENGL 1150 ENGLISH COMPOSITION I (\*\* ^)

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY (\*\* ^)

CMST 1110 PUBLIC SPEAKING FUNDS (\*\*)

**Select 1 of the Following 3**

MATH 1370 APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)

MATH 1930 CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)

**All of the Following 45**

ECON 2200 PRINCIPLES OF ECONOMICS (MICRO) (\*\* ^)

ECON 2220 PRINCIPLES OF ECONOMICS (MACRO) (\*\* ^)

BSAD 2130 PRINCIPLES OF BUSINESS STATISTICS (^)

ACCT 2010 PRINCIPLES OF ACCOUNTING I (^)

ACCT 2020 PRINCIPLES OF ACCOUNTING II (^)

MKT 3200 BUSINESS COMMUNICATIONS (^)

MKT 3310 PRINCIPLES OF MARKETING (^)

MGMT 3490 MANAGING PEOPLE AND ORGANIZATIONS (^)

LAWS 3930 BUSINESS LAW FUNDAMENTALS (^)

FNBK 3250 PRINCIPLES OF FINANCIAL MANAGEMENT (^)

MGMT 3100 MANAGEMENT INFORMATION SYSTEMS (^)

SCMT 3500 MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)

MGMT 4480 CORPORATE AND BUSINESS STRATEGY (^)

\*INTERNATIONAL DIMENSION - 3 hrs

\*INTERNATIONAL DIMENSION - 3 hrs

\*Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit.

**Select 1 of the Following 3**

CMST 2120 ARGUMENTATION AND DEBATE (\*\*)

CMST 3130 SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)

CMST 3140 CONTEMPORARY PRESENTATIONS (^)

CMST 3150 INTERCOLLEGIATE FORENSICS I (^)

CMST 3160 INTERCOLLEGIATE FORENSICS II (^)

MKT 3100 PROFESSIONAL SELLING (^)

**Investment Science and Portfolio Management Concentration Courses****All of the Following 15**

FNBK 3000 FINANCIAL REPORTING AND ANALYSIS (^)

FNBK 3300 INTERMEDIATE FINANCIAL MANAGEMENT (^)

FNBK 3400 INVESTMENT PRINCIPLES AND PRACTICES (^)

FNBK 3500 FINANCIAL MARKETS (^)

FNBK 3700 INTERNATIONAL FINANCIAL MANAGEMENT (^)

**Select 1 of the Following 3**

FNBK 3330 ENTREPRENEURIAL FINANCE (^)

FNBK 3650 COMMERCIAL BANK MANAGEMENT (^)

FNBK 4150 ADVANCED FINANCIAL MANAGEMENT (^)

FNBK 4210 SELLING FINANCIAL SERVICES (^)

FNBK 4300 FUNDAMENTALS OF FINANCIAL PLANNING

FNBK 4470 BEHAVIORAL FINANCE &amp; INVESTING (^)

FNBK 4500 SPECIAL PROBLEMS IN FINANCE AND BANKING (^)

FNBK 4510 FINANCE AND BANKING INTERNSHIP (^)

FNBK 4570 INVESTMENT MANAGEMENT FOR FINANCIAL ANALYSTS (^)

FNBK 4590 INSURANCE PLANNING (^)

FNBK 4610 PORTFOLIO MANAGEMENT (^)

RELU 4390 REAL ESTATE INVESTMENTS (^)

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Secondary Concentration in Investment Science and Portfolio Management Requirements

| Code                           | Title                               | Credits |
|--------------------------------|-------------------------------------|---------|
| <b>All of the Following 12</b> |                                     |         |
| FNBK 3300                      | INTERMEDIATE FINANCIAL MANAGEMENT   |         |
| FNBK 3400                      | INVESTMENT PRINCIPLES AND PRACTICES |         |
| FNBK 3XXX OR FNBK 4XXX         |                                     |         |
| FNBK 3XXX OR FNBK 4XXX         |                                     |         |

# BSBA Degree with Investment Science and Portfolio Management Concentration Four Year Plan

## Freshman

| Fall                                 |  | Credits   |
|--------------------------------------|--|-----------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3         |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4         |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3         |
| General Education Course or Elective |  | 3         |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1         |
| <b>Credits</b>                       |  | <b>14</b> |
| Spring                               |  |           |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                        | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS              | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                                  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

## Sophomore

| Fall                                 |                                   |           |
|--------------------------------------|-----------------------------------|-----------|
| MKT 3200                             | BUSINESS COMMUNICATIONS           | 3         |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I        | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO)   | 3         |
| General Education Course or Elective |                                   | 4         |
| General Education Course or Elective |                                   | 3         |
| <b>Credits</b>                       |                                   | <b>16</b> |
| Spring                               |                                   |           |
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II       | 3         |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS | 3         |
| MKT 3310                             | PRINCIPLES OF MARKETING           | 3         |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS | 3         |
| General Education Course or Elective |                                   | 3         |
| <b>Credits</b>                       |                                   | <b>15</b> |

## Junior

| Fall                                 |   |           |
|--------------------------------------|---|-----------|
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT <sup>3</sup> | 3         |
| LAWS 3930                            | BUSINESS LAW FUNDAMENTALS                       | 3         |
| Second Speech <sup>4</sup>           |   | 3         |
| General Education Course or Elective |   | 3         |
| Elective                             |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |
| Spring                               |   |           |
| FNBK 3000                            | FINANCIAL REPORTING AND ANALYSIS                | 3         |
| FNBK 3300                            | INTERMEDIATE FINANCIAL MANAGEMENT <sup>5</sup>  | 3         |
| MGMT 3100                            | MANAGEMENT INFORMATION SYSTEMS                  | 3         |
| International Dimension              |   | 3         |
| Elective                             |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

## Senior

| Fall                       |   |            |
|----------------------------|---|------------|
| FNBK 3500                  | FINANCIAL MARKETS                       | 3          |
| FNBK 3700                  | INTERNATIONAL FINANCIAL MANAGEMENT      | 3          |
| SCMT 3500                  | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3          |
| International Dimension    |   | 3          |
| Elective                   |   | 3          |
| <b>Credits</b>             |   | <b>15</b>  |
| Spring                     |   |            |
| MGMT 4480                  | CORPORATE AND BUSINESS STRATEGY         | 3          |
| FNBK 3400                  | INVESTMENT PRINCIPLES AND PRACTICES     | 3          |
| FNBK Elective <sup>6</sup> |   | 3          |
| Elective                   |   | 3          |
| Elective                   |   | 3          |
| <b>Credits</b>             |   | <b>15</b>  |
| <b>Total Credits</b>       |   | <b>120</b> |

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> Students with an Investment Science & Portfolio Management concentration must earn a grade of "C+" or better in FNBK 3250.

<sup>4</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>5</sup> Students with an Investment Science & Portfolio Management concentration must earn a grade of "C+" or better in FNBK 3300.

<sup>6</sup> See DegreeWorks or Stellic for approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.



- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Real Estate and Land Use Economics Concentration

The objective of the real estate and land use economics concentration is to prepare students for careers in areas such as commercial real estate finance, asset management, investment analysis, property management, appraisal, corporate real estate management, brokerage, development, as well as other real estate-related careers in the public and private sectors.

## BSBA Degree with Real Estate and Land Use Economics Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |   |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                            |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)        |           |

|   |  |           |
|---|--|-----------|
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                 |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| <b>All of the Following</b>   |  | <b>45</b> |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |           |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |           |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                             |           |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                            |           |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |           |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                |           |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                      |           |
| LAWS 3930   | BUSINESS LAW FUNDAMENTALS (^)                              |           |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                     |           |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |           |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)                |           |
| MGMT 4480   | CORPORATE AND BUSINESS STRATEGY (^)                        |           |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |           |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |           |
| *Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit. |  |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                              |           |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)   |           |
| CMST 3140   | CONTEMPORARY PRESENTATIONS (^)                             |           |
| CMST 3150   | INTERCOLLEGIATE FORENSICS I (^)                            |           |
| CMST 3160   | INTERCOLLEGIATE FORENSICS II (^)                           |           |
| MKT 3100  | PROFESSIONAL SELLING (^)                                   |           |
| <b>Real Estate and Land Use Economics Concentration Courses</b>   |  |           |
| <b>All of the Following</b>   |  | <b>6</b>  |
| RELU 3410   | REAL ESTATE PRINCIPLES AND PRACTICES                       |           |
| RELU 4410   | BASIC APPRAISAL PROCEDURES (^)                             |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| RELU 4390   | REAL ESTATE INVESTMENTS (^)                                |           |
| RELU 4400   | RESIDENTIAL REAL ESTATE FINANCE (^)                        |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| RELU 3430   | REAL ESTATE BROKERAGE AND SALES (^)                        |           |
| RELU 3450   | PROPERTY MANAGEMENT (^)                                    |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| RELU 3460   | REAL ESTATE LAW (^)  |           |
| RELU 4440   | REAL ESTATE DEVELOPMENT (^)                                |           |
| FNBK 3000   | FINANCIAL REPORTING AND ANALYSIS (^)                       |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |

|           |   |
|-----------|---|
| RELU 2700 | REAL PROPERTY RIGHTS AND OWNERSHIP: OVERCOMING BARRIERS |
| RELU 3430 | REAL ESTATE BROKERAGE AND SALES (^)                     |
| RELU 3450 | PROPERTY MANAGEMENT (^)                                 |
| RELU 3460 | REAL ESTATE LAW (^)                                     |
| RELU 4390 | REAL ESTATE INVESTMENTS (^)                             |
| RELU 4400 | RESIDENTIAL REAL ESTATE FINANCE (^)                     |
| RELU 4440 | REAL ESTATE DEVELOPMENT (^)                             |
| RELU 4500 | REAL ESTATE INDEPENDENT STUDY (^)                       |
| RELU 4510 | REAL ESTATE INTERNSHIP (^)                              |
| ECON 3300 | INTRODUCTION TO ECONOMETRICS (^)                        |
| ECON 4350 | BUSINESS INTELLIGENCE AND REPORTING (^)                 |
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)                         |
| FNBK 3400 | INVESTMENT PRINCIPLES AND PRACTICES (^)                 |
| FNBK 3500 | FINANCIAL MARKETS (^)                                   |
| FNBK 3650 | COMMERCIAL BANK MANAGEMENT (^)                          |
| FNBK 4610 | PORTFOLIO MANAGEMENT (^)                                |
| MKT 4200  | CONSULTATIVE SELLING PRINCIPLES (^)                     |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Secondary Concentration in Real Estate and Land Use Economics Requirements

| Code                                       | Title   | Credits |
|--|---|---------|
| <b>12 Hours Required</b>                   |   |         |
| <b>All of the Following - 6 Hours</b>      |   |         |
| RELU 3410                                  | REAL ESTATE PRINCIPLES AND PRACTICES                    |         |
| RELU 4410                                  | BASIC APPRAISAL PROCEDURES                              |         |
| <b>Select 1 of the Following - 3 Hours</b> |   |         |
| RELU 4390                                  | REAL ESTATE INVESTMENTS                                 |         |
| RELU 4400                                  | RESIDENTIAL REAL ESTATE FINANCE                         |         |
| <b>Select 1 of the Following - 3 Hours</b> |   |         |
| RELU 2700                                  | REAL PROPERTY RIGHTS AND OWNERSHIP: OVERCOMING BARRIERS |         |
| RELU 3430                                  | REAL ESTATE BROKERAGE AND SALES                         |         |
| RELU 3450                                  | PROPERTY MANAGEMENT                                     |         |
| RELU 3460                                  | REAL ESTATE LAW   |         |
| RELU 4390                                  | REAL ESTATE INVESTMENTS                                 |         |
| RELU 4400                                  | RESIDENTIAL REAL ESTATE FINANCE                         |         |
| RELU 4440                                  | REAL ESTATE DEVELOPMENT                                 |         |
| RELU 4500                                  | REAL ESTATE INDEPENDENT STUDY                           |         |
| RELU 4510                                  | REAL ESTATE INTERNSHIP                                  |         |
| ECON 3300                                  | INTRODUCTION TO ECONOMETRICS                            |         |
| ECON 4350                                  | BUSINESS INTELLIGENCE AND REPORTING                     |         |
| ENTR 3710                                  | ENTREPRENEURIAL FOUNDATIONS                             |         |
| FNBK 3400                                  | INVESTMENT PRINCIPLES AND PRACTICES                     |         |
| FNBK 3500                                  | FINANCIAL MARKETS                                       |         |
| FNBK 3650                                  | COMMERCIAL BANK MANAGEMENT                              |         |

|           |                                 |
|-----------|---------------------------------|
| FNBK 4610 | PORTFOLIO MANAGEMENT            |
| MKT 4200  | CONSULTATIVE SELLING PRINCIPLES |

A grade of C (2.00) or better is required in each course counted in the secondary concentration.

## BSBA Degree with Real Estate and Land Use Economics Concentration Four Year Plan

**Freshman**

| Fall                                 |  | Credits   |
|--------------------------------------|--|-----------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3         |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4         |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3         |
| General Education Course or Elective |  | 3         |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1         |
| <b>Credits</b>                       |  | <b>14</b> |

**Spring**

|                                      |   |           |
|--------------------------------------|---|-----------|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

**Sophomore****Fall**

|                                      |                                 |           |
|--------------------------------------|---------------------------------|-----------|
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3         |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3         |
| General Education Course or Elective |                                 | 4         |
| General Education Course or Elective |                                 | 3         |
| <b>Credits</b>                       |                                 | <b>16</b> |

**Spring**

|                |                                      |           |
|----------------|--------------------------------------|-----------|
| ACCT 2020      | PRINCIPLES OF ACCOUNTING II          | 3         |
| BSAD 2130      | PRINCIPLES OF BUSINESS STATISTICS    | 3         |
| RELU 3410      | REAL ESTATE PRINCIPLES AND PRACTICES | 3         |
| MKT 3310       | PRINCIPLES OF MARKETING              | 3         |
| MGMT 3490      | MANAGING PEOPLE AND ORGANIZATIONS    | 3         |
| <b>Credits</b> |                                      | <b>15</b> |

**Junior****Fall**

|                                      |   |           |
|--------------------------------------|---|-----------|
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT                            | 3         |
| LAWS 3930                            | BUSINESS LAW FUNDAMENTALS                                     | 3         |
| Second Speech <sup>3</sup>           |   | 3         |
| General Education Course or Elective |   | 3         |
| RELU 4390<br>or RELU 4400            | REAL ESTATE INVESTMENTS<br>or RESIDENTIAL REAL ESTATE FINANCE | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

**Spring**

|           |                                |   |
|-----------|--------------------------------|---|
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS | 3 |
|-----------|--------------------------------|---|

|                                      |   |            |
|--------------------------------------|---|------------|
| International Dimension              |   | 3          |
| General Education Course or Elective |   | 3          |
| Elective                             |   | 3          |
| RELU 3430                            | REAL ESTATE BROKERAGE AND SALES         | 3          |
| or RELU 3450                         | or PROPERTY MANAGEMENT                  |            |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Senior</b>                        |   |            |
| <b>Fall</b>                          |   |            |
| SCMT 3500                            | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3          |
| International Dimension              |   | 3          |
| RELU 4410                            | BASIC APPRAISAL PROCEDURES              | 3          |
| RELU Elective <sup>4</sup>           |   | 3          |
| Elective                             |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| MGMT 4480                            | CORPORATE AND BUSINESS STRATEGY         | 3          |
| RELU Elective <sup>4</sup>           |   | 3          |
| Elective                             |   | 3          |
| Elective                             |   | 3          |
| Elective                             |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Total Credits</b>                 |   | <b>120</b> |

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>4</sup> At least one RELU Elective must be one of the following: RELU 3460, RELU 4440, or FNBK 3000. See DegreeWorks or Stellic for other approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

**\*\*Transfer credit or placement exam scores may change suggested plan of study**

#### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

#### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.

- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## UNO Real Estate Certificate

### UNO Real Estate Certificate Requirements

| Code                                | Title   | Credits   |
|-------------------------------------|---|-----------|
| <b>15 Hours Required</b>            |   |           |
| <b>All of the Following</b>         |   | <b>3</b>  |
| RELU 3410                           | REAL ESTATE PRINCIPLES AND PRACTICES                    |           |
| <b>Select up 4 of the Following</b> |   | <b>12</b> |
| RELU 2700                           | REAL PROPERTY RIGHTS AND OWNERSHIP: OVERCOMING BARRIERS |           |
| RELU 3430                           | REAL ESTATE BROKERAGE AND SALES                         |           |
| RELU 3450                           | PROPERTY MANAGEMENT                                     |           |
| RELU 3460                           | REAL ESTATE LAW   |           |
| RELU 4390                           | REAL ESTATE INVESTMENTS                                 |           |
| RELU 4400                           | RESIDENTIAL REAL ESTATE FINANCE                         |           |
| RELU 4410                           | BASIC APPRAISAL PROCEDURES                              |           |
| RELU 4440                           | REAL ESTATE DEVELOPMENT                                 |           |
| RELU 4500                           | REAL ESTATE INDEPENDENT STUDY                           |           |
| RELU 4510                           | REAL ESTATE INTERNSHIP                                  |           |

## Management

### Contact

UNO Management Department  
402.554.2525

### Degrees Offered

- Bachelor of Science in Business Administration (<https://catalog.unomaha.edu/undergraduate/college-business-administration/bs-business-administration/>)

## Management Concentrations

Management concentrations include Management & Leadership, Human Resource Management, and Supply Chain Management. Managers combine human and material resources to accomplish organizational objectives. Such results are achieved through the managerial processes of planning, leading, organizing and controlling. Today's competitive, global business environment presents many challenges to managers including managing change and innovation, developing a global perspective, becoming an effective leader, and improving organizational performance by focusing on quality and continuous improvement. The management concentrations are designed to prepare students to effectively face these challenges in an environment of risk, uncertainty, and ambiguity. All Management concentrations require a minimum of eighteen (18) credit hours. A student may choose more than one concentration with a resulting increase in the number of required courses.<sup>1</sup>

<sup>1</sup> Note: Students completing more than one Management concentration cannot apply more than six common credits to each Management concentration.

## Concentrations Offered:

- Management & Leadership Concentration (p. 412)
- Human Resource Management Concentration (p. 414)
- Logistics & Supply Chain Management Concentration (p. 416)

## Secondary Concentrations Offered:

- Secondary Concentration in Management & Leadership (p. 412)
- Secondary Concentration in Logistics & Supply Chain Management (p. 416)

## Management

- Account Executive
- Business Analyst
- Business Development Manager
- Business Systems Analyst
- Compliance Analyst
- Customer Relationship Manager
- Human Resources and Management Consultant
- Human Resources Executive
- Human Resources Manager
- Logistics Analyst
- Office Manager
- Operations Officer
- Project Manager
- Purchasing Specialist
- Retail Manager
- Training and Development Specialist

## Management & Leadership Concentration

The Management & Leadership concentration provides students with opportunities to develop the technical, interpersonal, conceptual, diagnostic, communication, and decision-making skills to effectively carry out management functions. The Management & Leadership concentration is designed with the flexibility to permit students to select management courses that will meet their specific interests and career objectives.

## BSBA Degree with Management & Leadership Concentration Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b> |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |

|   |  |           |
|---|--|-----------|
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |  |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the following:</b>  |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                               |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)           |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                 |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| <b>All of the Following</b>   |  | <b>45</b> |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |           |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |           |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                             |           |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                            |           |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |           |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                |           |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                      |           |
| LAWS 3930   | BUSINESS LAW FUNDAMENTALS (^)                              |           |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                     |           |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |           |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)                |           |
| MGMT 4480   | CORPORATE AND BUSINESS STRATEGY (^)                        |           |

\*INTERNATIONAL DIMENSION - 3 hrs

\*INTERNATIONAL DIMENSION - 3 hrs

\*Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit.

**Select 1 of the Following**

**3**

|           |  |
|-----------|--|
| CMST 2120 | ARGUMENTATION AND DEBATE (**)                            |
| CMST 3130 | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |
| CMST 3140 | CONTEMPORARY PRESENTATIONS (^)                           |
| CMST 3150 | INTERCOLLEGIATE FORENSICS I (^)                          |
| CMST 3160 | INTERCOLLEGIATE FORENSICS II (^)                         |
| MKT 3100  | PROFESSIONAL SELLING (^)                                 |

**Management & Leadership Concentration Courses**

**All of the Following**

**9**

|           |  |
|-----------|--|
| MGMT 4040 | MANAGING BEHAVIOR IN ORGANIZATIONS (^) |
| MGMT 4100 | MANAGING CHANGE AND INNOVATION (^)     |
| MGMT 4230 | LEARNING TO LEAD (^)                   |

**Select 3 of the Following**

**9**

|                |   |
|----------------|---|
| MGMT/ACMP 4090 | MANAGING COLLABORATIVE ENGAGEMENT (^)       |
| MGMT 4150      | GLOBAL BUSINESS MANAGEMENT (^)              |
| MGMT 4330      | PROJECT MANAGEMENT (^)                      |
| MGMT 4450      | MANAGERIAL NEGOTIATION STRATEGIES (^)       |
| MGMT 4720      | INNOVATION VENTURES (^) <sup>1</sup>        |
| MGMT 4510      | MANAGEMENT INTERNSHIP (^)                   |
| MGMT 4030      | HUMAN RESOURCE MANAGEMENT (^)               |
| MGMT 3410      | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (^) |
| ENTR 3710      | ENTREPRENEURIAL FOUNDATIONS (^)             |
| LAWS 4220      | LEGAL ISSUES IN MANAGEMENT (^)              |
| or LAWS 3940   | LEGAL AND ETHICAL APPLICATIONS              |

**ELECTIVES -**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> This course has not been offered since 2020.

## Secondary Concentration in Management & Leadership Requirements

| Code  | Title                              | Credits |
|---|------------------------------------|---------|
| <b>All of the Following - 12 Hours Required</b> |                                    |         |
| MGMT 3490                                       | MANAGING PEOPLE AND ORGANIZATIONS  |         |
| MGMT 4040                                       | MANAGING BEHAVIOR IN ORGANIZATIONS |         |
| MGMT 4100                                       | MANAGING CHANGE AND INNOVATION     |         |
| MGMT 4230                                       | LEARNING TO LEAD                   |         |

Students must meet all prerequisites to enroll in MGMT 3490 (<https://catalog.unomaha.edu/search/?P=MGMT%203490>). A grade of C (2.00) or

better is required in each course to apply to the secondary concentration in management & leadership.

## BSBA Degree with Management & Leadership Concentration Four Year Plan

### Freshman

| Fall                                 |  | Credits   |
|--------------------------------------|--|-----------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3         |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4         |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3         |
| General Education Course or Elective |  | 3         |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1         |
| <b>Credits</b>                       |  | <b>14</b> |

### Spring

|                                      |   |           |
|--------------------------------------|---|-----------|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

### Sophomore

| Fall                                 |                                 |           |
|--------------------------------------|---------------------------------|-----------|
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3         |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3         |
| General Education Course or Elective |                                 | 4         |
| General Education Course or Elective |                                 | 3         |
| <b>Credits</b>                       |                                 | <b>16</b> |

### Spring

|                                      |                                   |           |
|--------------------------------------|-----------------------------------|-----------|
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II       | 3         |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS | 3         |
| MKT 3310                             | PRINCIPLES OF MARKETING           | 3         |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS | 3         |
| General Education Course or Elective |                                   | 3         |
| <b>Credits</b>                       |                                   | <b>15</b> |

### Junior

| Fall                                 |                                    |           |
|--------------------------------------|------------------------------------|-----------|
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT | 3         |
| LAWS 3930                            | BUSINESS LAW FUNDAMENTALS          | 3         |
| Second Speech <sup>3</sup>           |                                    | 3         |
| General Education Course or Elective |                                    | 3         |
| MGMT 4040                            | MANAGING BEHAVIOR IN ORGANIZATIONS | 3         |
| <b>Credits</b>                       |                                    | <b>15</b> |

### Spring

|                            |                                |   |
|----------------------------|--------------------------------|---|
| MGMT 3100                  | MANAGEMENT INFORMATION SYSTEMS | 3 |
| International Dimension    |                                | 3 |
| MGMT 4100                  | MANAGING CHANGE AND INNOVATION | 3 |
| MGMT Elective <sup>4</sup> |                                | 3 |



|                            |   |            |
|----------------------------|---|------------|
| Elective                   |   | 3          |
| <b>Credits</b>             |   | <b>15</b>  |
| <b>Senior</b>              |   |            |
| <b>Fall</b>                |   |            |
| SCMT 3500                  | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3          |
| International Dimension    |   | 3          |
| MGMT 4230                  | LEARNING TO LEAD                        | 3          |
| MGMT Elective <sup>4</sup> |   | 3          |
| Elective                   |   | 3          |
| <b>Credits</b>             |   | <b>15</b>  |
| <b>Spring</b>              |   |            |
| MGMT 4480                  | CORPORATE AND BUSINESS STRATEGY         | 3          |
| MGMT Elective <sup>4</sup> |   | 3          |
| Elective                   |   | 3          |
| Elective                   |   | 3          |
| Elective                   |   | 3          |
| <b>Credits</b>             |   | <b>15</b>  |
| <b>Total Credits</b>       |   | <b>120</b> |

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>4</sup> See DegreeWorks or Stellic for approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

#### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.

CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration

or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Human Resource Management Concentration

The Human Resource Management concentration is for students who wish to focus on the human resource management functions of an organization. These functions include workforce staffing (recruitment and selection), talent development (training and development), performance management, total rewards (compensation and benefits), employee and labor relations, and strategic human resource planning.

Students must complete MGMT 4030 (<https://catalog.unomaha.edu/search/?P=MGMT%204030>) with a C+ or above in order to complete the Human Resource Management concentration.

## BSBA Degree with Human Resource Management Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| <b>Social Science – 3 hrs.</b>  |   |           |
| <b>Humanities – 3 hrs.</b>  |   |           |
| <b>Natural &amp; Physical Science (must complete a lab) – 4 hrs.</b>  |   |           |
| <b>Arts – 3 hrs.</b>  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| <b>Cultural Knowledge – 3 hrs.</b>  |   |           |
| <b>Civic Knowledge and Engagement – 3 hrs.</b>  |   |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |   |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   |           |

|   |  |
|---|--|
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                               |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)           |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                 |
| <b>Select 1 of the Following</b>  |  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| <b>All of the Following</b>   |  |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                             |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                            |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                      |
| LAWS 3930   | BUSINESS LAW FUNDAMENTALS (^)                              |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                     |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)                |
| MGMT 4480   | CORPORATE AND BUSINESS STRATEGY (^)                        |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |
| *Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit. |  |
| <b>Select 1 of the Following</b>  |  |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                              |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)   |
| CMST 3140   | CONTEMPORARY PRESENTATIONS (^)                             |
| CMST 3150   | INTERCOLLEGIATE FORENSICS I (^)                            |
| CMST 3160   | INTERCOLLEGIATE FORENSICS II (^)                           |
| MKT 3100  | PROFESSIONAL SELLING (^)                                   |
| <b>Human Resource Management Concentration Courses</b>  |  |
| <b>All of the Following</b>   |  |
| MGMT 4030   | HUMAN RESOURCE MANAGEMENT (^)                              |
| MGMT 4040   | MANAGING BEHAVIOR IN ORGANIZATIONS (^)                     |
| <b>Select 4 of the Following</b>  |  |
| MGMT 4010   | TOTAL REWARDS (^)  |
| MGMT 4110   | STAFFING THE ORGANIZATION (^)                              |
| MGMT 4120   | TALENT DEVELOPMENT (^)                                     |
| MGMT 4220   | EMPLOYMENT LAW (^)   |
| MGMT 4520   | HUMAN RESOURCES MANAGEMENT INTERNSHIP (^)                  |
| <b>ELECTIVES</b>  |  |
| Elective hours as required to reach a total of 120 hours  |  |

## BSBA Degree with Human Resource Management Concentration Four Year Plan

### Freshman

| Fall                                 |  | Credits |
|--------------------------------------|--|---------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3       |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4       |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3       |
| General Education Course or Elective |  | 3       |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1       |

**Credits** **14**

### Spring

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3 |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3 |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3 |
| General Education Course or Elective |   | 3 |
| General Education Course or Elective |   | 3 |

**Credits** **15**

### Sophomore

#### Fall

|                                      |                                 |   |
|--------------------------------------|---------------------------------|---|
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3 |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3 |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3 |
| General Education Course or Elective |                                 | 4 |
| General Education Course or Elective |                                 | 3 |

**Credits** **16**

#### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II                    | 3 |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS              | 3 |
| MKT 3310                             | PRINCIPLES OF MARKETING                        | 3 |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS <sup>3</sup> | 3 |
| General Education Course or Elective |  | 3 |

**Credits** **15**

### Junior

#### Fall

|                            |  |   |
|----------------------------|--|---|
| LAWS 3930                  | BUSINESS LAW FUNDAMENTALS              | 3 |
| FNBK 3250                  | PRINCIPLES OF FINANCIAL MANAGEMENT     | 3 |
| Second Speech <sup>3</sup> |  | 3 |
| MGMT 4040                  | MANAGING BEHAVIOR IN ORGANIZATIONS     | 3 |
| MGMT 4030                  | HUMAN RESOURCE MANAGEMENT <sup>4</sup> | 3 |

**Credits** **15**

#### Spring

|                                      |                                |   |
|--------------------------------------|--------------------------------|---|
| MGMT 3100                            | MANAGEMENT INFORMATION SYSTEMS | 3 |
| International Dimension              |                                | 3 |
| MGMT 4120                            | TALENT DEVELOPMENT             | 3 |
| MGMT 4220                            | EMPLOYMENT LAW                 | 3 |
| General Education Course or Elective |                                | 3 |

**Credits** **15**

**Senior****Fall**

|                         |   |           |
|-------------------------|---|-----------|
| SCMT 3500               | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3         |
| International Dimension |   | 3         |
| MGMT 4010               | TOTAL REWARDS                           | 3         |
| MGMT 4110               | STAFFING THE ORGANIZATION               | 3         |
| Elective                |   | 3         |
| <b>Credits</b>          |   | <b>15</b> |

**Spring**

|                      |                                 |            |
|----------------------|---------------------------------|------------|
| MGMT 4480            | CORPORATE AND BUSINESS STRATEGY | 3          |
| Elective             |                                 | 3          |
| Elective             |                                 | 3          |
| Elective             |                                 | 3          |
| Elective             |                                 | 3          |
| <b>Credits</b>       |                                 | <b>15</b>  |
| <b>Total Credits</b> |                                 | <b>120</b> |

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>4</sup> Students with a Human Resource Management concentration must earn a grade of "C+" or better in MGMT 4030.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

**Graduation Requirements:**

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.

CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration

or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Logistics & Supply Chain Management Concentration

The Logistics & Supply Chain Management concentration is for students who wish to focus on the supply chain functions within an organization. These functional areas include logistics (transportation management and scheduling), procurement (purchasing and materials management), effective resource management (lean manufacturing and lean supply chain management), and the three pillars of sustainable chains (people, profit, and planet).

## BSBA Degree with Logistics and Supply Chain Management Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |   |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                            |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)        |           |

|   |  |    |
|---|--|----|
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                 | 3  |
| Select 1 of the Following   |  |    |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |    |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) | 45 |
| All of the Following  |  |    |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |    |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |    |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |    |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                             |    |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                            |    |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |    |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                |    |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                      |    |
| LAWS 3930   | BUSINESS LAW FUNDAMENTALS (^)                              |    |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                     |    |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                         |    |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)                |    |
| MGMT 4480   | CORPORATE AND BUSINESS STRATEGY (^)                        |    |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |    |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |    |
| *Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit. |  |    |
| Select 1 of the Following   |  | 3  |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                              |    |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)   |    |
| CMST 3140   | CONTEMPORARY PRESENTATIONS (^)                             |    |
| CMST 3150   | INTERCOLLEGIATE FORENSICS I (^)                            |    |
| CMST 3160   | INTERCOLLEGIATE FORENSICS II (^)                           |    |
| MKT 3100  | PROFESSIONAL SELLING (^)                                   |    |
| Logistics & Supply Chain Management Concentration Courses   |  |    |
| All of the Following  |  | 9  |
| SCMT 3410   | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (^)                |    |
| SCMT/MKT 4380   | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT (^)         |    |
| SCMT 4350   | GLOBAL SOURCING AND INNOVATION (^)                         |    |
| Select 3 of the Following   |  | 9  |
| ACCT 3050   | INTERMEDIATE MANAGERIAL ACCOUNTING (^)                     |    |
| AVN 3700  | TRANSPORTATION ANALYSIS (^)                                |    |
| ISQA/SCMT 4160  | ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING (^)       |    |
| SCMT/MGMT 4330  | PROJECT MANAGEMENT (^)                                     |    |
| MGMT 4440   | QUALITY MANAGEMENT (^)                                     |    |
| SCMT 4370   | SUPPLY CHAIN ANALYTICS (^)                                 |    |

|                |  |
|----------------|--|
| SCMT/MGMT 4450 | MANAGERIAL NEGOTIATION STRATEGIES (^)            |
| SCMT 4540      | SUPPLY CHAIN MANAGEMENT INTERNSHIP (^)           |
| SCMT 4060      | HEALTHCARE ANALYTICS FOR BUSINESS (^)            |
| SCMT 4170      | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT (^)   |
| SCMT 4460      | SUPPLY CHAIN INTEGRATION (^)                     |
| SCMT 4070      | INTERNATIONAL LOGISTICS MANAGEMENT (^)           |
| SCMT 4550      | COOPERATIVE EDUCATION IN BUSINESS ADMINISTRATION |
| SCMT 4560      | COOPERATIVE EDUCATION IN BUSINESS ADMINISTRATION |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Secondary Concentration in Logistics & Supply Chain Management Requirements

| Code                                       | Title  | Credits |
|--|--|---------|
| <b>12 Hours Required</b>                   |  |         |
| <b>All of the Following - 3 Hours</b>      |  |         |
| SCMT 3410                                  | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT          |         |
| <b>Select 1 of the Following - 3 Hours</b> |  |         |
| SCMT/MKT 4380                              | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT   |         |
| SCMT 4350                                  | GLOBAL SOURCING AND INNOVATION                   |         |
| <b>Select 2 of the Following - 6 Hours</b> |  |         |
| ACCT 3050                                  | INTERMEDIATE MANAGERIAL ACCOUNTING               |         |
| AVN 3700                                   | TRANSPORTATION ANALYSIS                          |         |
| ISQA/SCMT 4160                             | ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING |         |
| SCMT/MGMT 4330                             | PROJECT MANAGEMENT                               |         |
| MGMT 4440                                  | QUALITY MANAGEMENT                               |         |
| SCMT 4370                                  | SUPPLY CHAIN ANALYTICS                           |         |
| SCMT/MGMT 4450                             | MANAGERIAL NEGOTIATION STRATEGIES                |         |
| SCMT 4540                                  | SUPPLY CHAIN MANAGEMENT INTERNSHIP               |         |
| SCMT 4060                                  | HEALTHCARE ANALYTICS FOR BUSINESS                |         |
| SCMT 4170                                  | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT       |         |
| SCMT 4460                                  | SUPPLY CHAIN INTEGRATION                         |         |
| SCMT 4070                                  | INTERNATIONAL LOGISTICS MANAGEMENT               |         |
| SCMT 4550                                  | COOPERATIVE EDUCATION IN BUSINESS ADMINISTRATION |         |
| SCMT 4560                                  | COOPERATIVE EDUCATION IN BUSINESS ADMINISTRATION |         |

## BSBA Degree with Logistics and Supply Chain Management Concentration Four Year Plan

### Freshman

| Fall                                 |  | Credits |
|--------------------------------------|--|---------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3       |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4       |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3       |
| General Education Course or Elective |  | 3       |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1       |

**Credits 14**

### Spring

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3 |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3 |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3 |
| General Education Course or Elective |   | 3 |
| General Education Course or Elective |   | 3 |

**Credits 15**

### Sophomore

| Fall                                 |                                 | Credits |
|--------------------------------------|---------------------------------|---------|
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3       |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3       |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3       |
| General Education Course or Elective |                                 | 4       |
| General Education Course or Elective |                                 | 3       |

**Credits 16**

### Spring

|           |   |   |
|-----------|---|---|
| ACCT 2020 | PRINCIPLES OF ACCOUNTING II             | 3 |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS       | 3 |
| SCMT 3410 | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT | 3 |
| MGMT 3490 | MANAGING PEOPLE AND ORGANIZATIONS       | 3 |
| MKT 3310  | PRINCIPLES OF MARKETING                 | 3 |

**Credits 15**

### Junior

| Fall                                 |                                    | Credits |
|--------------------------------------|------------------------------------|---------|
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT | 3       |
| LAWS 3930                            | BUSINESS LAW FUNDAMENTALS          | 3       |
| Second Speech <sup>3</sup>           |                                    | 3       |
| SCMT Elective <sup>4</sup>           |                                    | 3       |
| General Education Course or Elective |                                    | 3       |

**Credits 15**

### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| MGMT 3100                            | MANAGEMENT INFORMATION SYSTEMS                 | 3 |
| International Dimension              |  | 3 |
| General Education Course or Elective |  | 3 |
| SCMT 4380                            | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT | 3 |
| SCMT Elective <sup>4</sup>           |  | 3 |

**Credits 15**

### Senior

#### Fall

|           |   |   |
|-----------|---|---|
| SCMT 4350 | GLOBAL SOURCING AND INNOVATION          | 3 |
| SCMT 3500 | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3 |

International Dimension 3

Elective 3

Elective 3

**Credits 15**

#### Spring

|                            |                                 |   |
|----------------------------|---------------------------------|---|
| MGMT 4480                  | CORPORATE AND BUSINESS STRATEGY | 3 |
| SCMT Elective <sup>4</sup> |                                 | 3 |

Elective 3

Elective 3

Elective 3

**Credits 15**

**Total Credits 120**

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>4</sup> See DegreeWorks or Stellic for approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.

CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.



## Marketing

### Contact:

UNO Marketing Department  
402.554.3986

### Degrees Offered

- Bachelor of Science in Business Administration (<https://catalog.unomaha.edu/undergraduate/college-business-administration/bs-business-administration/>)

### Concentrations Offered:

- Entrepreneurship Concentration (p. 419)
- International Business Concentration (p. 421)
- Marketing Concentration (p. 424)
- Sales Concentration (p. 426)

### Secondary Concentrations Offered:

- Secondary Concentration in Entrepreneurship (p. 419)
- Secondary Concentration in International Business (p. 421)
- Secondary Concentration in Marketing (p. 424)
- Secondary Concentration in Sales (p. 426)

## Marketing and Entrepreneurship

- Advertising Specialist
- Brand Specialist
- Business Owner
- Communications Director
- Copywriter
- Design and Digital Content Specialist
- Entrepreneur
- Market Research Analyst
- Marketing and Communications Consultant
- Marketing Specialist
- Sales and Marketing Manager
- Sales Representative
- Search Engine Optimization (SEO) Specialist
- Social Media Marketing Manager
- Public Relations Manager
- Event Coordinator
- Content Marketing Specialist
- Digital Marketing Manager

## Entrepreneurship Concentration

The Entrepreneurship Concentration is for students interested in starting, owning, and/or operating a business venture as well as students interested in serving entrepreneurial ventures as consultants, bankers, accountants, and marketing professionals. The entrepreneurship concentration has a practical emphasis designed to assist students in developing and operating their new and/or small ventures. Courses in this concentration lead students through the different processes of getting into business, addresses important operating issues relevant to the running of day-to-day activities of a venture, and discuss the important topic of planning for business growth and development.

## BSBA Degree with Entrepreneurship Concentration Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                      |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                  |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                      |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |  |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the following:</b>  |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                               |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)           |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                 |           |
| <b>Select 1 of the Following - 3 Hours</b>  |  | <b>3</b>  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| <b>All of the Following</b>   |  | <b>45</b> |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |           |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |           |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                             |           |

|           |   |
|-----------|---|
| ACCT 2020 | PRINCIPLES OF ACCOUNTING II (^)             |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                 |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                 |
| MGMT 3490 | MANAGING PEOPLE AND ORGANIZATIONS (^)       |
| LAWS 3930 | BUSINESS LAW FUNDAMENTALS (^)               |
| FNBK 3250 | PRINCIPLES OF FINANCIAL MANAGEMENT (^)      |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS (^)          |
| SCMT 3500 | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^) |
| MGMT 4480 | CORPORATE AND BUSINESS STRATEGY (^)         |

\*INTERNATIONAL DIMENSION - 3 hrs

\*INTERNATIONAL DIMENSION - 3 hrs

\*Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit.

#### Select 1 of the Following

3

|           |  |
|-----------|--|
| CMST 2120 | ARGUMENTATION AND DEBATE (**)                            |
| CMST 3130 | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |
| CMST 3140 | CONTEMPORARY PRESENTATIONS (^)                           |
| CMST 3150 | INTERCOLLEGIATE FORENSICS I (^)                          |
| CMST 3160 | INTERCOLLEGIATE FORENSICS II (^)                         |
| MKT 3100  | PROFESSIONAL SELLING (^)                                 |

#### Entrepreneurship Concentration Courses

##### All of the Following

12

|          |                                 |
|----------|---------------------------------|
| ENR 3710 | ENTREPRENEURIAL FOUNDATIONS (^) |
| ENR 3330 | ENTREPRENEURIAL FINANCE (^)     |
| ENR 4730 | NEW VENTURE FORMATION (^)       |
| ENR 4750 | SOCIAL ENTREPRENEURSHIP (^)     |

##### Select 2 of the Following

6

|           |  |
|-----------|--|
| ENR 4000  | SPECIAL TOPICS IN ENTREPRENEURSHIP (^)                   |
| ENR 4150  | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)               |
| ENR 4390  | MEDIA ENTREPRENEURSHIP (^)                               |
| ENR 4530  | ENTREPRENEURSHIP INTERNSHIP (^)                          |
| ENR 4690  | EMERGING TECHNOLOGY AND INNOVATION (^)                   |
| ENR 4720  | INNOVATION VENTURES (^)                                  |
| ENR 4740  | TECHNOLOGY AND INNOVATION MANAGEMENT (^)                 |
| ENR 4760  | SELLING IN AN ENTREPRENEURIAL CONTEXT (^)                |
| ENR 4770  | INTRODUCTORY MAVERICK VENTURE FUND (^)                   |
| ENR 4780  | INTERMEDIATE MAVERICK VENTURE FUND (^)                   |
| ENR 4790  | ADVANCED MAVERICK VENTURE FUND (^)                       |
| ENR 4710  | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION (^) |
| MKT 3400  | MARKETING INNOVATION (^)                                 |
| SCMT 4450 | MANAGERIAL NEGOTIATION STRATEGIES (^)                    |

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Secondary Concentration in Entrepreneurship Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

#### 12 Hours Required

##### All of the Following - 6 Hours

|          |                             |
|----------|-----------------------------|
| ENR 3710 | ENTREPRENEURIAL FOUNDATIONS |
| ENR 4730 | NEW VENTURE FORMATION       |

##### Select 2 of the Following - 6 Hours

|           |  |
|-----------|--|
| ENR 3330  | ENTREPRENEURIAL FINANCE                              |
| ENR 4690  | EMERGING TECHNOLOGY AND INNOVATION                   |
| ENR 4740  | TECHNOLOGY AND INNOVATION MANAGEMENT                 |
| ENR 4750  | SOCIAL ENTREPRENEURSHIP                              |
| ENR 4760  | SELLING IN AN ENTREPRENEURIAL CONTEXT                |
| ENR 4720  | INNOVATION VENTURES                                  |
| ENR 4000  | SPECIAL TOPICS IN ENTREPRENEURSHIP                   |
| ENR 4770  | INTRODUCTORY MAVERICK VENTURE FUND                   |
| ENR 4780  | INTERMEDIATE MAVERICK VENTURE FUND                   |
| ENR 4790  | ADVANCED MAVERICK VENTURE FUND                       |
| ENR 4150  | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP               |
| ENR 4710  | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION |
| ENR 4530  | ENTREPRENEURSHIP INTERNSHIP                          |
| ENR 4390  | MEDIA ENTREPRENEURSHIP                               |
| MKT 3400  | MARKETING INNOVATION                                 |
| SCMT 4450 | MANAGERIAL NEGOTIATION STRATEGIES                    |

## BSBA Degree with Entrepreneurship Concentration Four Year Plan

#### Freshman

| Fall                                 |  | Credits   |
|--------------------------------------|--|-----------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3         |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4         |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3         |
| General Education Course or Elective |  | 3         |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1         |
| <b>Credits</b>                       |  | <b>14</b> |

#### Spring

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3 |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3 |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3 |
| General Education Course or Elective |   | 3 |

|                                      |           |
|--------------------------------------|-----------|
| General Education Course or Elective | 3         |
| <b>Credits</b>                       | <b>15</b> |

### Sophomore Fall

|                                      |                                 |   |
|--------------------------------------|---------------------------------|---|
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3 |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3 |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3 |
| General Education Course or Elective |                                 | 4 |
| General Education Course or Elective |                                 | 3 |

**Credits** 16

### Spring

|           |                                   |   |
|-----------|-----------------------------------|---|
| ACCT 2020 | PRINCIPLES OF ACCOUNTING II       | 3 |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS | 3 |
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS       | 3 |
| MGMT 3490 | MANAGING PEOPLE AND ORGANIZATIONS | 3 |
| MKT 3310  | PRINCIPLES OF MARKETING           | 3 |

**Credits** 15

### Junior

#### Fall

|                                      |                                    |   |
|--------------------------------------|------------------------------------|---|
| LAWS 3930                            | BUSINESS LAW FUNDAMENTALS          | 3 |
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT | 3 |
| Second Speech <sup>3</sup>           |                                    | 3 |
| ENTR 4750                            | SOCIAL ENTREPRENEURSHIP            | 3 |
| General Education Course or Elective |                                    | 3 |

**Credits** 15

### Spring

|                                      |                                |   |
|--------------------------------------|--------------------------------|---|
| MGMT 3100                            | MANAGEMENT INFORMATION SYSTEMS | 3 |
| International Dimension              |                                | 3 |
| ENTR 4730                            | NEW VENTURE FORMATION          | 3 |
| ENTR 3330                            | ENTREPRENEURIAL FINANCE        | 3 |
| General Education Course or Elective |                                | 3 |

**Credits** 15

### Senior

#### Fall

|                            |   |   |
|----------------------------|---|---|
| SCMT 3500                  | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3 |
| International Dimension    |   | 3 |
| ENTR Elective <sup>4</sup> |   | 3 |
| Elective                   |   | 3 |
| Elective                   |   | 3 |

**Credits** 15

### Spring

|                            |                                 |   |
|----------------------------|---------------------------------|---|
| MGMT 4480                  | CORPORATE AND BUSINESS STRATEGY | 3 |
| ENTR Elective <sup>4</sup> |                                 | 3 |
| Elective                   |                                 | 3 |
| Elective                   |                                 | 3 |
| Elective                   |                                 | 3 |

**Credits** 15

**Total Credits** 120

<sup>4</sup> See DegreeWorks or Stellic for approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## International Business Concentration

A concentration in International Business (IB) provides students with the knowledge, skills and experience necessary for successful careers in the global business environment. BSBA students must combine the International Business Concentration with another BSBA Concentration. With this preparation, graduates will be prepared for employment in many manufacturing, service, or knowledge-based industries with international markets, international suppliers, international sources of finance, or an international workforce.

The completion of specified courses in international business may be applied toward the course requirements in other concentration areas.

## BSBA Degree with International Business Concentration Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>General Education Requirements - 34 Hours Required</b> |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |       |           |

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

|   |  |
|---|--|
| ENGL 1150   | ENGLISH COMPOSITION I                                      |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                  |
| <b>Oral Communication – 3 hrs.</b>  |  |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                      |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |
| STAT 1530   | ELEMENTARY STATISTICS                                      |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge 13</b>  |  |
| Social Science – 3 hrs.   |  |
| Humanities – 3 hrs.   |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility 6</b>   |  |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS - 87 Hours Required</b>   |  |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following:</b>  |  |
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                               |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)           |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                 |
| <b>Select 1 of the Following 3</b>  |  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| <b>All of the Following 45</b>  |  |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I ( ^)                            |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II ( ^)                           |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                      |
| LAWS 3930   | BUSINESS LAW FUNDAMENTALS (^)                              |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                     |

|   |   |
|---|---|
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)  |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)                                 |
| MGMT 4480   | CORPORATE AND BUSINESS STRATEGY (^)   |
| *INTERNATIONAL DIMENSION - 3 hrs  |   |
| *INTERNATIONAL DIMENSION - 3 hrs  |   |
| *Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit. |   |
| <b>Select 1 of the Following 3</b>  |   |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)   |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^)                    |
| CMST 3140   | CONTEMPORARY PRESENTATIONS (^)  |
| CMST 3150   | INTERCOLLEGIATE FORENSICS I (^)   |
| CMST 3160   | INTERCOLLEGIATE FORENSICS II (^)  |
| MKT 3100  | PROFESSIONAL SELLING (^)  |
| <b>International Business Concentration Courses</b>   |   |
| <b>All of the Following 15</b>  |   |
| BSAD 2700   | GLOBALIZATION OF BUSINESS ENTERPRISE (**)                                   |
| ECON 3600   | INTRODUCTION TO INTERNATIONAL ECONOMICS (^)                                 |
| FNBK 3700   | INTERNATIONAL FINANCIAL MANAGEMENT (^)                                      |
| MGMT 4150   | GLOBAL BUSINESS MANAGEMENT (^)  |
| MKT 3380  | INTERNATIONAL MARKETING (^)   |
| <b>Select 1 of the Following 3</b>  |   |
| BSAD 4000   | INTERNATIONAL BUSINESS STUDY ABROAD (^)                                     |
| ECON 4610   | INTERNATIONAL TRADE (^)   |
| ECON 4620   | INTERNATIONAL MONETARY THEORY (^)   |
| ECON 4660   | INTERNATIONAL ECONOMIC DEVELOPMENT (^)                                      |
| LAWS 4930   | INTERNATIONAL BUSINESS LAW (^)  |
| SCMT 4350   | GLOBAL SOURCING AND INNOVATION (^)  |
| ENTR 4710   | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION (^)                    |
| GEOG 4550   | GEOGRAPHY OF THE WORLD ECONOMY (^)  |
| WLL 4010  | MULTIDISCIPLINARY APPROACHES TO THE STUDY OF LANGUAGE, CULTURE, AND SOCIETY |
| CMST 4570   | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (** ^)                     |
| PSCI 4290   | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY (^)                              |
| <b>Required Second Concentration 18</b>   |   |
| <b>ELECTIVES</b>  |   |
| Elective hours as required to reach a total of 120 hours  |   |

## Secondary Concentration in International Business Requirements

| Code                                       | Title   | Credits |
|--|---|---------|
| <b>12 Hours Required</b>                   |   |         |
| <b>All of the Following - 3 Hours</b>      |   |         |
| BSAD 2700                                  | GLOBALIZATION OF BUSINESS ENTERPRISE (**)                                   |         |
| <b>Select 3 of the Following - 9 Hours</b> |   |         |
| BSAD 4000                                  | INTERNATIONAL BUSINESS STUDY ABROAD   |         |
| ECON 3600                                  | INTRODUCTION TO INTERNATIONAL ECONOMICS                                     |         |
| ECON 4610                                  | INTERNATIONAL TRADE   |         |
| ECON 4620                                  | INTERNATIONAL MONETARY THEORY   |         |
| ECON 4660                                  | INTERNATIONAL ECONOMIC DEVELOPMENT  |         |
| FNBK 3700                                  | INTERNATIONAL FINANCIAL MANAGEMENT  |         |
| LAWS 4930                                  | INTERNATIONAL BUSINESS LAW  |         |
| MGMT 4150                                  | GLOBAL BUSINESS MANAGEMENT  |         |
| MKT 3380                                   | INTERNATIONAL MARKETING   |         |
| SCMT 4350                                  | GLOBAL SOURCING AND INNOVATION  |         |
| WLL 4010                                   | MULTIDISCIPLINARY APPROACHES TO THE STUDY OF LANGUAGE, CULTURE, AND SOCIETY | 3       |

## BSBA Degree with International Business Concentration Four Year Plan

|                                      |  |           |
|--------------------------------------|--|-----------|
| <b>Freshman</b>                      |  |           |
| <b>Fall</b>                          |  |           |
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3         |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4         |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3         |
| General Education Course or Elective |  | 3         |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1         |
| <b>Credits</b>                       |  | <b>14</b> |
| <b>Spring</b>                        |  |           |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                        | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS              | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                                  | 3         |
| BSAD 2700                            | GLOBALIZATION OF BUSINESS ENTERPRISE                             | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |
| <b>Sophomore</b>                     |  |           |
| <b>Fall</b>                          |  |           |
| MKT 3200                             | BUSINESS COMMUNICATIONS  | 3         |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I                                       | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO)                                  | 3         |
| General Education Course or Elective |  | 4         |

|  |   |            |
|--|---|------------|
| General Education Course or Elective         |   | 3          |
| <b>Credits</b>                               |   | <b>16</b>  |
| <b>Spring</b>                                |   |            |
| ACCT 2020                                    | PRINCIPLES OF ACCOUNTING II                     | 3          |
| BSAD 2130                                    | PRINCIPLES OF BUSINESS STATISTICS               | 3          |
| MKT 3310                                     | PRINCIPLES OF MARKETING <sup>3</sup>            | 3          |
| MGMT 3490                                    | MANAGING PEOPLE AND ORGANIZATIONS               | 3          |
| General Education Course or Elective         |   | 3          |
| <b>Credits</b>                               |   | <b>15</b>  |
| <b>Junior</b>                                |   |            |
| <b>Fall</b>                                  |   |            |
| LAWS 3930                                    | BUSINESS LAW FUNDAMENTALS                       | 3          |
| FNBK 3250                                    | PRINCIPLES OF FINANCIAL MANAGEMENT <sup>4</sup> | 3          |
| MGMT 4150                                    | GLOBAL BUSINESS MANAGEMENT                      | 3          |
| ECON 3600                                    | INTRODUCTION TO INTERNATIONAL ECONOMICS         | 3          |
| Second Concentration Course                  |   | 3          |
| <b>Credits</b>                               |   | <b>15</b>  |
| <b>Spring</b>                                |   |            |
| MGMT 3100                                    | MANAGEMENT INFORMATION SYSTEMS                  | 3          |
| MKT 3380                                     | INTERNATIONAL MARKETING                         | 3          |
| FNBK 3700                                    | INTERNATIONAL FINANCIAL MANAGEMENT              | 3          |
| General Education Course or Elective         |   | 3          |
| Second Concentration Course                  |   | 3          |
| <b>Credits</b>                               |   | <b>15</b>  |
| <b>Senior</b>                                |   |            |
| <b>Fall</b>                                  |   |            |
| SCMT 3500                                    | MANAGING OPERATIONS IN THE SUPPLY CHAIN         | 3          |
| General Education Course or Elective         |   | 3          |
| Second Speech <sup>5</sup>                   |   | 3          |
| Second Concentration Course                  |   | 3          |
| Second Concentration Course                  |   | 3          |
| <b>Credits</b>                               |   | <b>15</b>  |
| <b>Spring</b>                                |   |            |
| MGMT 4480                                    | CORPORATE AND BUSINESS STRATEGY                 | 3          |
| International Business Elective <sup>6</sup> |   | 3          |
| Second Concentration Course                  |   | 3          |
| Second Concentration Course                  |   | 3          |
| Elective                                     |   | 3          |
| <b>Credits</b>                               |   | <b>15</b>  |
| <b>Total Credits</b>                         |   | <b>120</b> |

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> Students with an International Business concentration must earn a grade of "C+" or better in MKT 3310 to meet the prerequisite for MKT 3380.

<sup>4</sup> Students with an International Business concentration must earn a grade of "C+" or better in FNBK 3250 to meet the prerequisite for FNBK 3700.

<sup>5</sup> For this requirement students must choose from the following list: MKT 3100, CMST 2120, CMST 3130, CMST 3140, CMST 3150, or CMST 3160.

<sup>6</sup> See DegreeWorks or Stellic for approved elective options.



This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

#### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Marketing Concentration

Students earning a concentration in marketing learn research skills necessary for discovering the needs or desires of their firm's target market. These skills enable marketers to develop a thorough understanding of their target market(s), the marketplace—whether local, national, global or virtual, the firm's competitors, and the competitive environment. Working together with other units in the firm, marketers design products and services that provide benefits and/or solve customer problems better or more efficiently than competitors' products. In other words, marketers contribute to the firm's competitive advantages to avoid being easily copied by competitors. Marketers design and implement strategic marketing plans in order to

1. Communicate effectively with the target market so customers understand the benefits offered by the firm relative to competitors;
2. Distribute products and services in ways that maximize customer satisfaction while simultaneously minimizing the firm's costs; and
3. Provide value to the target market so that customers are satisfied with the benefits received for the price paid, especially when compared to value available from competitors.

Students must complete MKT 3310 (<https://catalog.unomaha.edu/search/?P=MKT%203310>) with a C+ or above in order to take additional marketing courses, to complete the marketing concentration, or to complete the secondary concentration in marketing.

## BSBA Degree with Marketing Concentration Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                      |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                  |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                      |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |  |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the following:</b>  |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I (**)                                 |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (**)             |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                 |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| <b>All of the Following</b>   |  | <b>45</b> |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                     |           |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                      |           |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                             |           |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                            |           |

|           |   |
|-----------|---|
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                 |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                 |
| MGMT 3490 | MANAGING PEOPLE AND ORGANIZATIONS (^)       |
| LAWS 3930 | BUSINESS LAW FUNDAMENTALS (^)               |
| FNBK 3250 | PRINCIPLES OF FINANCIAL MANAGEMENT (^)      |
| MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS (^)          |
| SCMT 3500 | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^) |
| MGMT 4480 | CORPORATE AND BUSINESS STRATEGY (^)         |

\*INTERNATIONAL DIMENSION - 3 hrs

\*INTERNATIONAL DIMENSION - 3 hrs

\*Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student's degree audit.

#### Select 1 of the Following

3

|           |  |
|-----------|--|
| CMST 2120 | ARGUMENTATION AND DEBATE (**)                            |
| CMST 3130 | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |
| CMST 3140 | CONTEMPORARY PRESENTATIONS (^)                           |
| CMST 3150 | INTERCOLLEGIATE FORENSICS I (^)                          |
| CMST 3160 | INTERCOLLEGIATE FORENSICS II (^)                         |
| MKT 3100  | PROFESSIONAL SELLING (^)                                 |

#### Marketing Concentration Courses

##### All of the Following

9

|          |                          |
|----------|--------------------------|
| MKT 3100 | PROFESSIONAL SELLING (^) |
| MKT 4300 | MARKETING MANAGEMENT (^) |
| MKT 4340 | MARKETING RESEARCH (^)   |

##### Select 3 of the Following

9

|          |   |
|----------|---|
| MKT 3320 | CONSUMER BEHAVIOR (^)                       |
| MKT 3340 | OMNI CHANNEL MARKETING (^)                  |
| MKT 3350 | MARKETING SERVICE PRODUCTS (^)              |
| MKT 3360 | DIGITAL MARKETING COMMUNICATIONS (^)        |
| MKT 3370 | SOCIAL MEDIA MARKETING (^)                  |
| MKT 3380 | INTERNATIONAL MARKETING (^)                 |
| MKT 3400 | MARKETING INNOVATION                        |
| MKT 3410 | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (^) |
| MKT 3600 | BUSINESS ETHICS (^)                         |
| MKT 3610 | BUSINESS TO BUSINESS MARKETING (^)          |
| MKT 4000 | SPECIAL TOPICS IN MARKETING (^)             |
| MKT 4200 | CONSULTATIVE SELLING PRINCIPLES (^)         |
| MKT 4210 | SELLING FINANCIAL SERVICES (^)              |
| MKT 4220 | GLOBAL STRATEGIC ACCOUNT MANAGEMENT (^)     |
| MKT 4320 | SALES MANAGEMENT (^)                        |
| MKT 4360 | E-MARKETING (^)                             |
| MKT 4370 | MARKETING ANALYTICS (^)                     |
| MKT 4420 | BUSINESS DEMOGRAPHICS (^)                   |
| MKT 4500 | SPECIAL PROBLEMS IN MARKETING (^)           |
| MKT 4510 | MARKETING INTERNSHIP (^)                    |
| MKT 4720 | INNOVATION VENTURES (^)                     |
| MKT 4800 | HONORS STUDIES IN MARKETING (^)             |

|          |   |
|----------|---|
| MKT 4760 | SELLING IN AN ENTREPRENEURIAL CONTEXT (^) |
|----------|---|

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Secondary Concentration in Marketing Requirements

| Code                                       | Title                                   | Credits |
|--|---|---------|
| <b>12 Hours Required</b>                   |   |         |
| <b>All of the following - 3 Hours</b>      |   |         |
| MKT 3310                                   | PRINCIPLES OF MARKETING                 |         |
| <b>Select 1 of the Following - 3 Hours</b> |   |         |
| MKT 4300                                   | MARKETING MANAGEMENT                    |         |
| MKT 4340                                   | MARKETING RESEARCH                      |         |
| <b>Select 2 of the Following - 6 Hours</b> |   |         |
| MKT 3320                                   | CONSUMER BEHAVIOR                       |         |
| MKT 3340                                   | OMNI CHANNEL MARKETING                  |         |
| MKT 3350                                   | MARKETING SERVICE PRODUCTS              |         |
| MKT 3360                                   | DIGITAL MARKETING COMMUNICATIONS        |         |
| MKT 3370                                   | SOCIAL MEDIA MARKETING                  |         |
| MKT 3380                                   | INTERNATIONAL MARKETING                 |         |
| MKT 3400                                   | MARKETING INNOVATION                    |         |
| MKT 3410                                   | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT |         |
| MKT 3600                                   | BUSINESS ETHICS                         |         |
| MKT 3610                                   | BUSINESS TO BUSINESS MARKETING          |         |
| MKT 4000                                   | SPECIAL TOPICS IN MARKETING             |         |
| MKT 4200                                   | CONSULTATIVE SELLING PRINCIPLES         |         |
| MKT 4210                                   | SELLING FINANCIAL SERVICES              |         |
| MKT 4220                                   | GLOBAL STRATEGIC ACCOUNT MANAGEMENT     |         |
| MKT 4320                                   | SALES MANAGEMENT                        |         |
| MKT 4360                                   | E-MARKETING                             |         |
| MKT 4370                                   | MARKETING ANALYTICS                     |         |
| MKT 4420                                   | BUSINESS DEMOGRAPHICS                   |         |
| MKT 4510                                   | MARKETING INTERNSHIP                    |         |
| MKT 4720                                   | INNOVATION VENTURES                     |         |
| MKT 4800                                   | HONORS STUDIES IN MARKETING             |         |
| MKT 4760                                   | SELLING IN AN ENTREPRENEURIAL CONTEXT   |         |

Students must meet all prerequisites to enroll in MKT 3310 (<https://catalog.unomaha.edu/search/?P=MKT%203310>). For students who wish to complete a secondary concentration in marketing, at least one of the courses must be MKT 4300 (<https://catalog.unomaha.edu/search/?P=MKT%204300>) or MKT 4340 (<https://catalog.unomaha.edu/search/?P=MKT%204340>). For the remaining six (6) hours of upper-division (3000 or 4000 level) marketing courses, any course approved for the marketing concentration may also be used for the secondary concentration in marketing, with the exception of MKT 4500 (<https://catalog.unomaha.edu/search/?P=MKT%204500>). A grade of C (2.00) or better is required for a course to apply to the secondary concentration.

## BSBA Degree with Marketing Concentration Four Year Plan

### Freshman

| Fall                                 |  | Credits   |
|--------------------------------------|--|-----------|
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3         |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4         |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3         |
| General Education Course or Elective |  | 3         |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1         |
| <b>Credits</b>                       |  | <b>14</b> |

### Spring

|                                      |   |           |
|--------------------------------------|---|-----------|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

### Sophomore

| Fall                                 |                                 | Credits   |
|--------------------------------------|---------------------------------|-----------|
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3         |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3         |
| General Education Course or Elective |                                 | 4         |
| General Education Course or Elective |                                 | 3         |
| <b>Credits</b>                       |                                 | <b>16</b> |

### Spring

|                                      |                                      |           |
|--------------------------------------|--------------------------------------|-----------|
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II          | 3         |
| BSAD 2130                            | PRINCIPLES OF BUSINESS STATISTICS    | 3         |
| MKT 3310                             | PRINCIPLES OF MARKETING <sup>3</sup> | 3         |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS    | 3         |
| General Education Course or Elective |                                      | 3         |
| <b>Credits</b>                       |                                      | <b>15</b> |

### Junior

| Fall                                 |                                    | Credits   |
|--------------------------------------|------------------------------------|-----------|
| LAWS 3930                            | BUSINESS LAW FUNDAMENTALS          | 3         |
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT | 3         |
| MKT 3100                             | PROFESSIONAL SELLING               | 3         |
| General Education Course or Elective |                                    | 3         |
| Elective                             |                                    | 3         |
| <b>Credits</b>                       |                                    | <b>15</b> |

### Spring

|                           |                                |           |
|---------------------------|--------------------------------|-----------|
| MGMT 3100                 | MANAGEMENT INFORMATION SYSTEMS | 3         |
| MKT Elective <sup>4</sup> |                                | 3         |
| MKT Elective <sup>4</sup> |                                | 3         |
| Elective                  |                                | 3         |
| International Dimension   |                                | 3         |
| <b>Credits</b>            |                                | <b>15</b> |

### Senior

| Fall      |   | Credits |
|-----------|---|---------|
| SCMT 3500 | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3       |

|                           |                    |   |
|---------------------------|--------------------|---|
| MKT 4340                  | MARKETING RESEARCH | 3 |
| MKT Elective <sup>4</sup> |                    | 3 |
| International Dimension   |                    | 3 |
| Elective                  |                    | 3 |

| Credits |  | 15 |
|---------|--|----|
|---------|--|----|

### Spring

|           |                                 |   |
|-----------|---------------------------------|---|
| MGMT 4480 | CORPORATE AND BUSINESS STRATEGY | 3 |
| MKT 4300  | MARKETING MANAGEMENT            | 3 |
| Elective  |                                 | 3 |
| Elective  |                                 | 3 |
| Elective  |                                 | 3 |

| Credits |  | 15 |
|---------|--|----|
|---------|--|----|

| Total Credits |  | 120 |
|---------------|--|-----|
|---------------|--|-----|

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> Students with a Marketing concentration must earn a grade of "C+" or better in MKT 3310.

<sup>4</sup> See DegreeWorks or Stellic for approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements:

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

### Graduation Requirements:

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## Sales Concentration

The Sales concentration provides students with the opportunity to develop communication, interpersonal, decision-making, and critical-thinking skills that will enable them to effectively carry out sales functions across a

variety of contexts, career paths, and industries. The Sales concentration is specifically designed to develop knowledge and skills in relational and consultative selling.

Sales concentration and Sales secondary concentration students are required to earn a "C+" or better in MKT 3310 or MKT 3100.

## BSBA Degree with Sales Concentration Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                      |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                  |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                      |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |  |           |
| Must complete all MAJOR REQUIREMENTS with a grade of C (2.0) or higher  |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the following:</b>  |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I (** ^)                               |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY (** ^)           |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS (**)                                 |           |
| <b>Select 1 of the Following</b>  |  | <b>3</b>  |
| MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (^)    |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| <b>All of the following</b>   |  | <b>45</b> |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                     |           |

|   |  |          |
|---|--|----------|
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                   |          |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS (^)                    |          |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                           |          |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                          |          |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                              |          |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                              |          |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                    |          |
| LAWS 3930   | BUSINESS LAW FUNDAMENTALS (^)                            |          |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                   |          |
| MGMT 3100   | MANAGEMENT INFORMATION SYSTEMS (^)                       |          |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)              |          |
| MGMT 4480   | CORPORATE AND BUSINESS STRATEGY (^)                      |          |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |          |
| *INTERNATIONAL DIMENSION - 3 hrs  |  |          |
| *Students must complete at least six hours of course work beyond the general education Cultural Knowledge requirement with a global perspective. A list of approved International Dimension courses can be found on the student’s degree audit. |  |          |
| <b>Select 1 of the Following</b>  |  | <b>3</b> |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                            |          |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |          |
| CMST 3140   | CONTEMPORARY PRESENTATIONS (^)                           |          |
| CMST 3150   | INTERCOLLEGIATE FORENSICS I (^)                          |          |
| CMST 3160   | INTERCOLLEGIATE FORENSICS II (^)                         |          |
| MKT 3100  | PROFESSIONAL SELLING (^)                                 |          |
| <b>Sales Concentration Courses</b>  |  |          |
| <b>All of the Following</b>   |  | <b>9</b> |
| MKT 3100  | PROFESSIONAL SELLING (^)                                 |          |
| MKT 4200  | CONSULTATIVE SELLING PRINCIPLES (^)                      |          |
| MKT 4320  | SALES MANAGEMENT (^)                                     |          |
| <b>Select 3 of the Following</b>  |  | <b>9</b> |
| MKT 4760  | SELLING IN AN ENTREPRENEURIAL CONTEXT (^)                |          |
| MKT 4510  | MARKETING INTERNSHIP (^)                                 |          |
| MKT 4220  | GLOBAL STRATEGIC ACCOUNT MANAGEMENT (^)                  |          |
| MKT 4210  | SELLING FINANCIAL SERVICES (^)                           |          |
| MKT 3400  | MARKETING INNOVATION (^)                                 |          |
| MKT 3610  | BUSINESS TO BUSINESS MARKETING (^)                       |          |
| MKT 3600  | BUSINESS ETHICS (^)                                      |          |
| MKT 3350  | MARKETING SERVICE PRODUCTS (^)                           |          |
| MKT 3340  | OMNI CHANNEL MARKETING (^)                               |          |
| MKT 3320  | CONSUMER BEHAVIOR (^)                                    |          |
| MKT 4000  | SPECIAL TOPICS IN MARKETING (^ Sales)                    |          |
| SCMT 4450   | MANAGERIAL NEGOTIATION STRATEGIES (^)                    |          |

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Secondary Concentration in Sales Requirements

| Code                                       | Title                                 | Credits |
|--|---------------------------------------|---------|
| <b>12 Hours Required</b>                   |                                       |         |
| <b>All of the Following - 3 Hours</b>      |                                       |         |
| MKT 3100                                   | PROFESSIONAL SELLING                  |         |
| <b>Select 3 of the Following - 9 Hours</b> |                                       |         |
| MKT 4760                                   | SELLING IN AN ENTREPRENEURIAL CONTEXT |         |
| MKT 3400                                   | MARKETING INNOVATION                  |         |
| MKT 4510                                   | MARKETING INTERNSHIP                  |         |
| MKT 4220                                   | GLOBAL STRATEGIC ACCOUNT MANAGEMENT   |         |
| MKT 4200                                   | CONSULTATIVE SELLING PRINCIPLES       |         |
| MKT 4320                                   | SALES MANAGEMENT                      |         |
| MKT 4210                                   | SELLING FINANCIAL SERVICES            |         |
| MKT 3610                                   | BUSINESS TO BUSINESS MARKETING        |         |
| MKT 3600                                   | BUSINESS ETHICS                       |         |
| MKT 3350                                   | MARKETING SERVICE PRODUCTS            |         |
| MKT 3340                                   | OMNI CHANNEL MARKETING                |         |
| MKT 3320                                   | CONSUMER BEHAVIOR                     |         |
| MKT 4000                                   | SPECIAL TOPICS IN MARKETING (Sales)   |         |
| SCMT 4450                                  | MANAGERIAL NEGOTIATION STRATEGIES     |         |

## BSBA Degree with Sales Concentration Four Year Plan

### Freshman

|                                      |  |                |
|--------------------------------------|--|----------------|
| <b>Fall</b>                          |  | <b>Credits</b> |
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>                               | 3              |
| MATH 1300                            | COLLEGE ALGEBRA WITH SUPPORT <sup>2</sup>                        | 4              |
| CMST 1110                            | PUBLIC SPEAKING FUNDS  | 3              |
| General Education Course or Elective |  | 3              |
| BSAD 1100                            | BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (Recommended) | 1              |
| <b>Credits</b>                       |  | <b>14</b>      |

### Spring

|                                      |   |           |
|--------------------------------------|---|-----------|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY           | 3         |
| MATH 1370                            | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)                     | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

### Sophomore

|                                      |                                 |           |
|--------------------------------------|---------------------------------|-----------|
| <b>Fall</b>                          |                                 |           |
| MKT 3200                             | BUSINESS COMMUNICATIONS         | 3         |
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I      | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO) | 3         |
| General Education Course or Elective |                                 | 4         |
| General Education Course or Elective |                                 | 3         |
| <b>Credits</b>                       |                                 | <b>16</b> |

### Spring

|           |                                   |   |
|-----------|-----------------------------------|---|
| ACCT 2020 | PRINCIPLES OF ACCOUNTING II       | 3 |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS | 3 |

|                                      |                                      |   |
|--------------------------------------|--------------------------------------|---|
| MKT 3310                             | PRINCIPLES OF MARKETING <sup>3</sup> | 3 |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS    | 3 |
| General Education Course or Elective |                                      | 3 |

**Credits 15**

### Junior

#### Fall

|                                      |                                    |   |
|--------------------------------------|------------------------------------|---|
| FNBK 3250                            | PRINCIPLES OF FINANCIAL MANAGEMENT | 3 |
| LAWS 3930                            | BUSINESS LAW FUNDAMENTALS          | 3 |
| MKT 3100                             | PROFESSIONAL SELLING <sup>4</sup>  | 3 |
| General Education Course or Elective |                                    | 3 |
| Elective                             |                                    | 3 |

**Credits 15**

#### Spring

|                             |                                |   |
|-----------------------------|--------------------------------|---|
| MGMT 3100                   | MANAGEMENT INFORMATION SYSTEMS | 3 |
| International Dimension     |                                | 3 |
| MKT 4320                    | SALES MANAGEMENT               | 3 |
| Sales Elective <sup>5</sup> |                                | 3 |
| Elective                    |                                | 3 |

**Credits 15**

### Senior

#### Fall

|                             |   |   |
|-----------------------------|---|---|
| MKT 4200                    | CONSULTATIVE SELLING PRINCIPLES         | 3 |
| SCMT 3500                   | MANAGING OPERATIONS IN THE SUPPLY CHAIN | 3 |
| Sales Elective <sup>5</sup> |   | 3 |
| International Dimension     |   | 3 |
| Elective                    |   | 3 |

**Credits 15**

#### Spring

|                             |                                 |   |
|-----------------------------|---------------------------------|---|
| MGMT 4480                   | CORPORATE AND BUSINESS STRATEGY | 3 |
| Sales Elective <sup>5</sup> |                                 | 3 |
| Elective                    |                                 | 3 |
| Elective                    |                                 | 3 |
| Elective                    |                                 | 3 |

**Credits 15**

**Total Credits 120**

<sup>1</sup> Requires English Composition Placement

<sup>2</sup> This course may or may not be required depending on Math Placement.

<sup>3</sup> Students with a Sales concentration must earn a grade of "C+" or better in MKT 3310.

<sup>4</sup> Students with a Sales concentration must earn a grade of "C+" or better in MKT 3100.

<sup>5</sup> See DegreeWorks or Stellic for approved elective options.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for



the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

**\*\*Transfer credit or placement exam scores may change suggested plan of study**

#### **GPA Requirements:**

Courses within the College of Business require students to obtain a minimum NU GPA of 2.5 or better.

#### **Graduation Requirements:**

- Students must earn a minimum of 120 credit hours for a BSBA.
- 42 of those credit hours must be in upper division courses.
- For a BSBA business core, BSBA concentration, or business elective course to fulfill BSBA requirements, it must be taken on a letter-grade basis and the student must earn a grade of "C" (2.0) or higher.
- CBA students must earn a minimum NU GPA of 2.50 and a minimum Business GPA of 2.50. If students are earning an accounting concentration or secondary concentration, a minimum upper division accounting GPA of 2.50 is additionally required.

## **College of Communication, Fine Arts and Media**

### **College Vision Statement**

The College of Communication, Fine Arts and Media (CFAM) is united by its common conviction that imagination and human communication are inseparable aspects of the same intellectual process. Through innovative and traditional teaching and the use of emerging technologies, the college promotes learning, research, scholarship, creative activity, and service to the profession and to the broader community in all aspects of human communication.

Central to the college's educational mission is the instruction of students in the essential, practical and theoretical knowledge that they will need to succeed in their chosen disciplines. Through its diverse outreach activities, the college is equally committed to the engagement of a broad constituency. The college makes important contributions to the cultural growth and well-being of the people of the region and prepares students to participate in a global community.

## **General Information**

### **Overview of Degree Programs**

The college is structured as three distinct schools: the School of the Arts (Art & Art History, Theatre, Writer's Workshop), the School of Communication and the School of Music.

The College of Communication, Fine Arts and Media (CFAM) offers the following degree programs:

- Bachelor of Arts
- Bachelor of Fine Arts
- Bachelor of Music
- Bachelor of Science
- Graduate Degrees (offered through Graduate Studies)

## **Accreditation Information**

| Major                              | Degree   | Accreditation Body  |
|------------------------------------|----------|---|
| Art History                        | BA       | National Association of Schools of Art and Design (NASAD)   |
| Music                              | BA       | National Association of Music (NASM)  |
| Music Conducting                   | MM       | National Association of Schools of Music (NASM)   |
| Music Education                    | BM       | - National Association of Schools of Music (NASM) - Association for Advancing Quality in Educator Preparation (AAQEP) - Nebraska Department of Education          |
| Music Education                    | MM       | National Association of Schools of Music (NASM)   |
| Music Performance                  | BM MM    | National Association of Schools of Music (NASM)   |
| Studio Art                         | BASA BFA | National Association of Schools of Art and Design (NASAD)   |
| Studio Art with K-12 Certification | BASA BFA | - National Association of Schools of Art and Design (NASAD) - Association for Advancing Quality in Educator Preparation (AAQEP)- Nebraska Department of Education |

## **Program Contact Information**

College of Communication, Fine Arts and Media Dean's Office:  
402.554.3857

Program Website (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/>)

## **Admission Requirements**

Admission to programs in the College of Communication, Fine Arts and Media follow regular admission procedures of the University outlined in the current undergraduate catalog. The application deadline for admission to a degree seeking program is August 1 for fall semester, December 1 for spring semester. Student seeking a degree in music should also consult the School of Music website (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/music/about-us/area-pages/>) for additional information on admission to the music program.

Students who wish to transfer into CFAM from another college within the University must obtain written permission from and meet with a CFAM Dean's Office advisor. A minimum cumulative grade point average (GPA) of 2.25 is required to transfer into the college.

# Academic Requirements for the College Degrees

## Number of Hours to Graduate

Students must complete a minimum of 120 semester hours of college credit toward the degree of Bachelor of Science in Communication, Bachelor of Arts in Communication, Bachelor of Arts in Art History, Bachelor of Arts in Studio Art, Bachelor of Fine Arts (Studio Art and Creative Writing), Bachelor of Arts in Theatre, Bachelor of Arts in Music or Bachelor of Music. The minimum credit hour requirement for students in art or music seeking K-12 certification may vary according to current guidelines for teacher certification. Students must maintain close contact with an advisor each semester to insure progress toward fulfillment of their course of study. No student may count more than 87 semester hours of credit in any one discipline toward graduation. Actual limits are determined by faculty in the various disciplines.

## General Education Requirements

Students are required to complete the UNO General Education requirements. Specific information about general education can be found here (<https://www.unomaha.edu/general-education/overview/>).

Academic advisors can provide information about the specific course required for each degree program.

## Foreign Language Requirement for BA degrees in Music, Theater, and Studio Art degrees

While Bachelor of Arts degrees typically require foreign language as part of the degree requirements, students in music, theatre, and studio arts are exempt from this requirement.

## Minimum GPA/Additional Requirements

All students who have not yet earned any college credit and who are eligible to enter the university are accepted for admission to the college. Students who are seeking a degree within the School of Music are also required to complete an entrance audition for admission into the music program.

Admission of transfer students or students who have previously been enrolled at UNO is evaluated on an individual basis. A 2.25 grade point average in previous course work is required.

Application deadline for admission: August 1 for fall semester, December 1 for spring semester

## Transfer Credit Policy

Students may apply no more than 96 quarter hours (64 semester hours), transferred from a two year institution, towards a UNO bachelor's degree. Academic advisors retain the right to accept or reject courses based on their transferability and validity to fulfill major requirements.

## Unacceptable Credits

Credits in any courses classified as "remedial" or courses in other colleges of the university not approved by the College of Communication, Fine Arts and Media faculty may not be applied toward degrees offered by CFAM.

## Other types of transfer credits

Information on credit for Advanced Placement Credit, American Council of Education (ACE) Credit, College Level Examination Credit, Military Credit, Retroactive Credit, International Baccalaureate, or Cambridge International can be found here

## Placement Exams and Credit by Department Policies/Practices

At UNO, placement exams may be used to help ensure that you enroll in the correct courses based on your academic skill level. Information

on placement exams can be found here (<https://www.unomaha.edu/enrollment-management/testing-center/information.php>).

## Residency Requirement

Thirty (30) of the last 36 hours required for the degree must be registered for and completed at the University of Nebraska at Omaha

## Quality of Work

A grade of "C" or higher will be required for any major course accepted for any College of Communication, Fine Arts and Media degree requirement. All students must maintain a minimum 2.0 grade point average (GPA) in all course work, including work transferred from other institutions, to remain in good standing in the college.

The School of Communication requires students to earn a minimum of "C" in all major course work. Furthermore, students who take sophomore level or above journalism and media communication courses, or junior level or above communication studies courses must maintain at least a 2.25 cumulative GPA.

The School of the Arts requires students to earn a minimum of "C" in all major course work. Students pursuing the BFA in Studio Arts must maintain a 3.0 GPA in all art courses including the BFA sequence. Students seeking Art, K-12 certification must adhere to the GPA/grading standards set for the UNO Educator Preparation Program.

The School of Music requires a 2.5 GPA in all music courses. Students enrolled in the Bachelor of Music, performance concentration must maintain a 3.0 average in their major applied field. Students seeking K-12 certification must adhere to the GPA/grading standards set for the UNO Educator Preparation Program

All grades reported by the faculty to the registrar become a part of the student's permanent record and are included in computation of the cumulative grade point average, regardless of the total number required for the degree.

## Good Academic Standing Policy

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Credit/No Credit (CR/NC) Grades

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Completion of Incomplete Grade

Students have one semester after an incomplete is awarded to complete the course work. After this, the grade changes to a withdrawal. Students who complete the required course work outside of the allotted time frame may still receive credit by re-enrolling and paying tuition for the course. Exceptions are made when a student has been working in good faith continuously to complete the course work, with no breaks in work submitted, or within contracted terms determined by the faculty member.

## Repeatable Grades/Courses

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Appeal Process

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Grade Appeal Policy

Undergraduate students wanting to appeal a grade received in a College of Communication, Fine Arts and Media unit course should first discuss the matter directly with the instructor. If a satisfactory agreement is not reached, the student may submit an appeal in writing to the chair/director of the academic unit in which the course is offered.

If the student and chair/director of the academic unit do not reach a satisfactory agreement, the student may submit an appeal in writing to the Dean of the College of Communication, Fine Arts and Media, at which point the appeal may be referred to the Education Policy Committee of the College for review. The student's written appeal to the Dean must be made by the end of the following semester after the academic unit's decision. For example, if the academic unit's decision is made in the fall semester, the student has until the end of the spring semester to submit a written appeal. If the Education Policy Committee of the College reviews the appeal it may request additional information from the student, the instructor, the academic unit or its chair/director as needed. Education Policy Committee members who have voted on the case at the academic unit level must recuse themselves from the Committee's vote. Upon making a decision, the Education Policy Committee will send its recommendation to the Dean's office in writing, and the Dean's office will notify the student of the College's decision.

## Academic Amnesty

A student enrolled in the College of Communication, Fine Arts and Media may request to have one or two semesters (taken at UNO, UNL, and/or UNK) removed from their cumulative grade point average and degree consideration by petitioning for academic amnesty. The form for applying for Academic Amnesty can be found here ([https://www.unomaha.edu/college-of-communication-fine-arts-and-media/\\_files/docs/AcademicAmnestyPetition.pdf](https://www.unomaha.edu/college-of-communication-fine-arts-and-media/_files/docs/AcademicAmnestyPetition.pdf))

The following conditions for academic amnesty apply:

- Have been out of the Nebraska system for at least one calendar year (12-month period).
- Have substandard coursework ("F" or "D" grades) earned within the University of Nebraska system (UNO, UNL, UNK, UNMC) prior to the year out (substandard grades earned after the year out will not be included in the Academic Amnesty contract).
- Be admitted as a degree-seeking student at the University of Nebraska.

Requirements:

- Academic Amnesty will begin with the first course(s) taken upon return to UNO.
- Students may apply for Academic Amnesty at any time after taking the one-year break.
- After returning from the one-year break, demonstrate academic success in new UNO coursework.
- Academic success may be demonstrated by one of the following:
  - Completing at least 12 semester hours (simultaneous or sequential) with a minimum of 3.0 cumulative GPA,
  - Completing at least 24 semester hours (simultaneous or sequential) with a minimum of 2.5 cumulative GPA.
- Students must maintain continuous enrollment (at least six (6) semester hours completed within any 12-month period).
- Students will work with their academic advisor to select the coursework to be amnestyed.
- Students must inform an academic advisor when the Academic Amnesty requirements are met.

Notes:

- All amnestyed coursework will remain on the student's academic record (transcript); however, the courses will not be included in calculation of the student's grade point average. Courses will be annotated "Academic Amnesty Excluded from GPA" on the transcript.
- Once Academic Amnesty is granted, students will not be eligible for honors at graduation. Students are still eligible for Dean's List and Chancellor's List honors.
- While demonstrating academic success, no changes are made to the student's academic record. If a student's cumulative GPA is still below standard, the students will continue to be reported as "continued on probation." Should the student revert to substandard academic performance while working on Academic Amnesty, the student can still be suspended. Academic Amnesty is intended to provide relief from the past without providing immunity from future substandard academic performance.
- Students must still meet all university and college requirements to graduate.

## Academic Probation and Suspension

[https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/\(p.37\)](https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/(p.37))

## Reinstatement Policy Following Academic Suspension

[https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/\(p.37\)](https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/(p.37))

## Academic Advising

Each student enrolled in a College of Communication, Fine Arts and Media degree program is encouraged to review requirements for their intended degree with an assigned academic advisor. (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/academics/advising.php>) Additionally, students can contact academic advisors via MavCONNECT (<https://www.unomaha.edu/enterprise-systems/mavconnect/>). Review of specific degree requirements should be conducted with an advisor each semester in preparation for and prior to each enrollment/registration period.

## Advising Holds

[https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/\(p.30\)](https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/(p.30))

## Student Holds

[https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/\(p.30\)](https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/(p.30))

## Senior Check

Students who have completed 91+ credit hours toward their chosen degree program are required to have a senior check completed by an academic advisor. This process will assure the student's graduation date, assuming satisfactory completion of all approved courses. All substitutions and/or changes to a student's degree requirements must be noted in writing during the advising process. Should this procedure not be followed, responsibility for meeting graduation requirements falls on the student. Errors made could prevent timely graduation.

# School of Communication

## Mission

The School of Communication provides a student-centered, dynamic environment designed to elevate, empower, and engage students to become skilled, ethical citizens and professionals who can excel in diverse local and global communities.

## Vision

Our vision is to be a recognized leader in innovative teaching, leading-edge research/creative activity, and community-engagement initiatives. We will achieve this by supporting and attracting exceptional faculty and outstanding undergraduate and graduate students from within and outside the metropolitan area.

## Other information

For School of Communication majors, courses that have been applied toward general education requirements may also be applied to the major, minor, or second-field of concentration requirements, with the exception of the courses used to fulfill the general education oral communication requirement.

All students who take most sophomore-level or above (2000-, 3000- or 4000-level) journalism and media communication courses (JMC), or junior-level or above (3000- or 4000-level) communication studies (CMST) courses, are required to have a cumulative grade-point average of at least 2.25. Any exceptions will be by written permission of the school. Students will receive a worksheet listing requirements to track their progress toward a degree.

Communication Studies students may not complete more than a total of three hours of credit for forensics activities (CMST 3150 and CMST 3160) or more than a total of six hours of credit for Internships and Independent Study. Exceptions to these limits can be made by the School of Communication director.

Journalism and Media Communication students may not complete more than a total of six hours of credit for Internships and Independent Study. Exceptions to these limits may be made by the School of Communication director.

Students may double major within the School of Communication by completing the requirements for both CMST and JMC programs. Some classes, such as JMC 4970 and CMST 4970 Internship Experience, may count toward both majors with advisor approval.

The Bachelor of Arts in Communication (BAC) degree includes a foreign language requirement (16 credit hours or high school equivalent), while the Bachelor of Science in Communication (BSC) degree includes a minimum of 15 hours in a second field of study (or a minor as specified by a department or school). A second field of study is defined as courses within a single department of the university or as courses that all relate to a single subject area or topic. The second field of study must include at least six hours of upper-level courses (3000- or 4000-level) except as specifically exempted in writing by a school advisor or the school director.

Students must earn at least a "C" in all courses required for the major, as well as in all foreign language courses required for the Bachelor of Arts in Communication and in all classes in the second field of study (or minor) required for the Bachelor of Science in Communication.

## Contact

The School of Communication office areas are located in Arts and Sciences Hall Room 140, Room 107, Room 108, and Room 105. Phone: 402.554.2600 or 402.554.2520.

Website (<http://communication.unomaha.edu/>)

## Degrees Offered

The School of Communication offers Bachelor of Arts and Bachelor of Science degree programs in the Communication Studies (course prefix is CMST) and Journalism and Media Communication (course prefix is JMC) programs.

- Communication Studies, Bachelor of Arts (p. 433)
- Communication Studies, Bachelor of Science (p. 435)
- Journalism and Media Communication, Bachelor of Arts (p. 436)
- Journalism and Media Communication, Bachelor of Science (p. 441)

## Communication Studies

The requirements for the Communication Studies program include 57 credits, plus 15 credits in a second field of study for a Bachelor of Science in Communication and 16 hours in a foreign language for a Bachelor of Arts in Communication. A total of 120 credits are required, including general education requirements and general electives.

## Journalism and Media Communication

The requirements for the Journalism and Media Communication program include 57 credits, plus 15 credits in a second field of study for a Bachelor of Science in Communication degree and 16 hours in a foreign language for a Bachelor of Arts in Communication degree. A total of 120 credits are required, including general education requirements and general electives.

Journalism and Media Communication students must select one of two concentrations: Emerging Media or Public Relations and Advertising.

## Minors Offered

- Communication Studies Minor (p. 436)
- Journalism and Media Communication Minor (p. 445)
- Public Relations and Advertising (PR/Ad) Minor (p. 445)

## Communication Studies

Effective communication, whether written, spoken or non-verbal is essential for success in any career field and Communication Studies students develop and hone these critical skills. Besides strong verbal, nonverbal, and written communication skills, Communication Studies students also develop critical thinking skills including synthesizing information, building a cohesive argument, and analytical proficiency. Students may also apply their classroom knowledge externally by completing internships with nationally and internationally recognized organizations, both profit and non-profit.

### Possible careers include:

- Corporate/Organizational Trainer & Facilitator
- Talent developer
- Mediator
- Project Manager
- Human Resources director
- Customer service industry
- Executive director-nonprofit & for profit
- Fundraising/Foundation Officer
- Event planner
- Property Manager
- Corporate Recruiter

## Journalism and Media Communication

Journalism and Media Communication provides a comprehensive education in emerging media and public relations and advertising. Coursework in media writing, media production principles, media theory, and communication research provide a strong foundation for any form of mediated communication career.

Beyond the classroom, students get hands-on experiences working in the field through internships; service learning projects; production of *The Omaha News* and *Consider This* - programs produced in the UNO Television studio; working both on-air and behind the scenes at MavRadio (<https://www.mavradio.fm/>) - UNO's student-run radio station; broadcasts of UNO athletic events held at Baxter Arena; and working directly with professional clients the PR and Advertising Capstone course. Regardless of the path a student chooses, the JMC major can lead to multiple career opportunities.

### Possible careers include:

- Content creator and influencer
- Strategic communication specialist
- Journalist or magazine writer or editor
- Social media marketer
- Corporate communication director
- Nonprofit or government communication director
- Sports media marketer or broadcaster
- Podcaster
- News broadcaster or producer
- Media researcher

## Communication Studies, Bachelor of Arts

### Communication Studies, Bachelor of Arts in Communication Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |

|   |  |           |
|---|--|-----------|
| STAT 1530   | ELEMENTARY STATISTICS                                    |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 57 Hours Required</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires a pre-requisites(s)  |  |           |
| Minimum of "C" required   |  |           |
| <b>All of the following:</b>  |  | <b>18</b> |
| CMST 1400   | EXPLORING COMMUNICATION STUDIES                          |           |
| CMST 2100   | INTRODUCTION TO COMMUNICATION THEORY                     |           |
| CMST 2300   | INTERGROUP DIALOGUE (**)                                 |           |
| CMST 3340   | RHETORICAL CRITICISM (^)                                 |           |
| CMST 3350   | COMMUNICATION RESEARCH (^)                               |           |
| CMST 4940   | COMMUNICATION STUDIES CAPSTONE SEMINAR (^)               |           |
| <b>Area 1 - Select 4 of the following (only 3 credits can be 1000/2000 lower division)</b>  |  | <b>12</b> |
| CMST 2010   | INTERPERSONAL COMMUNICATION (**)                         |           |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                            |           |
| CMST 2410   | SMALL GROUP COMMUNICATION AND LEADERSHIP (**)            |           |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |           |
| CMST 3520   | INTERVIEWING   |           |
| CMST 4130   | FAMILY COMMUNICATION (^)                                 |           |
| CMST 4150   | ORGANIZATIONAL TRAINING AND DEVELOPMENT (^)              |           |
| CMST 4160   | COMMUNICATION FOR INSTRUCTIONAL SETTINGS                 |           |
| CMST 4800   | CONFLICT MEDIATION (^)                                   |           |
| <b>Area 2 - Select 3 of the following:</b>  |  | <b>9</b>  |
| CMST 4120   | COMMUNICATION AND SOCIAL PROTEST (^)                     |           |
| CMST 4140   | COMMUNICATION AND HUMAN RELATIONSHIPS (^)                |           |
| CMST 4170   | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP              |           |
| CMST 4180   | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS     |           |
| CMST 4190   | COMPUTER-MEDIATED COMMUNICATION                          |           |
| CMST 4220   | HEALTH COMMUNICATION                                     |           |
| CMST 4300   | RISK AND CRISIS COMMUNICATION (^)                        |           |
| CMST 4510   | PERSUASION AND SOCIAL INFLUENCE                          |           |
| CMST 4700   | INTERPERSONAL CONFLICT                                   |           |
| JMC 4310  | MEDIA & POLITICS   |           |
| <b>Area 3 - Select 3 of the following:</b>  |  | <b>9</b>  |
| CMST 3300   | LEADERSHIP FOR INTERGROUP DIALOGUE (^)                   |           |



|   |   |           |
|---|---|-----------|
| CMST 3530   | INTERCULTURAL COMMUNICATION & POWER (** ^)            |           |
| CMST 3750   | GENDER AND COMMUNICATION (**)                         |           |
| CMST 4570   | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (**) |           |
| CMST 4580   | COMMUNICATING RACE, ETHNICITY & IDENTITY (** ^)       |           |
| <b>Select 9 credits CMST classes (only 3 credits can be 1000/2000 lower division)</b> |   | <b>9</b>  |
| <b>Bachelor of Arts in Communication Language requirement</b>                         |   | <b>16</b> |
| <b>ELECTIVES</b>  |   |           |
| Elective hours as required to reach a total of 120 hours                              |   |           |

## Communication Studies, Bachelor of Arts in Communication Four Year Plan

### Freshman

| Fall                      |  | Credits   |
|---------------------------|--|-----------|
| CMST 1400                 | EXPLORING COMMUNICATION STUDIES                      | 3         |
| Language Requirement 1    |  | 5         |
| Quantitative Literacy     |  | 3         |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| <b>Credits</b>            |  | <b>14</b> |

### Spring

|                        |                                      |           |
|------------------------|--------------------------------------|-----------|
| CMST 2100              | INTRODUCTION TO COMMUNICATION THEORY | 3         |
| Language Requirement 2 |                                      | 5         |
| Data Literacy Course   |                                      | 3         |
| ENGL 1150              | ENGLISH COMPOSITION I                | 3         |
| <b>Credits</b>         |                                      | <b>14</b> |

### Sophomore

| Fall                           |   | Credits   |
|--------------------------------|---|-----------|
| CMST 2300                      | INTERGROUP DIALOGUE                       | 3         |
| Language Requirement 3         |   | 3         |
| Natural/Physical Science w/lab |   | 4         |
| ENGL 1160                      | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Cultural Knowledge Course      |   | 3         |
| <b>Credits</b>                 |   | <b>16</b> |

### Spring

|                                       |  |           |
|---------------------------------------|--|-----------|
| CMST 3340                             | RHETORICAL CRITICISM (Civic Knowledge and Engagement Gen Ed) | 3         |
| CMST Area 1 Lower Level Course        |  | 3         |
| Civic Knowledge and Engagement Course |  | 3         |
| Humanities Course                     |  | 3         |
| Language Requirement                  |  | 3         |
| <b>Credits</b>                        |  | <b>15</b> |

### Junior

| Fall                                 |                        | Credits   |
|--------------------------------------|------------------------|-----------|
| CMST 3350                            | COMMUNICATION RESEARCH | 3         |
| Social Science Gen Ed                |                        | 3         |
| CMST Area 1 3000/4000 Level Course 2 |                        | 3         |
| CMST Area 3 3000/4000 level course 1 |                        | 3         |
| Arts Course                          |                        | 3         |
| <b>Credits</b>                       |                        | <b>15</b> |

### Spring

|                                      |  |           |
|--------------------------------------|--|-----------|
| CMST Area 1 3000/4000 Level Course 3 |  | 3         |
| CMST Area 2 2000/4000 Level Course 1 |  | 3         |
| CMST Area 2 3000/4000 Level Course 2 |  | 3         |
| CMST Area 3 3000/4000 Level Course 2 |  | 3         |
| CMST Elective Course                 |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

### Senior

#### Fall

|                                      |  |           |
|--------------------------------------|--|-----------|
| CMST Area 1 3000/4000 Level Course 4 |  | 3         |
| CMST Area 2 3000/4000 Level Course 3 |  | 3         |
| CMST Area 3 3000/4000 Level Course 3 |  | 3         |
| CMST 3000/4000 Level Elective        |  | 3         |
| General Education Course             |  | 4         |
| <b>Credits</b>                       |  | <b>16</b> |

#### Spring

|                               |  |            |
|-------------------------------|--|------------|
| CMST 4940                     | COMMUNICATION STUDIES CAPSTONE SEMINAR | 3          |
| CMST 3000/4000 Level Elective |  | 3          |
| General Elective Course       |  | 3          |
| General Elective Course       |  | 3          |
| General Elective Course       |  | 3          |
| <b>Credits</b>                |  | <b>15</b>  |
| <b>Total Credits</b>          |  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

# Communication Studies, Bachelor of Science

## Communication Studies, Bachelor of Science in Communication Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 57 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>18</b> |
| CMST 1400   | EXPLORING COMMUNICATION STUDIES                         |           |
| CMST 2100   | INTRODUCTION TO COMMUNICATION THEORY                    |           |
| CMST 2300   | INTERGROUP DIALOGUE (**)                                |           |
| CMST 3340   | RHETORICAL CRITICISM (^)                                |           |
| CMST 3350   | COMMUNICATION RESEARCH (^)                              |           |
| CMST 4940   | COMMUNICATION STUDIES CAPSTONE SEMINAR (^)              |           |
| <b>Area 1 - Select 4 of the following (only 3 credits can be 1000/2000 lower division)</b>  |   | <b>12</b> |
| CMST 2010   | INTERPERSONAL COMMUNICATION (**)                        |           |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                           |           |

|  |  |                |
|--|--|----------------|
| CMST 2410  | SMALL GROUP COMMUNICATION AND LEADERSHIP (**)            |                |
| CMST 3130  | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |                |
| CMST 3520  | INTERVIEWING   |                |
| CMST 4130  | FAMILY COMMUNICATION (^)                                 |                |
| CMST 4150  | ORGANIZATIONAL TRAINING AND DEVELOPMENT                  |                |
| CMST 4160  | COMMUNICATION FOR INSTRUCTIONAL SETTINGS                 |                |
| CMST 4800  | CONFLICT MEDIATION (^)                                   |                |
| <b>Area 2 - Select 3 of the following:</b>   |  | <b>9</b>       |
| CMST 4120  | COMMUNICATION AND SOCIAL PROTEST (^)                     |                |
| CMST 4140  | COMMUNICATION AND HUMAN RELATIONSHIPS (^)                |                |
| CMST 4170  | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP              |                |
| CMST 4180  | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS     |                |
| CMST 4190  | COMPUTER-MEDIATED COMMUNICATION                          |                |
| CMST 4220  | HEALTH COMMUNICATION                                     |                |
| CMST 4300  | RISK AND CRISIS COMMUNICATION (^)                        |                |
| CMST 4510  | PERSUASION AND SOCIAL INFLUENCE                          |                |
| CMST 4700  | INTERPERSONAL CONFLICT                                   |                |
| JMC 4310   | MEDIA & POLITICS   |                |
| <b>Area 3 - Select 3 of the following:</b>   |  | <b>9</b>       |
| CMST 3300  | LEADERSHIP FOR INTERGROUP DIALOGUE (^)                   |                |
| CMST 3530  | INTERCULTURAL COMMUNICATION & POWER (** ^)               |                |
| CMST 3750  | GENDER AND COMMUNICATION (**)                            |                |
| CMST 4570  | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE (**)    |                |
| CMST 4580  | COMMUNICATING RACE, ETHNICITY & IDENTITY (** ^)          |                |
| <b>Select 9 credits CMST courses (only 3 credits can be 1000/2000 lower division)</b>  |  | <b>9</b>       |
| <b>Bachelor of Science in Communication - 15 Minimum Hours Required Minor</b>  |  | <b>15</b>      |
| A minor is required, credit hours depend on department requirements of the minor - Grade/GPA requirement determined by department                          |  |                |
| or   |  |                |
| 2nd field of study which required 15 credit hours in the same or related field with a minimum of 6 credits at the 3000/4000 level/ Minimum of "C" required |  |                |
| <b>ELECTIVES</b>   |  |                |
| Elective hours as required to reach a total of 120 hours   |  |                |
| <b>Communication Studies,<br/>Bachelor of Science in<br/>Communication Four Year Plan</b>  |  |                |
| <b>Freshman</b>  |  |                |
| <b>Fall</b>  |  | <b>Credits</b> |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                    | 3              |
| or CMST 2120   | or ARGUMENTATION AND DEBATE                              |                |
| ENGL 1150  | ENGLISH COMPOSITION I                                    | 3              |

|  |   |           |
|--|---|-----------|
| CMST 1400                              | EXPLORING COMMUNICATION STUDIES           | 3         |
| Humanities Gen Ed                      |   | 3         |
| Quantitative Literacy Gen Ed           |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Spring</b>                          |   |           |
| CMST 2100                              | INTRODUCTION TO COMMUNICATION THEORY      | 3         |
| ENGL 1160                              | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Social Science Gen Ed                  |   | 3         |
| CMST 2300                              | INTERGROUP DIALOGUE                       | 3         |
| Data Literacy Course                   |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Sophomore</b>                       |   |           |
| <b>Fall</b>                            |   |           |
| CMST Area 1 Lower Level Elective       |   | 3         |
| CMST 3340                              | RHETORICAL CRITICISM                      | 3         |
| Arts Course                            |   | 3         |
| Cultural Knowledge Course              |   | 3         |
| National/Physical Science Course       |   | 4         |
| <b>Credits</b>                         |   | <b>16</b> |
| <b>Spring</b>                          |   |           |
| CMST 3350                              | COMMUNICATION RESEARCH                    | 3         |
| CMST Area 1 3000/4000 Level Course 2   |   | 3         |
| CMST Area 2 3000/4000 Level Course 1   |   | 3         |
| Minor Class 1                          |   | 3         |
| Civic Knowledge and Engagement Course  |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Junior</b>                          |   |           |
| <b>Fall</b>                            |   |           |
| CMST Area 1 3000/4000 Level Course 3   |   | 3         |
| CMST Area 2 3000/4000 Level Course 2   |   | 3         |
| CMST Area 3 3000/4000 Level Course 1   |   | 3         |
| CMST Elective Any Level Course 1       |   | 3         |
| Minor Class 2                          |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Spring</b>                          |   |           |
| CMST Area 1 3000/4000 Level Course 4   |   | 3         |
| CMST Area 2 3000/4000 Level Course 3   |   | 3         |
| CMST Area 3 3000/4000 Level Course 2   |   | 3         |
| CMST Elective 3000/4000 Course 2       |   | 3         |
| Minor Class 3                          |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Senior</b>                          |   |           |
| <b>Fall</b>                            |   |           |
| CMST Area 3 3000/4000 Level Course 3   |   | 3         |
| CMST Elective 3000/4000 Level Course 3 |   | 3         |
| Minor Class 4                          |   | 3         |
| General Elective Course or Minor       |   | 3         |
| General Elective Course                |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Spring</b>                          |   |           |
| CMST 4940                              | COMMUNICATION STUDIES CAPSTONE SEMINAR    | 3         |
| Minor Class 5                          |   | 3         |
| General Elective Course                |   | 4         |

|                         |            |
|-------------------------|------------|
| General Elective Course | 4          |
| <b>Credits</b>          | <b>14</b>  |
| <b>Total Credits</b>    | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

Additional Information About this Plan:

University Degree Requirements:

The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:**

For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Communication Studies Minor

### Communication Studies Minor Requirements

Students may earn a minor in communication studies. To earn a minor students must complete at least 15 credits in Communication Studies, including CMST 2100, with at least 9 credits coming from courses at the 3000/4000 level. CMST courses used to fulfill the general education fundamental academic skills (CMST 1110 or CMST 2120) may not be used toward the minor

## Journalism and Media Communication, Bachelor of Arts

### Journalism and Media Communication, Bachelor of Arts in Communication Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS  
or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING  
or MATH 1130 QUANTITATIVE LITERACY  
or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE  
PROFESSIONALS  
or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION  
STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.  
Humanities – 3 hrs.  
Natural & Physical Science (must complete a lab) – 4 hrs.  
Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.  
Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 57 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of "C" required

**Core Courses 18**

JMC 1500 INTRODUCTION TO JOURNALISM AND  
MEDIA COMMUNICATION (\*\* ^)  
JMC 2100 MEDIA WRITING (^)  
JMC 2200 MEDIA PRODUCTION PRINCIPLES (^)  
JMC 3340 MEDIA THEORY (^)  
JMC 3350 COMMUNICATION RESEARCH (^)  
JMC 4970 INTERNSHIP EXPERIENCE (^ 3 credits  
required but students can split three  
credits up over semesters; no retroactive  
credit permitted)

**Select 2 of the following 6**

JMC 3510 CULTURAL COMMUNICATION IN  
AFRICAN-AMERICAN CINEMA  
JMC 3700 VISUAL COMMUNICATION AND  
CULTURE (^)  
JMC 3920 MEDIA & CULTURE  
JMC 4010 MEDIA HISTORY (^)  
JMC 4040 SOCIAL MEDIA MEASUREMENT AND  
MANAGEMENT (^)  
JMC 4260 MEDIA RELATIONS  
JMC 4300 RISK AND CRISIS COMMUNICATION  
JMC 4310 MEDIA & POLITICS  
JMC 4380 FILM THEORY AND CRITICISM (^)  
JMC 4390 MEDIA ENTREPRENEURSHIP (^)  
JMC 4400 MEDIA ETHICS (^)  
JMC 4410 COMMUNICATION LAW AND POLICY (^)  
JMC 4430 GLOBAL MEDIA COMMUNICATION (^)

**Select a Concentration: 33****Emerging Media Concentration**

Public Relations and Advertising Concentration

**Bachelor of Arts in Communication Foreign Language requirements 16****ELECTIVES**

elective hours as required to reach a total of 120 hours

## Journalism & Media Communication, Bachelor of Arts Concentrations

- Emerging Media Concentration (p. 437)
- Public Relations and Advertising Concentration (p. 439)

## Emerging Media Concentration

## Journalism & Media Communication, Bachelor of Arts - Emerging Media Concentration Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills 15****Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I  
ENGL 1160 COLLEGE RESEARCH AND  
INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS  
or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING  
or MATH 1130 QUANTITATIVE LITERACY  
or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE  
PROFESSIONALS  
or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION  
STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.  
Humanities – 3 hrs.  
Natural & Physical Science (must complete a lab) – 4 hrs.  
Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs  
Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 57 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of "C" required

**All of the following 18**

|          |   |
|----------|---|
| JMC 1500 | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION (** ^)                                       |
| JMC 2100 | MEDIA WRITING (^)   |
| JMC 2200 | MEDIA PRODUCTION PRINCIPLES (^)   |
| JMC 3340 | MEDIA THEORY (^)  |
| JMC 3350 | COMMUNICATION RESEARCH (^)  |
| JMC 4970 | INTERNSHIP EXPERIENCE (^ 3 credits required but credits may be divided over multiple semesters) |

**Emerging Media Concentration 18**

|          |                             |
|----------|-----------------------------|
| JMC 2370 | ALL ABOUT AUDIO (^)         |
| JMC 3030 | MULTIMEDIA JOURNALISM (^)   |
| JMC 3320 | VIDEO STUDIO PRODUCTION (^) |
| JMC 4440 | MEDIA CONTENT CREATION (^)  |
| JMC 4460 | EMERGING MEDIA CAPSTONE (^) |

**Select five of the following 15**

|          |   |
|----------|---|
| AVN 1500 | INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS         |
| JMC 2000 | NEWS LITERACY (^)                                 |
| JMC 2110 | PHOTOGRAPHY                                       |
| JMC 2150 | NEWS WRITING AND REPORTING (^)                    |
| JMC 2320 | VIDEO FIELD PRODUCTION                            |
| JMC 2500 | SOCIAL MEDIA COMMUNICATION (^)                    |
| JMC 2620 | PR AND ADVERTISING DESIGN                         |
| JMC 3270 | PUBLIC AFFAIRS REPORTING (^)                      |
| JMC 3370 | PODCAST THIS (^)                                  |
| JMC 3400 | FEATURE AND OPINION WRITING (^)                   |
| JMC 3500 | PR AND ADVERTISING DESIGN (^)                     |
| JMC 3510 | CULTURAL COMMUNICATION IN AFRICAN-AMERICAN CINEMA |
| JMC 3710 | DESIGN IN MOTION (^)                              |
| JMC 4320 | TELEVISION COMMERCIAL PRODUCTION (^)              |
| JMC 4340 | SPORTS BROADCASTING AND PRODUCTION (^)            |
| JMC 4420 | SPORTS WRITING (^)                                |

**Select 2 of the following 6**

|          |   |
|----------|---|
| JMC 3700 | VISUAL COMMUNICATION AND CULTURE (^)        |
| JMC 4010 | MEDIA HISTORY (^)                           |
| JMC 4040 | SOCIAL MEDIA MEASUREMENT AND MANAGEMENT (^) |
| JMC 4260 | MEDIA RELATIONS                             |
| JMC 4300 | RISK AND CRISIS COMMUNICATION (^)           |
| JMC 4310 | MEDIA & POLITICS (^)                        |
| JMC 4380 | FILM THEORY AND CRITICISM (^)               |
| JMC 4390 | MEDIA ENTREPRENEURSHIP (^)                  |
| JMC 4400 | MEDIA ETHICS (^)                            |
| JMC 4410 | COMMUNICATION LAW AND POLICY (^)            |
| JMC 4430 | GLOBAL MEDIA COMMUNICATION (^)              |
| JMC 4920 | MEDIA & CULTURE (^)                         |

**Bachelor of Arts in Communication Language requirements 16**

**ELECTIVES**

elective hours as required to reach a total of 120 hours

## Journalism & Media Communication, Bachelor of Arts - Emerging Media Concentration Four Year Plan

**Freshman**

| Fall      |  | Credits   |
|-----------|--|-----------|
| JMC 1500  | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION | 3         |
| ENGL 1150 | ENGLISH COMPOSITION I                              | 3         |
|           | Quantative Literacy                                | 3         |
|           | Foreign Language 1                                 | 5         |
|           | <b>Credits</b>                                     | <b>14</b> |

**Spring**

|          |                             |           |
|----------|-----------------------------|-----------|
| JMC 2100 | MEDIA WRITING               | 3         |
| JMC 2200 | MEDIA PRODUCTION PRINCIPLES | 3         |
|          | Oral Communication          | 3         |
|          | Foreign Language 2          | 5         |
|          | <b>Credits</b>              | <b>14</b> |

**Sophomore**

| Fall      |   |           |
|-----------|---|-----------|
| JMC 2370  | ALL ABOUT AUDIO                           | 3         |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
|           | Foreign Language 3                        | 3         |
|           | Science w/ lab                            | 4         |
|           | Culture                                   | 3         |
|           | <b>Credits</b>                            | <b>16</b> |

**Spring**

|  |                         |           |
|--|-------------------------|-----------|
|  | Emerging Media elective | 3         |
|  | Foreign Language 4      | 3         |
|  | Humanities              | 3         |
|  | Civic                   | 3         |
|  | Data                    | 3         |
|  | <b>Credits</b>          | <b>15</b> |

**Junior**

| Fall     |                         |           |
|----------|-------------------------|-----------|
| JMC 3030 | MULTIMEDIA JOURNALISM   | 3         |
|          | Arts                    | 3         |
|          | Social Science          | 3         |
| JMC 3340 | MEDIA THEORY            | 3         |
|          | Emerging Media elective | 3         |
|          | <b>Credits</b>          | <b>15</b> |

**Spring**

|          |                         |           |
|----------|-------------------------|-----------|
| JMC 3350 | COMMUNICATION RESEARCH  | 3         |
| JMC 3320 | VIDEO STUDIO PRODUCTION | 4         |
|          | Emerging Media elective | 3         |
|          | Emerging Media elective | 3         |
| JMC 4970 | INTERNSHIP EXPERIENCE   | 3         |
|          | <b>Credits</b>          | <b>16</b> |

**Senior**

| Fall |                         |   |
|------|-------------------------|---|
|      | Emerging Media elective | 3 |



|                         |                         |            |
|-------------------------|-------------------------|------------|
| JMC 4440                | MEDIA CONTENT CREATION  | 4          |
| JMC advanced elective   |                         | 3          |
| General electives       |                         | 5          |
| <b>Credits</b>          |                         | <b>15</b>  |
| <b>Spring</b>           |                         |            |
| JMC 4460                | EMERGING MEDIA CAPSTONE | 4          |
| Emerging Media elective |                         | 3          |
| General electives       |                         | 8          |
| <b>Credits</b>          |                         | <b>15</b>  |
| <b>Total Credits</b>    |                         | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

##### University Degree Requirements:

The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

##### Placement Exams:

For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

##### GPA Requirements:

2.25 cumulative GPA

## Public Relations and Advertising Concentration Journalism & Media Communication, Bachelor of Arts - Public Relations and Advertising Concentration Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |

|   |   |
|---|---|
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING   |
| or MATH 1130  | QUANTITATIVE LITERACY   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS   |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT  |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |
| STAT 1530   | ELEMENTARY STATISTICS   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   |   |
| <b>13</b>   |   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   |   |
| <b>6</b>  |   |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 57 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| Minimum of "C" required   |   |
| <b>All of the following</b>   |   |
| <b>18</b>   |   |
| JMC 1500  | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION (** ^)                                       |
| JMC 2100  | MEDIA WRITING (^)   |
| JMC 2200  | MEDIA PRODUCTION PRINCIPLES (^)   |
| JMC 3340  | MEDIA THEORY (^)  |
| JMC 3350  | COMMUNICATION RESEARCH (^)  |
| JMC 4970  | INTERNSHIP EXPERIENCE (^ 3 credits required but credits may be divided over multiple semesters) |
| <b>Public Relations/Advertising Concentration</b>   |   |
| <b>12</b>   |   |
| JMC 2500  | SOCIAL MEDIA COMMUNICATION (^)  |
| JMC 3230  | PRINCIPLES OF PUBLIC RELATIONS (^)  |
| JMC 4250  | STRATEGIC WRITING FOR PUBLIC RELATIONS AND ADVERTISING (^)                                      |
| JMC 4450  | PR AND ADVERTISING CAPSTONE (^)   |
| <b>Select 5 of the following</b>  |   |
| <b>15</b>   |   |
| JMC 2000  | NEWS LITERACY   |
| JMC 2110  | PHOTOGRAPHY   |
| JMC 2620  | PR AND ADVERTISING DESIGN   |
| JMC 3620  | PRINCIPLES OF CREATIVE ADVERTISING (^)  |
| JMC 4040  | SOCIAL MEDIA MEASUREMENT AND MANAGEMENT (^)   |
| JMC 4260  | MEDIA RELATIONS   |
| JMC 4300  | RISK AND CRISIS COMMUNICATION (^)   |
| JMC 4320  | TELEVISION COMMERCIAL PRODUCTION (^)  |
| JMC 4390  | MEDIA ENTREPRENEURSHIP (^)  |
| JMC 4430  | GLOBAL MEDIA COMMUNICATION (^)  |
| <b>Select 2 of the following</b>  |   |
| <b>6</b>  |   |
| JMC 3700  | VISUAL COMMUNICATION AND CULTURE (^)  |
| JMC 4010  | MEDIA HISTORY (^)   |

|          |   |  |
|----------|---|--|
| JMC 4040 | SOCIAL MEDIA MEASUREMENT AND MANAGEMENT (^) |  |
| JMC 4260 | MEDIA RELATIONS                             |  |
| JMC 4300 | RISK AND CRISIS COMMUNICATION               |  |
| JMC 4310 | MEDIA & POLITICS                            |  |
| JMC 4380 | FILM THEORY AND CRITICISM (^)               |  |
| JMC 4390 | MEDIA ENTREPRENEURSHIP (^)                  |  |
| JMC 4400 | MEDIA ETHICS (^)                            |  |
| JMC 4410 | COMMUNICATION LAW AND POLICY (^)            |  |
| JMC 4430 | GLOBAL MEDIA COMMUNICATION (^)              |  |
| JMC 4920 | MEDIA & CULTURE (^)                         |  |

**Select 6 credits JMC courses** **6**

**Bachelor of Arts in Communication Language requirements** **16**

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Journalism & Media Communication, Bachelor of Arts - Public Relations and Advertising Concentration Four Year Plan

### Freshman

| Fall                |  | Credits   |
|---------------------|--|-----------|
| JMC 1500            | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION | 3         |
| Foreign Language 1  |  | 5         |
| ENGL 1150           | ENGLISH COMPOSITION I                              | 3         |
| Quantative Literacy |  | 3         |
| <b>Credits</b>      |  | <b>14</b> |

### Spring

|                    |   |           |
|--------------------|---|-----------|
| JMC 2500           | SOCIAL MEDIA COMMUNICATION                | 3         |
| Foreign Language 2 |   | 5         |
| ENGL 1160          | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Oral Communication |   | 3         |
| <b>Credits</b>     |   | <b>14</b> |

### Sophomore

| Fall               |                             | Credits   |
|--------------------|-----------------------------|-----------|
| JMC 2100           | MEDIA WRITING               | 3         |
| JMC 2200           | MEDIA PRODUCTION PRINCIPLES | 3         |
| Foreign Language 3 |                             | 3         |
| Science w/ lab     |                             | 4         |
| Culture            |                             | 3         |
| <b>Credits</b>     |                             | <b>16</b> |

### Spring

|                    |              |           |
|--------------------|--------------|-----------|
| JMC 3340           | MEDIA THEORY | 3         |
| Foreign Language 4 |              | 3         |
| Humanities         |              | 3         |
| Civic              |              | 3         |
| Data               |              | 3         |
| <b>Credits</b>     |              | <b>15</b> |

### Junior

| Fall     |                                | Credits |
|----------|--------------------------------|---------|
| JMC 3230 | PRINCIPLES OF PUBLIC RELATIONS | 3       |
| Arts     |                                | 3       |

|                |                        |   |
|----------------|------------------------|---|
| Social Science |                        | 3 |
| JMC 3350       | COMMUNICATION RESEARCH | 3 |
| PRAD elective  |                        | 3 |

**Credits** **15**

### Spring

|                       |  |     |
|-----------------------|--|-----|
| JMC 4250              | STRATEGIC WRITING FOR PUBLIC RELATIONS AND ADVERTISING | 3   |
| PRAD elective         |  | 3   |
| PRAD elective         |  | 3   |
| JMC advanced elective |  | 3   |
| JMC 4970              | INTERNSHIP EXPERIENCE                                  | 1-3 |

**Credits** **13-15**

### Senior

#### Fall

|                       |  |   |
|-----------------------|--|---|
| PRAD elective         |  | 3 |
| PRAD elective         |  | 3 |
| JMC advanced elective |  | 3 |
| JMC major elective    |  | 3 |
| General elective      |  | 4 |

**Credits** **16**

### Spring

|                    |                             |   |
|--------------------|-----------------------------|---|
| JMC 4450           | PR AND ADVERTISING CAPSTONE | 3 |
| JMC major elective |                             | 3 |
| General elective   |                             | 3 |
| General elective   |                             | 3 |
| General elective   |                             | 3 |

**Credits** **15**

**Total Credits** **118-120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements:

2.25 cumulative GPA

# Journalism and Media Communication, Bachelor of Science

## Journalism and Media Communication, Bachelor of Science in Communication Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 57 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| Minimum of "C" required   |   |           |
| <b>Core Courses</b>   |   | <b>18</b> |
| JMC 1500  | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION (** ^)   |           |
| JMC 2100  | MEDIA WRITING (^)   |           |
| JMC 2200  | MEDIA PRODUCTION PRINCIPLES (^)   |           |
| JMC 3340  | MEDIA THEORY (^)  |           |
| JMC 3350  | COMMUNICATION RESEARCH (^)  |           |

|  |  |           |
|--|--|-----------|
| JMC 4970   | INTERNSHIP EXPERIENCE (^ 3 credits required but students can split the credits up over semesters; no retroactive credit permitted) |           |
| <b>Select 2 courses from the following</b>   |  | <b>6</b>  |
| JMC 3510   | CULTURAL COMMUNICATION IN AFRICAN-AMERICAN CINEMA  |           |
| JMC 3700   | VISUAL COMMUNICATION AND CULTURE (^)   |           |
| JMC 3920   | MEDIA & CULTURE  |           |
| JMC 4010   | MEDIA HISTORY (^)  |           |
| JMC 4040   | SOCIAL MEDIA MEASUREMENT AND MANAGEMENT (^)  |           |
| JMC 4260   | MEDIA RELATIONS  |           |
| JMC 4300   | RISK AND CRISIS COMMUNICATION  |           |
| JMC 4310   | MEDIA & POLITICS   |           |
| JMC 4380   | FILM THEORY AND CRITICISM (^)  |           |
| JMC 4390   | MEDIA ENTREPRENEURSHIP (^)   |           |
| JMC 4400   | MEDIA ETHICS (^)   |           |
| JMC 4410   | COMMUNICATION LAW AND POLICY (^)   |           |
| JMC 4430   | GLOBAL MEDIA COMMUNICATION (^)   |           |
| <b>Select a Concentration</b>  |  | <b>33</b> |
| Emerging Media Concentration   |  |           |
| Public Relations and Advertising Concentration   |  |           |
| <b>Bachelor of Science in Communication - Minimum Hours required minor</b>   |  | <b>15</b> |
| A minor is required, credit hours depend on the department requirements of the minor - Grade/GPA requirement determined by department                        |  |           |
| or   |  |           |
| 2nd field of study which requires 15 credit hours in the same or related field with a minimum of 6 credits at the 3000/4000 level. - Minimum of "C" required |  |           |
| <b>ELECTIVES</b>   |  |           |
| elective hours as required to reach a total of 120 hours   |  |           |

## Journalism & Media Communication Bachelor of Science Concentrations

- Emerging Media Concentration (p. 441)
- Public Relations and Advertising Concentration (p. 443)

## Emerging Media Concentration

## Journalism & Media Communication, Bachelor of Science - Emerging Media Concentration Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of "C-" required                                  |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |       |           |

|   |   |
|---|---|
| ENGL 1150   | ENGLISH COMPOSITION I   |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |
| <b>Oral Communication – 3 hrs.</b>  |   |
| CMST 1110   | PUBLIC SPEAKING FUNDS   |
| or CMST 2120  | ARGUMENTATION AND DEBATE  |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING   |
| or MATH 1130  | QUANTITATIVE LITERACY   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS   |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT  |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |
| STAT 1530   | ELEMENTARY STATISTICS   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge 13</b>  |   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility 6</b>   |   |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 57 Hours Required</b>   |   |
| Minimum of “C” required   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following 18</b>  |   |
| JMC 1500  | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION (** ^)                                       |
| JMC 2100  | MEDIA WRITING (^)   |
| JMC 2200  | MEDIA PRODUCTION PRINCIPLES (^)   |
| JMC 3340  | MEDIA THEORY (^)  |
| JMC 3350  | COMMUNICATION RESEARCH (^)  |
| JMC 4970  | INTERNSHIP EXPERIENCE (^ 3 credits required but credits may be divided over multiple semesters) |
| <b>Emerging Media Concentration 18</b>  |   |
| JMC 2370  | ALL ABOUT AUDIO (^)   |
| JMC 3030  | MULTIMEDIA JOURNALISM (^)   |
| JMC 3320  | VIDEO STUDIO PRODUCTION   |
| JMC 4440  | MEDIA CONTENT CREATION (^)  |
| JMC 4460  | EMERGING MEDIA CAPSTONE (^)   |
| <b>Select 5 of the following 15</b>   |   |
| AVN 1500  | INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS   |
| JMC 2000  | NEWS LITERACY (^)   |
| JMC 2110  | PHOTOGRAPHY   |
| JMC 2150  | NEWS WRITING AND REPORTING (^)  |
| JMC 2320  | VIDEO FIELD PRODUCTION  |
| JMC 2500  | SOCIAL MEDIA COMMUNICATION (^)  |
| JMC 2620  | PR AND ADVERTISING DESIGN   |
| JMC 3270  | PUBLIC AFFAIRS REPORTING (^)  |

|                                    |   |
|------------------------------------|---|
| JMC 3370                           | PODCAST THIS (^)                                  |
| JMC 3400                           | FEATURE AND OPINION WRITING (^)                   |
| JMC 3500                           | PR AND ADVERTISING DESIGN (^)                     |
| JMC 3510                           | CULTURAL COMMUNICATION IN AFRICAN-AMERICAN CINEMA |
| JMC 3710                           | DESIGN IN MOTION (^)                              |
| JMC 4320                           | TELEVISION COMMERCIAL PRODUCTION                  |
| JMC 4340                           | SPORTS BROADCASTING AND PRODUCTION (^)            |
| JMC 4420                           | SPORTS WRITING (^)                                |
| <b>Select 2 of the following 6</b> |   |
| JMC 3700                           | VISUAL COMMUNICATION AND CULTURE (^)              |
| JMC 4010                           | MEDIA HISTORY (^)                                 |
| JMC 4040                           | SOCIAL MEDIA MEASUREMENT AND MANAGEMENT (^)       |
| JMC 4260                           | MEDIA RELATIONS                                   |
| JMC 4300                           | RISK AND CRISIS COMMUNICATION (^)                 |
| JMC 4310                           | MEDIA & POLITICS (^)                              |
| JMC 4380                           | FILM THEORY AND CRITICISM (^)                     |
| JMC 4390                           | MEDIA ENTREPRENEURSHIP (^)                        |
| JMC 4400                           | MEDIA ETHICS (^)                                  |
| JMC 4410                           | COMMUNICATION LAW AND POLICY (^)                  |
| JMC 4430                           | GLOBAL MEDIA COMMUNICATION (^)                    |
| JMC 4920                           | MEDIA & CULTURE (^)                               |

**Bachelor of Science in Communication - minimum hours required minor 15**

A minor is required, credit hours depend on the department requirements of the minor - Grade/GPA requirement determined by department

or

2nd field of study which requires 15 credit hours in the same or related field with a minimum of 6 credits at the 3000/4000 level. - Minimum of “C” required

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Journalism & Media Communication, Bachelor of Science - Emerging Media Concentration Four Year Plan

**Freshman**

| <b>Fall</b>           |  | <b>Credits</b> |
|-----------------------|--|----------------|
| JMC 1500              | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION | 3              |
| Oral Communication    |  | 3              |
| ENGL 1150             | ENGLISH COMPOSITION I                              | 3              |
| Quantitative Literacy |  | 3              |
| Humanities            |  | 3              |
| <b>Credits</b>        |  | <b>15</b>      |

**Spring**

|               |                             |   |
|---------------|-----------------------------|---|
| JMC 2100      | MEDIA WRITING               | 3 |
| JMC 2200      | MEDIA PRODUCTION PRINCIPLES | 3 |
| Civic         |                             | 3 |
| Data Literacy |                             | 3 |

|                         |   |            |
|-------------------------|---|------------|
| Social Science          |   | 3          |
| <b>Credits</b>          |   | <b>15</b>  |
| <b>Sophomore</b>        |   |            |
| <b>Fall</b>             |   |            |
| JMC 2370                | ALL ABOUT AUDIO                           | 3          |
| JMC 3030                | MULTIMEDIA JOURNALISM                     | 3          |
| ENGL 1160               | COLLEGE RESEARCH AND INFORMATION LITERACY | 3          |
| Science w/ lab          |   | 4          |
| Culture                 |   | 3          |
| <b>Credits</b>          |   | <b>16</b>  |
| <b>Spring</b>           |   |            |
| JMC 3340                | MEDIA THEORY                              | 3          |
| Emerging Media elective |   | 3          |
| Emerging Media elective |   | 3          |
| Minor/2nd field course  |   | 3          |
| Arts                    |   | 3          |
| <b>Credits</b>          |   | <b>15</b>  |
| <b>Junior</b>           |   |            |
| <b>Fall</b>             |   |            |
| JMC 3320                | VIDEO STUDIO PRODUCTION                   | 4          |
| JMC 3350                | COMMUNICATION RESEARCH                    | 3          |
| Emerging Media elective |   | 3          |
| Emerging Media elective |   | 3          |
| Minor/2nd field course  |   | 3          |
| <b>Credits</b>          |   | <b>16</b>  |
| <b>Spring</b>           |   |            |
| JMC 4970                | INTERNSHIP EXPERIENCE                     | 3          |
| Emerging Media elective |   | 3          |
| JMC advanced elective   |   | 3          |
| Minor/2nd field course  |   | 3          |
| Minor/2nd field course  |   | 3          |
| <b>Credits</b>          |   | <b>15</b>  |
| <b>Senior</b>           |   |            |
| <b>Fall</b>             |   |            |
| JMC 4440                | MEDIA CONTENT CREATION                    | 4          |
| JMC advanced elective   |   | 3          |
| Minor/2nd field course  |   | 3          |
| General electives       |   | 6          |
| <b>Credits</b>          |   | <b>16</b>  |
| <b>Spring</b>           |   |            |
| JMC 4460                | EMERGING MEDIA CAPSTONE                   | 4          |
| General electives       |   | 8          |
| <b>Credits</b>          |   | <b>12</b>  |
| <b>Total Credits</b>    |   | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

##### University Degree Requirements:

The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to

determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

#### Placement Exams:

For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

2.25 cumulative GPA

## Public Relations and Advertising Concentration Journalism & Media Communication, Bachelor of Science - Public Relations and Advertising Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 57 Hours Required</b>   |   |           |



Minimum of "C" required

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following 18**

|          |   |
|----------|---|
| JMC 1500 | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION (** ^)                                       |
| JMC 2100 | MEDIA WRITING (^)   |
| JMC 2200 | MEDIA PRODUCTION PRINCIPLES (^)   |
| JMC 3340 | MEDIA THEORY (^)  |
| JMC 3350 | COMMUNICATION RESEARCH (^)  |
| JMC 4970 | INTERNSHIP EXPERIENCE (^ 3 credits required but credits may be divided over multiple semesters) |

**Public Relations/Advertising Concentration 12**

|          |  |
|----------|--|
| JMC 2500 | SOCIAL MEDIA COMMUNICATION (^)                             |
| JMC 3230 | PRINCIPLES OF PUBLIC RELATIONS (^)                         |
| JMC 4250 | STRATEGIC WRITING FOR PUBLIC RELATIONS AND ADVERTISING (^) |
| JMC 4450 | PR AND ADVERTISING CAPSTONE (^)                            |

**Select 5 of the following 15**

|          |   |
|----------|---|
| JMC 2000 | NEWS LITERACY                               |
| JMC 2110 | PHOTOGRAPHY                                 |
| JMC 2620 | PR AND ADVERTISING DESIGN                   |
| JMC 3620 | PRINCIPLES OF CREATIVE ADVERTISING (^)      |
| JMC 4040 | SOCIAL MEDIA MEASUREMENT AND MANAGEMENT (^) |
| JMC 4260 | MEDIA RELATIONS                             |
| JMC 4300 | RISK AND CRISIS COMMUNICATION (^)           |
| JMC 4320 | TELEVISION COMMERCIAL PRODUCTION (^)        |
| JMC 4390 | MEDIA ENTREPRENEURSHIP (^)                  |
| JMC 4430 | GLOBAL MEDIA COMMUNICATION (^)              |

**Select 2 of the following 6**

|          |   |
|----------|---|
| JMC 3700 | VISUAL COMMUNICATION AND CULTURE (^)        |
| JMC 4010 | MEDIA HISTORY (^)                           |
| JMC 4040 | SOCIAL MEDIA MEASUREMENT AND MANAGEMENT (^) |
| JMC 4260 | MEDIA RELATIONS                             |
| JMC 4300 | RISK AND CRISIS COMMUNICATION (^)           |
| JMC 4310 | MEDIA & POLITICS                            |
| JMC 4380 | FILM THEORY AND CRITICISM (^)               |
| JMC 4390 | MEDIA ENTREPRENEURSHIP (^)                  |
| JMC 4400 | MEDIA ETHICS (^)                            |
| JMC 4410 | COMMUNICATION LAW AND POLICY (^)            |
| JMC 4430 | GLOBAL MEDIA COMMUNICATION (^)              |
| JMC 4920 | MEDIA & CULTURE (^)                         |

**Select 6 credits JMC classes 6**

**Bachelor of Science in Communication - 15 minimum Hours Required Minor 15**

A minor is required, credit hours depend on the department requirements of the minor - Grade/GPA requirement determined by department

or

2nd field of study which requires 15 credit hours in the same or related field with a minimum of 6 credits at the 3000/4000 level. - Minimum of "C" required

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Journalism & Media Communication, Bachelor of Science - Public Relations and Advertising Concentration Four Year Plan

**Freshman**

| <b>Fall</b>           |  | <b>Credits</b> |
|-----------------------|--|----------------|
| JMC 1500              | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION | 3              |
| Oral Communication    |  | 3              |
| ENGL 1150             | ENGLISH COMPOSITION I                              | 3              |
| Quantitative Literacy |  | 3              |
| Humanities            |  | 3              |
| <b>Credits</b>        |  | <b>15</b>      |

**Spring**

|                |   |           |
|----------------|---|-----------|
| JMC 2500       | SOCIAL MEDIA COMMUNICATION                | 3         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Civic          |   | 3         |
| Data Literacy  |   | 3         |
| Social Science |   | 3         |
| <b>Credits</b> |   | <b>15</b> |

**Sophomore**

| <b>Fall</b>    |                             |           |
|----------------|-----------------------------|-----------|
| JMC 2100       | MEDIA WRITING               | 3         |
| JMC 2200       | MEDIA PRODUCTION PRINCIPLES | 3         |
| Arts           |                             | 3         |
| Science w/ lab |                             | 4         |
| Culture        |                             | 3         |
| <b>Credits</b> |                             | <b>16</b> |

**Spring**

|                        |                        |           |
|------------------------|------------------------|-----------|
| JMC 3340               | MEDIA THEORY           | 3         |
| JMC 3350               | COMMUNICATION RESEARCH | 3         |
| PRAD elective          |                        | 3         |
| JMC major elective     |                        | 3         |
| Minor/2nd field course |                        | 3         |
| <b>Credits</b>         |                        | <b>15</b> |

**Junior**

| <b>Fall</b>            |                                |           |
|------------------------|--------------------------------|-----------|
| JMC 3230               | PRINCIPLES OF PUBLIC RELATIONS | 3         |
| PRAD elective          |                                | 3         |
| PRAD elective          |                                | 3         |
| PRAD elective          |                                | 3         |
| Minor/2nd field course |                                | 3         |
| <b>Credits</b>         |                                | <b>15</b> |

**Spring**

|                       |  |   |
|-----------------------|--|---|
| JMC 4970              | INTERNSHIP EXPERIENCE                                  | 3 |
| JMC 4250              | STRATEGIC WRITING FOR PUBLIC RELATIONS AND ADVERTISING | 3 |
| PRAD elective         |  | 3 |
| JMC advanced elective |  | 3 |

|                                      |            |
|--------------------------------------|------------|
| Minor/2nd field course               | 3          |
| <b>Credits</b>                       | <b>15</b>  |
| <b>Senior</b>                        |            |
| <b>Fall</b>                          |            |
| JMC major elective                   | 3          |
| JMC advanced elective                | 3          |
| Minor/2nd field course               | 3          |
| General electives or Minor/2nd field | 3          |
| General electives or Minor/2nd field | 3          |
| <b>Credits</b>                       | <b>15</b>  |
| <b>Spring</b>                        |            |
| JMC 4450 PR AND ADVERTISING CAPSTONE | 3          |
| Minor/2nd field course               | 3          |
| General elective                     | 2          |
| General elective                     | 3          |
| General elective                     | 3          |
| <b>Credits</b>                       | <b>14</b>  |
| <b>Total Credits</b>                 | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

#### **Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.25 cumulative GPA

## **Journalism and Media Communication Minor**

### **Journalism and Media Communication Minor Requirements**

Students may earn a minor in Journalism and Media Communication with courses selected from JMC offerings. To fulfill the minor, students must complete 18 hours in JMC offerings with 9 of those credit hours in JMC 1500, JMC 2100, and JMC 2200 and 9 credits of chosen courses at

the 3000 or 4000 level. All courses in the minor must be completed with a grade of "C" or higher.

## **Public Relations and Advertising (PR/Ad) Minor**

### **Public Relations and Advertising (PR/Ad) Minor Requirements**

Students may earn a minor in Public Relations and Advertising (PR/Ad) with courses selected from JMC's PR/Ad Concentration offerings. To fulfill the minor, students must complete 18 hours with 12 of those credit hours in JMC 2100, JMC 2500, JMC 3230, and JMC 3620 and 6 credits at the 2000 or higher level of PR/Ad Concentration courses (with 3 of those credits at the 4000 level). All courses in the minor must be completed with a grade of "C" or higher.

## **School of Music**

The School of Music is one of three schools within the College of Communication, Fine Arts, and Media. It is located in the newly renovated Janet A. and Willis S. Strauss Performing Arts Center, which is nestled near the focal point of the campus, a campanile that houses a carillon of forty-seven bells. The complex itself boasts a tunable 420 seat concert hall and 100 seat recital hall, impressive acoustic isolation, recording studio, and well-equipped classrooms and rehearsal spaces. The center serves as a nexus of musical activity not only for the university, but for the city of Omaha as well.

The School of Music has a faculty of 45 full and part time members and is a fully accredited member of the National Association of Schools of Music (NASM). Degrees offered include the Bachelor of Music degree in performance, the Bachelor of Music with K-12 certification and the Bachelor of Arts in Music degree with concentrations in music studies, jazz studies, music technology, and music industry.

## **Other Information**

All students wishing to declare a major in music must be accepted by audition. Audition requirements can be accessed at [music.unomaha.edu](http://music.unomaha.edu) (<http://music.unomaha.edu>). Prospective majors should contact the Coordinator of Music Outreach and Recruitment at 402.554.2177 to discuss audition requirements.

For students who are not music majors, the School of Music offers many courses that will satisfy the general education requirements for Humanities/Fine Arts as well as Cultural Diversity. Click here (<https://www.unomaha.edu/general-education/overview/distribution-requirements.php>) for a list of music courses that are approved for general education. Additionally, the School of Music has numerous ensembles that are open to both majors and non-majors. Some ensembles require acceptance by audition. Auditions for select ensembles occur during the week before the semester begins. Information on all ensembles can be found online (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/music/student-involvement/>)

## **Information for All Students**

The specific requirements for the degrees in music are listed below. In addition to the specific music requirements, all students are required to complete the general education requirements found here (<https://www.unomaha.edu/general-education/>)

## **Contact**

402.554.3411

Website (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/music/>)

## Degrees Offered

- Music, Bachelor of Arts (p. 446)
- Music Performance, Bachelor of Music (p. 457)
- Music, Bachelor of Music, K-12 Certification (p. 470)

## Bachelor of Music

The professional program in music provides a comprehensive music education that prepares students with the technical skills, historical context, and theoretical knowledge to create meaningful musical contributions.

Students in the music performance track are prepared for advanced graduate study in music while students in the music education track pursue teacher certification to apply their musical skills in the K-12 classroom.

### Performance

- Studio musician
- Concert musician
- Tutor/instructor
- Director
- National guard member
- Accompanist

### Music, K-12 Education

- Elementary music educator
- Secondary music educator
- Tutor/instructor

## Bachelor of Arts in Music

The Bachelor of Arts degrees allow students to develop advanced musical skills within a comprehensive liberal arts degree. Concentrations in instrumental, keyboard, or voice studies train students in classical music repertoire to prepare them for careers in a music field outside the concert hall or classroom. Jazz studies is similar, but focuses specifically on jazz and commercial applications of music. The concentration in music technology prepares students for audio recording, sound editing, and other computer-based applications of music. Finally, the concentration in Entrepreneurial Studies brings skills of innovation and application of business principles in a musical setting.

### Jazz Studies

- Recording musician
- Concert musician
- Instructor
- Music librarian
- Composer/arranger

### Music Technology

- Audio engineer
- Music producer
- Sound mixing artist
- Broadcast technician
- Multimedia specialist
- Foley artist
- Engraving technician

### Music Industry

- Arts administrator
- Music/licensing publisher

- Event planner
- Development specialist
- Publicist

### Music Studies

- Music librarian
- Music director
- Entertainment/music attorney
- Critic
- Music therapist

## Music, Bachelor of Arts Music, Bachelor of Arts in Music Requirements

| Code  | Title   | Credits      |
|---|---|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |              |
| Minimum of "C-"required   |   |              |
| <b>Fundamental Skills</b>   |   | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |   |              |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |              |
| <b>Oral Communication – 3 hrs.</b>  |   |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |              |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |              |
| STAT 1530   | ELEMENTARY STATISTICS                                   |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| **Course will satisfy UNO's General Education requirement   |   |              |
| ^Course requires pre-requisite(s)   |   |              |
| <b>Select a Concentration</b>   |   | <b>47-53</b> |
| Jazz Studies  |   |              |
| Music Industry  |   |              |
| Music Technology  |   |              |
| Music Studies-Instrumental  |   |              |
| Music Studies- Vocal  |   |              |

## Music Studies- Keyboard

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Music, Bachelor of Arts Music Concentrations

- Jazz Studies (p. 450)
- Music Industry (p. 447)
- Music Studies Instrumental (p. 448)
- Music Studies Keyboard (p. 452)
- Music Studies Voice (p. 455)
- Music Technology (p. 453)

## Music Industry Concentration

### Music, Bachelor of Arts in Music - Concentration in Music Industry Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 47 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>40</b> |

|           |  |
|-----------|--|
| MUS 1390  | BASIC MUSICIANSHIP (^)                               |
| MUS 1400  | MUSIC FUNDAMENTALS (^)                               |
| MUS 1430  | COMMERCIAL MUSIC THEORY I (^)                        |
| MUS 2430  | COMMERCIAL MUSIC THEORY 2 (^)                        |
| MUS 1070  | MUSIC OF THE PEOPLE: ROCK AND POP (**)               |
| MUS 1170  | FOUNDATIONS OF MUSIC TECHNOLOGY                      |
| MUS 4300  | BUSINESS OF MUSIC (^)                                |
| MUS 4590  | AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP |
| MUS 115   | APPLIED MUSIC - 2 semesters at 1 credit              |
| MUS 215   | APPLIED MUSIC - 2 semesters at 1 credit              |
| MUS 2200  | AUDIO RECORDING TECHNIQUES I (^)                     |
| MUS 1010  | MUSIC TECHNOLOGY NOW <sup>8 semesters</sup>          |
| MUS 3650  | INTERNSHIPS IN MUSIC (^)                             |
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)                      |
| MUS 4290  | MUSIC CAPSTONE PROJECT (^)                           |
| MUS 28XX  | Introduction to Music Industry                       |
| ACCT 2000 | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS (** ^)     |

**ENSEMBLES: 4 courses at 1 credit hour** **4****Advisor Approved Music/Entrepreneurship Course** **3****ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Music, Bachelor of Arts in Music - Concentration in Music Industry Four Year Plan

**Freshman**

| Fall           |                                 | Credits   |
|----------------|---------------------------------|-----------|
| MUS 115        | Applied Lessons                 | 1         |
| MUS 1010       | MUSIC TECHNOLOGY NOW            | 0         |
| Ensemble       |                                 | 1         |
| MUS 1170       | FOUNDATIONS OF MUSIC TECHNOLOGY | 3         |
| ENGL 1150      | ENGLISH COMPOSITION I           | 3         |
| MUS 28XX       | Introduction to Music Industry  | 3         |
| CMST 1110      | PUBLIC SPEAKING FUNDS           | 3         |
| <b>Credits</b> |                                 | <b>14</b> |

**Spring**

|                |   |           |
|----------------|---|-----------|
| MUS 115        | Applied Lessons                           | 1         |
| MUS 1010       | MUSIC TECHNOLOGY NOW                      | 0         |
| Ensemble       |   | 1         |
| MUS 2200       | AUDIO RECORDING TECHNIQUES I              | 3         |
| MUS 1390       | BASIC MUSICIANSHIP                        | 3         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| DATA LITERACY  |   | 3         |
| MATH           |   | 3         |
| <b>Credits</b> |   | <b>17</b> |

**Sophomore****Fall**

|          |                      |   |
|----------|----------------------|---|
| MUS 215  | Applied Lessons      | 1 |
| MUS 1010 | MUSIC TECHNOLOGY NOW | 0 |
| Ensemble |                      | 1 |

|                   |                                   |   |
|-------------------|-----------------------------------|---|
| MUS 1400          | MUSIC FUNDAMENTALS                | 3 |
| MUS 1070          | MUSIC OF THE PEOPLE: ROCK AND POP | 3 |
| General Education |                                   | 4 |
| Elective          |                                   | 3 |

**Credits** **15**

#### Spring

|           |   |   |
|-----------|---|---|
| MUS 215   | Applied Lesson                            | 1 |
| MUS 1010  | MUSIC TECHNOLOGY NOW                      | 0 |
| Ensemble  |   | 1 |
| MUS 1430  | COMMERCIAL MUSIC THEORY I                 | 3 |
| Electives |   | 6 |
| ACCT 2000 | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS | 3 |

**Credits** **14**

#### Junior

##### Fall

|          |  |   |
|----------|--|---|
| MUS 2430 | COMMERCIAL MUSIC THEORY 2                            | 3 |
| MUS 1010 | MUSIC TECHNOLOGY NOW                                 | 0 |
| MUS 3180 | ELECTRONIC MUSIC PRODUCTION                          | 3 |
| MUS 4590 | AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP | 3 |

|                   |  |   |
|-------------------|--|---|
| Elective          |  | 3 |
| General Education |  | 3 |

**Credits** **15**

#### Spring

|          |   |   |
|----------|---|---|
| MUS 1010 | MUSIC TECHNOLOGY NOW                              | 0 |
| MUS 2300 | SOUND DESIGN FOR VIDEO GAMES, FILM, AND SOUND ART | 3 |

|           |                             |   |
|-----------|-----------------------------|---|
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS | 3 |
|-----------|-----------------------------|---|

|           |  |   |
|-----------|--|---|
| Electives |  | 3 |
|-----------|--|---|

|                   |  |   |
|-------------------|--|---|
| General Education |  | 3 |
|-------------------|--|---|

|                   |  |   |
|-------------------|--|---|
| General Education |  | 3 |
|-------------------|--|---|

**Credits** **15**

#### Senior

##### Fall

|          |                      |   |
|----------|----------------------|---|
| MUS 3650 | INTERNSHIPS IN MUSIC | 3 |
| MUS 1010 | MUSIC TECHNOLOGY NOW | 0 |

|          |  |   |
|----------|--|---|
| Elective |  | 3 |
|----------|--|---|

|          |  |   |
|----------|--|---|
| Elective |  | 3 |
|----------|--|---|

|          |  |   |
|----------|--|---|
| Elective |  | 3 |
|----------|--|---|

|                   |  |   |
|-------------------|--|---|
| General Education |  | 3 |
|-------------------|--|---|

**Credits** **15**

#### Spring

|          |                        |   |
|----------|------------------------|---|
| MUS 4290 | MUSIC CAPSTONE PROJECT | 1 |
| MUS 1010 | MUSIC TECHNOLOGY NOW   | 0 |

|                   |  |   |
|-------------------|--|---|
| General Education |  | 3 |
|-------------------|--|---|

|          |  |   |
|----------|--|---|
| Elective |  | 3 |
|----------|--|---|

|          |  |   |
|----------|--|---|
| Elective |  | 3 |
|----------|--|---|

|          |  |   |
|----------|--|---|
| Elective |  | 3 |
|----------|--|---|

|          |  |   |
|----------|--|---|
| Elective |  | 2 |
|----------|--|---|

**Credits** **15**

**Total Credits** **120**

sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Music Studies Instrumental Concentration

### Music, Bachelor of Arts Music - Concentration in Music Studies Instrumental Requirements

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |

Minimum of "C-" required

**Fundamental Skills** **15**

#### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

#### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

#### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual



|   |  |
|---|--|
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility</b>   | <b>6</b>   |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS - 47 Hours Required</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following:</b>  | <b>38</b>  |
| MUS 1400  | MUSIC FUNDAMENTALS (^)   |
| MUS 1410  | MUSIC CORE CURRICULUM I (^)  |
| MUS 1420  | MUSIC CORE CURRICULUM II (^)   |
| MUS 2410  | MUSIC CORE CURRICULUM III (^)  |
| MUS 2550  | MUSIC HISTORY I  |
| MUS 2560  | MUSIC HISTORY II   |
| MUS 2600  | FUNDAMENTALS OF CONDUCTING (^)                                       |
| MUS 115   | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 215   | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 315   | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 415   | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 1000  | CONVOCATION (^ Required for each semester enrolled in applied music) |
| MUS 2420  | MUSIC CORE CURRICULUM IV (^)   |
| MUS 3660  | ADVANCED CONDUCTING (^)  |
| MUS 4190  | RECITAL (^)  |
| or MUS 4290   | MUSIC CAPSTONE PROJECT   |
| <b>Ensemble/Chamber Music - 6 courses at 1 credit</b>   | <b>6</b>   |
| MUS 2700  | UNIVERSITY CHORUS (** ^)   |
| MUS 2740  | CHAMBER MUSIC (^)  |
| MUS 2760  | UNIVERSITY CONCERT BAND (** ^)                                       |
| MUS 2770  | JAZZ ENSEMBLE (^)  |
| MUS 4100  | CONCERT CHOIR (^)  |
| MUS 4130  | UNIVERSITY ORCHESTRA (^)   |
| MUS 4160  | SYMPHONIC WIND ENSEMBLE (^)  |
| <b>Music History/Theory Course</b>  | <b>3</b>   |
| <b>Select one of the following:</b>   |  |
| MUS 4440  | MUSIC SINCE 1945 (^)   |
| MUS 4540  | RENAISSANCE MUSIC LITERATURE (^)                                     |
| MUS 4550  | BAROQUE MUSIC LITERATURE (^)   |
| MUS 4560  | CLASSICAL MUSIC LITERATURE (^)                                       |
| MUS 4570  | ROMANTIC MUSIC LITERATURE (^)  |
| MUS 4580  | MUSIC FROM 1900 - 1945 (^)   |
| MUS 4720  | CHORAL LITERATURE (^)  |
| <b>ELECTIVES</b>  |  |
| Elective hours as required to reach a total of 120 hours  |  |
| <b>Music, Bachelor of Arts Music - Concentration in Music Studies Instrumental Four Year Plan</b> |  |
| <b>Freshman</b>   |  |
| <b>Fall</b>   |  |
| <b>Credits</b>  |  |
| MUS 1000  | CONVOCATION 0  |
| MUS 115   | APPLIED LESSONS 1  |
| MUS 1400  | MUSIC FUNDAMENTALS 3   |
| Ensemble  | 1  |
| ENGL 1150   | ENGLISH COMPOSITION I 3  |
| Natural/Physical with Laboratory  | 4  |

|  |   |           |
|--|---|-----------|
| CMST 1110                              | PUBLIC SPEAKING FUNDS                     | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Spring</b>                          |   |           |
| MUS 1000                               | CONVOCATION                               | 0         |
| MUS 115                                | Applied Lessons                           | 1         |
| Ensemble                               |   | 1         |
| MUS 1410                               | MUSIC CORE CURRICULUM I                   | 4         |
| ENGL 1160                              | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Data Literacy                          |   | 3         |
| Elective                               |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Sophomore</b>                       |   |           |
| <b>Fall</b>                            |   |           |
| MUS 1000                               | CONVOCATION                               | 0         |
| MUS 215                                | Applied Lessons                           | 1         |
| Ensemble                               |   | 1         |
| MUS 1420                               | MUSIC CORE CURRICULUM II                  | 4         |
| MUS 2550                               | MUSIC HISTORY I                           | 3         |
| General Education                      |   | 3         |
| Electives                              |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Spring</b>                          |   |           |
| MUS 1000                               | CONVOCATION                               | 0         |
| MUS 215                                | Applied Lessons                           | 1         |
| Ensemble                               |   | 1         |
| MUS 2410                               | MUSIC CORE CURRICULUM III                 | 4         |
| MUS 2560                               | MUSIC HISTORY II                          | 3         |
| General Education                      |   | 3         |
| Elective                               |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |
| <b>Junior</b>                          |   |           |
| <b>Fall</b>                            |   |           |
| MUS 1000                               | CONVOCATION                               | 0         |
| MUS 315                                | Applied Lessons                           | 1         |
| Ensemble                               |   | 1         |
| MUS 2420                               | MUSIC CORE CURRICULUM IV                  | 4         |
| MUS 2600                               | FUNDAMENTALS OF CONDUCTING                | 2         |
| General Education                      |   | 3         |
| General Education                      |   | 3         |
| Elective                               |   | 3         |
| <b>Credits</b>                         |   | <b>17</b> |
| <b>Spring</b>                          |   |           |
| MUS 1000                               | CONVOCATION                               | 0         |
| MUS 315                                | Applied Lessons                           | 1         |
| Ensemble                               |   | 1         |
| MUS 3660                               | ADVANCED CONDUCTING                       | 2         |
| History/Theory Elective Course         |   | 3         |
| Elective                               |   | 3         |
| Elective                               |   | 3         |
| General Education - Cultural Knowledge |   | 3         |
| <b>Credits</b>                         |   | <b>16</b> |
| <b>Senior</b>                          |   |           |
| <b>Fall</b>                            |   |           |
| MUS 1000                               | CONVOCATION                               | 0         |
| MUS 415                                | Applied Lessons                           | 1         |

|                                    |                 |            |
|------------------------------------|-----------------|------------|
| Ensemble                           |                 | 1          |
| General Education                  |                 | 3          |
| General Education Civic Engagement |                 | 3          |
| Elective                           |                 | 3          |
| Elective                           |                 | 3          |
| <b>Credits</b>                     |                 | <b>14</b>  |
| <b>Spring</b>                      |                 |            |
| MUS 1000                           | CONVOCATION     | 0          |
| MUS 415                            | Applied Lessons | 1          |
| Ensemble                           |                 | 1          |
| MUS 4190                           | RECITAL         | 1          |
| Elective                           |                 | 4          |
| Elective                           |                 | 3          |
| General Education                  |                 | 3          |
| <b>Credits</b>                     |                 | <b>13</b>  |
| <b>Total Credits</b>               |                 | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Jazz Studies Concentration Music, Bachelor of Arts in Music - Concentration in Jazz Studies Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |

|   |  |
|---|--|
| or CMST 2120  | ARGUMENTATION AND DEBATE   |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING              |
| or MATH 1130  | QUANTITATIVE LITERACY  |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                  |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT   |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                                      |
| STAT 1530   | ELEMENTARY STATISTICS  |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge</b>   |  |
| <b>13</b>   |  |
| Social Science – 3 hrs.   |  |
| Humanities – 3 hrs.   |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility</b>   |  |
| <b>6</b>  |  |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS - 53 Hours Required</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following:</b>  |  |
| <b>53</b>   |  |
| MUS 1400  | MUSIC FUNDAMENTALS (^)   |
| MUS 1070  | MUSIC OF THE PEOPLE: ROCK AND POP (**)                               |
| MUS 1410  | MUSIC CORE CURRICULUM I  |
| MUS 1420  | MUSIC CORE CURRICULUM II   |
| MUS 4300  | BUSINESS OF MUSIC (^)  |
| MUS 3170  | EXPLORING MUSIC TECHNOLOGY   |
| MUS 1100  | MUSIC OF THE PEOPLE: JAZZ  |
| MUS 4590  | AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP                 |
| MUS 115   | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 215:  | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 315:  | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 415:  | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 169D  | APPLIED CLASS JAZZ PIANO   |
| MUS 2480  | JAZZ IMPROVISATION AND THEORY (^)                                    |
| MUS 1000  | CONVOCATION (^ Required for each semester enrolled in applied music) |
| MUS 4830  | ARRANGING FOR JAZZ ENSEMBLE II                                       |
| MUS 2480  | JAZZ IMPROVISATION AND THEORY  |
| MUS 3200  | JAZZ PEDAGOGY (^)  |
| MUS 4190  | RECITAL (^)  |
| MUS 4430  | ARRANGING FOR JAZZ ENSEMBLE (^)                                      |
| Ensemble/Chamber Music - 5 courses at 1 credit  |  |
| <b>ELECTIVES</b>  |  |
| Elective hours as required to reach a total of 120 hours  |  |

# Music, Bachelor of Arts in Music - Concentration in Jazz Studies Four Year Plan

## Freshman

| Fall                                     |                       | Credits   |
|--|-----------------------|-----------|
| MUS 1000                                 | CONVOCATION           | 0         |
| MUS 115                                  | Applied Lessons       | 1         |
| Ensemble                                 |                       | 1         |
| ENGL 1150                                | ENGLISH COMPOSITION I | 3         |
| CMST 1110                                | PUBLIC SPEAKING FUNDS | 3         |
| Natural/Physical Science with Laboratory |                       | 4         |
| MUS 1400                                 | MUSIC FUNDAMENTALS    | 3         |
| <b>Credits</b>                           |                       | <b>15</b> |

## Spring

|                |   |           |
|----------------|---|-----------|
| MUS 1000       | CONVOCATION                               | 0         |
| MUS 115        | Applied Lesson                            | 1         |
| Ensemble       |   | 1         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Elective       |   | 3         |
| Data Literacy  |   | 3         |
| MUS 1410       | MUSIC CORE CURRICULUM I                   | 4         |
| <b>Credits</b> |   | <b>15</b> |

## Sophomore

| Fall              |                            | Credits   |
|-------------------|----------------------------|-----------|
| MUS 1000          | CONVOCATION                | 0         |
| MUS 215           | Applied Lessons            | 1         |
| Ensemble          |                            | 1         |
| MUS 1420          | MUSIC CORE CURRICULUM II   | 4         |
| General Education |                            | 3         |
| MUS 3170          | EXPLORING MUSIC TECHNOLOGY | 3         |
| Elective Credits  |                            | 3         |
| <b>Credits</b>    |                            | <b>15</b> |

## Spring

|                |                               |           |
|----------------|-------------------------------|-----------|
| MUS 1000       | CONVOCATION                   | 0         |
| MUS 215        | Applied Lessons               | 1         |
| Ensemble       |                               | 1         |
| Social Science |                               | 3         |
| Electives      |                               | 6         |
| MUS 169D       | APPLIED CLASS JAZZ PIANO      | 1         |
| MUS 2480       | JAZZ IMPROVISATION AND THEORY | 3         |
| <b>Credits</b> |                               | <b>15</b> |

## Junior

| Fall              |  | Credits   |
|-------------------|--|-----------|
| MUS 1000          | CONVOCATION  | 0         |
| MUS 315           | Applied Lessons                                      | 1         |
| Ensemble          |  | 1         |
| MUS 4590          | AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP | 3         |
| MUS 4430          | ARRANGING FOR JAZZ ENSEMBLE                          | 3         |
| General Education |  | 3         |
| Elective          |  | 4         |
| <b>Credits</b>    |  | <b>15</b> |

## Spring

|          |             |   |
|----------|-------------|---|
| MUS 1000 | CONVOCATION | 0 |
|----------|-------------|---|

|                   |                                |           |
|-------------------|--------------------------------|-----------|
| MUS 315           | Applied Lessons                | 1         |
| Ensemble          |                                | 1         |
| Elective Credits  |                                | 6         |
| MUS 4830          | ARRANGING FOR JAZZ ENSEMBLE II | 3         |
| General Education |                                | 3         |
| MUS 3200          | JAZZ PEDAGOGY                  | 1         |
| <b>Credits</b>    |                                | <b>15</b> |

## Senior

| Fall              |                   | Credits   |
|-------------------|-------------------|-----------|
| MUS 1000          | CONVOCATION       | 0         |
| MUS 415           | Applied Lessons   | 1         |
| Ensemble          |                   | 1         |
| Elective Credits  |                   | 7         |
| MUS 4300          | BUSINESS OF MUSIC | 3         |
| General Education |                   | 3         |
| <b>Credits</b>    |                   | <b>15</b> |

## Spring

|                |                 |           |
|----------------|-----------------|-----------|
| MUS 1000       | CONVOCATION     | 0         |
| MUS 415        | Applied Lessons | 1         |
| Ensemble       |                 | 1         |
| MUS 4190       | RECITAL         | 1         |
| Elective       |                 | 3         |
| Elective       |                 | 3         |
| Elective       |                 | 3         |
| Elective       |                 | 3         |
| <b>Credits</b> |                 | <b>15</b> |

**Total Credits 120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

# Music Studies Keyboard Concentration

## Music, Bachelor of Arts in Music - Concentration in Music Studies Keyboard Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one of the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS – 47 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>40</b> |
| MUS 1400  | MUSIC FUNDAMENTALS (^)                                  |           |
| MUS 1410  | MUSIC CORE CURRICULUM I (^)                             |           |
| MUS 1420  | MUSIC CORE CURRICULUM II (^)                            |           |
| MUS 2410  | MUSIC CORE CURRICULUM III (^)                           |           |
| MUS 2550  | MUSIC HISTORY I   |           |
| MUS 2560  | MUSIC HISTORY II  |           |
| MUS 2600  | FUNDAMENTALS OF CONDUCTING (^)                          |           |
| MUS 115   | APPLIED MUSIC - 2 semesters at 1 credit                 |           |
| MUS 215   | APPLIED MUSIC - 2 semesters at 1 credit                 |           |
| MUS 315   | APPLIED MUSIC - 2 semesters at 1 credit                 |           |
| MUS 415   | APPLIED MUSIC - 2 semesters at 1 credit                 |           |

|   |  |          |
|---|--|----------|
| MUS 1000  | CONVOCATION (^ Required for each semester enrolled in applied music) |          |
| MUS 2420  | MUSIC CORE CURRICULUM IV (^)   |          |
| MUS 2790  | COLLABORATIVE PIANO (^ two semesters at 1 credit)                    |          |
| MUS 3660  | ADVANCED CONDUCTING (^)  |          |
| MUS 4190  | RECITAL (^)  |          |
| <b>Ensemble/Chamber Music - 4 courses at 1 credit</b> |  | <b>4</b> |
| MUS 2700  | UNIVERSITY CHORUS (** ^)   |          |
| MUS 2740  | CHAMBER MUSIC (^)  |          |
| MUS 2760  | UNIVERSITY CONCERT BAND (** ^)                                       |          |
| MUS 4100  | CONCERT CHOIR (^)  |          |
| MUS 4130  | UNIVERSITY ORCHESTRA (^)   |          |
| MUS 4160  | SYMPHONIC WIND ENSEMBLE (^)  |          |
| <b>Music History/Theory Elective Course</b>           |  | <b>3</b> |
| <b>Select one of the following:</b>                   |  |          |
| MUS 4440  | MUSIC SINCE 1945 (^)   |          |
| MUS 4540  | RENAISSANCE MUSIC LITERATURE (^)                                     |          |
| MUS 4550  | BAROQUE MUSIC LITERATURE (^)   |          |
| MUS 4560  | CLASSICAL MUSIC LITERATURE (^)                                       |          |
| MUS 4570  | ROMANTIC MUSIC LITERATURE (^)  |          |
| MUS 4580  | MUSIC FROM 1900 - 1945 (^)   |          |
| MUS 4720  | CHORAL LITERATURE (^)  |          |
| <b>ELECTIVES</b>                                      |  |          |

Elective hours as required to reach a total of 120 hours

## Music, Bachelor of Arts in Music - Concentration in Music Studies Keyboard Four Year Plan

| <b>Freshman</b>                          |   |                |
|--|---|----------------|
| <b>Fall</b>                              |   | <b>Credits</b> |
| MUS 1000                                 | CONVOCATION                               | 0              |
| MUS 115                                  | Applied Lessons                           | 1              |
| MUS 1400                                 | MUSIC FUNDAMENTALS                        | 3              |
| Ensemble                                 |   | 1              |
| ENGL 1150                                | ENGLISH COMPOSITION I                     | 3              |
| Natural/Physical Science with Laboratory |   | 4              |
| CMST 1110                                | PUBLIC SPEAKING FUNDS                     | 3              |
| <b>Credits</b>                           |   | <b>15</b>      |
| <b>Spring</b>                            |   |                |
| MUS 1000                                 | CONVOCATION                               | 0              |
| MUS 115                                  | Applied Lessons                           | 1              |
| Ensemble                                 |   | 1              |
| MUS 1410                                 | MUSIC CORE CURRICULUM I                   | 4              |
| ENGL 1160                                | COLLEGE RESEARCH AND INFORMATION LITERACY | 3              |
| Elective                                 |   | 3              |
| Data Literacy                            |   | 3              |
| <b>Credits</b>                           |   | <b>15</b>      |
| <b>Sophomore</b>                         |   |                |
| <b>Fall</b>                              |   |                |
| MUS 1000                                 | CONVOCATION                               | 0              |
| MUS 215                                  | Applied Lessons                           | 1              |
| Ensemble                                 |   | 1              |
| MUS 1420                                 | MUSIC CORE CURRICULUM II                  | 4              |
| MUS 2550                                 | MUSIC HISTORY I                           | 3              |

|                                      |                            |            |
|--------------------------------------|----------------------------|------------|
| General Education                    |                            | 3          |
| College Algebra or Equivalent        |                            | 3          |
| <b>Credits</b>                       |                            | <b>15</b>  |
| <b>Spring</b>                        |                            |            |
| MUS 1000                             | CONVOCATION                | 0          |
| MUS 215                              | Applied Lessons            | 1          |
| Ensemble                             |                            | 1          |
| MUS 2410                             | MUSIC CORE CURRICULM III   | 4          |
| MUS 2560                             | MUSIC HISTORY II           | 3          |
| General Education                    |                            | 3          |
| Elective                             |                            | 3          |
| <b>Credits</b>                       |                            | <b>15</b>  |
| <b>Junior</b>                        |                            |            |
| <b>Fall</b>                          |                            |            |
| MUS 1000                             | CONVOCATION                | 0          |
| MUS 315                              | Applied Lessons            | 1          |
| Ensemble                             |                            | 1          |
| MUS 2420                             | MUSIC CORE CURRICULM IV    | 4          |
| MUS 2600                             | FUNDAMENTALS OF CONDUCTING | 2          |
| General Education                    |                            | 3          |
| Elective                             |                            | 3          |
| <b>Credits</b>                       |                            | <b>14</b>  |
| <b>Spring</b>                        |                            |            |
| MUS 1000                             | CONVOCATION                | 0          |
| MUS 315                              | Applied Lessons            | 1          |
| Ensemble                             |                            | 1          |
| MUS 3660                             | ADVANCED CONDUCTING        | 2          |
| History/Theory Elective Course       |                            | 3          |
| Elective                             |                            | 3          |
| Elective                             |                            | 3          |
| General Education                    |                            | 3          |
| <b>Credits</b>                       |                            | <b>16</b>  |
| <b>Senior</b>                        |                            |            |
| <b>Fall</b>                          |                            |            |
| MUS 1000                             | CONVOCATION                | 0          |
| MUS 415                              | Applied Lessons            | 1          |
| Ensemble                             |                            | 1          |
| General Education - Civic Engagement |                            | 3          |
| Elective                             |                            | 4          |
| Elective                             |                            | 3          |
| Elective                             |                            | 3          |
| <b>Credits</b>                       |                            | <b>15</b>  |
| <b>Spring</b>                        |                            |            |
| MUS 1000                             | CONVOCATION                | 0          |
| MUS 415                              | Applied Lessons            | 1          |
| Ensemble                             |                            | 1          |
| MUS 4190                             | RECITAL                    | 1          |
| Elective                             |                            | 3          |
| Elective                             |                            | 3          |
| Elective                             |                            | 3          |
| General Education                    |                            | 3          |
| <b>Credits</b>                       |                            | <b>15</b>  |
| <b>Total Credits</b>                 |                            | <b>120</b> |

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This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Music Technology Concentration

### Music, Bachelor of Arts in Music - Concentration in Music Technology Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |



Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 48 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 46**

MUS 1390 BASIC MUSICIANSHIP (^)  
 MUS 1400 MUSIC FUNDAMENTALS (^)  
 MUS 1430 COMMERCIAL MUSIC THEORY I (^)  
 MUS 2430 COMMERCIAL MUSIC THEORY 2 (^)  
 MUS 1070 MUSIC OF THE PEOPLE: ROCK AND POP (\*\*)

MUS 1170 FOUNDATIONS OF MUSIC TECHNOLOGY

MUS 4300 BUSINESS OF MUSIC (^)

MUS 4590 AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP

MUS 1010 MUSIC TECHNOLOGY NOW (^ 8 semesters)

MUS 2800 SOUND REINFORCEMENT (^)

MUS 3180 ELECTRONIC MUSIC PRODUCTION

MUS 2300 SOUND DESIGN FOR VIDEO GAMES, FILM, AND SOUND ART

MUS 2200 AUDIO RECORDING TECHNIQUES I (^)

MUS 3210 AUDIO RECORDING TECHNIQUES II (^)

MUS 4240 ADVANCED AUDIO RECORDING TECHNIQUES (^)

MUS 4280 ADVANCED TOPICS IN MUSIC TECHNOLOGY (^)

MUS 4290 MUSIC CAPSTONE PROJECT (^)

**ENSEMBLES: 2 courses at 1 credit hour 2**

MUS 2700 UNIVERSITY CHORUS (\*\* ^)

MUS 2740 CHAMBER MUSIC (^)

MUS 2760 UNIVERSITY CONCERT BAND (\*\* ^)

MUS 2770 JAZZ ENSEMBLE (^)

MUS 4100 CONCERT CHOIR (^)

MUS 4130 UNIVERSITY ORCHESTRA (^)

MUS 4160 SYMPHONIC WIND ENSEMBLE (^)

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Music, Bachelor of Arts in Music - Concentration in Music Technology Four Year Plan

**Freshman**

| Fall           |                                 | Credits   |
|----------------|---------------------------------|-----------|
| MUS 1010       | MUSIC TECHNOLOGY NOW            | 0         |
| MUS 1170       | FOUNDATIONS OF MUSIC TECHNOLOGY | 3         |
| CMST 1110      | PUBLIC SPEAKING FUNDS           | 3         |
| ENGL 1150      | ENGLISH COMPOSITION I           | 3         |
| MATH           |                                 | 3         |
| <b>Credits</b> |                                 | <b>12</b> |

**Spring**

|                 |                              |           |
|-----------------|------------------------------|-----------|
| MUS 1010        | MUSIC TECHNOLOGY NOW         | 0         |
| MUS 1390        | BASIC MUSICIANSHIP           | 3         |
| MUS 2200        | AUDIO RECORDING TECHNIQUES I | 3         |
| English Comp II |                              | 3         |
| Data Literacy   |                              | 3         |
| Elective        |                              | 3         |
| <b>Credits</b>  |                              | <b>15</b> |

**Sophomore****Fall**

|                                  |                                   |           |
|----------------------------------|-----------------------------------|-----------|
| MUS 1010                         | MUSIC TECHNOLOGY NOW              | 0         |
| MUS 1400                         | MUSIC FUNDAMENTALS                | 3         |
| MUS 3210                         | AUDIO RECORDING TECHNIQUES II     | 3         |
| MUS 1070                         | MUSIC OF THE PEOPLE: ROCK AND POP | 3         |
| Natural/Physical with Laboratory |                                   | 4         |
| General Education                |                                   | 3         |
| <b>Credits</b>                   |                                   | <b>16</b> |

**Spring**

|                   |                                     |           |
|-------------------|-------------------------------------|-----------|
| MUS 1010          | MUSIC TECHNOLOGY NOW                | 0         |
| MUS 1430          | COMMERCIAL MUSIC THEORY I           | 3         |
| MUS 4240          | ADVANCED AUDIO RECORDING TECHNIQUES | 3         |
| MUS 2800          | SOUND REINFORCEMENT                 | 3         |
| Elective          |                                     | 3         |
| General Education |                                     | 3         |
| <b>Credits</b>    |                                     | <b>15</b> |

**Junior****Fall**

|                   |  |           |
|-------------------|--|-----------|
| MUS 1010          | MUSIC TECHNOLOGY NOW                                 | 0         |
| MUS 2430          | COMMERCIAL MUSIC THEORY 2                            | 3         |
| MUS 4590          | AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP | 3         |
| MUS 3180          | ELECTRONIC MUSIC PRODUCTION                          | 3         |
| Elective          |  | 3         |
| Ensemble          |  | 1         |
| General Education |  | 3         |
| <b>Credits</b>    |  | <b>16</b> |

**Spring**

|                   |   |           |
|-------------------|---|-----------|
| MUS 1010          | MUSIC TECHNOLOGY NOW                              | 0         |
| MUS 2300          | SOUND DESIGN FOR VIDEO GAMES, FILM, AND SOUND ART | 3         |
| MUS 4300          | BUSINESS OF MUSIC                                 | 3         |
| Elective          |   | 3         |
| Elective          |   | 3         |
| General Education |   | 3         |
| <b>Credits</b>    |   | <b>15</b> |

**Senior****Fall**

|                   |                                     |           |
|-------------------|-------------------------------------|-----------|
| MUS 1010          | MUSIC TECHNOLOGY NOW                | 0         |
| MUS 4280          | ADVANCED TOPICS IN MUSIC TECHNOLOGY | 3         |
| Elective          |                                     | 3         |
| Electives         |                                     | 6         |
| Ensemble          |                                     | 1         |
| General Education |                                     | 3         |
| <b>Credits</b>    |                                     | <b>16</b> |

**Spring**

|                      |                        |            |
|----------------------|------------------------|------------|
| MUS 1010             | MUSIC TECHNOLOGY NOW   | 0          |
| MUS 4290             | MUSIC CAPSTONE PROJECT | 1          |
| Elective             |                        | 2          |
| Elective             |                        | 3          |
| Elective             |                        | 3          |
| Elective             |                        | 3          |
| General Education    |                        | 3          |
| <b>Credits</b>       |                        | <b>15</b>  |
| <b>Total Credits</b> |                        | <b>120</b> |

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**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Music Studies Voice Concentration

### Music, Bachelor of Arts in Music - Concentration in Music Studies Voice Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |

|              |   |
|--------------|---|
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                        |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS – 47 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 40**

|             |  |
|-------------|--|
| MUS 1400    | MUSIC FUNDAMENTALS (^)   |
| MUS 1410    | MUSIC CORE CURRICULUM I (^)  |
| MUS 1420    | MUSIC CORE CURRICULUM II (^)   |
| MUS 2410    | MUSIC CORE CURRICULUM III (^)  |
| MUS 2550    | MUSIC HISTORY I  |
| MUS 2560    | MUSIC HISTORY II   |
| MUS 2600    | FUNDAMENTALS OF CONDUCTING (^)                                       |
| MUS 115     | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 215     | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 315     | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 415     | APPLIED MUSIC - 2 semesters at 1 credit                              |
| MUS 1000    | CONVOCATION (^ Required for each semester enrolled in applied music) |
| MUS 1640    | DICTION FOR SINGERS I (^)  |
| MUS 1660    | DICTION FOR SINGERS II (^)   |
| MUS 2420    | MUSIC CORE CURRICULUM IV (^)   |
| MUS 3660    | ADVANCED CONDUCTING (^)  |
| MUS 4190    | RECITAL (^)  |
| or MUS 4290 | MUSIC CAPSTONE PROJECT   |

**Ensemble/Chamber Music - 4 courses at 1 credit 4**

|          |                                |
|----------|--------------------------------|
| MUS 2700 | UNIVERSITY CHORUS (** ^)       |
| MUS 2740 | CHAMBER MUSIC (^)              |
| MUS 2760 | UNIVERSITY CONCERT BAND (** ^) |
| MUS 2770 | JAZZ ENSEMBLE (^)              |
| MUS 4100 | CONCERT CHOIR (^)              |
| MUS 4130 | UNIVERSITY ORCHESTRA (^)       |
| MUS 4160 | SYMPHONIC WIND ENSEMBLE (^)    |

**Music History/Theory Elective Course 3**

Select one of the following:

|          |                                  |
|----------|----------------------------------|
| MUS 4440 | MUSIC SINCE 1945 (^)             |
| MUS 4540 | RENAISSANCE MUSIC LITERATURE (^) |
| MUS 4550 | BAROQUE MUSIC LITERATURE (^)     |
| MUS 4560 | CLASSICAL MUSIC LITERATURE (^)   |
| MUS 4570 | ROMANTIC MUSIC LITERATURE (^)    |
| MUS 4580 | MUSIC FROM 1900 - 1945 (^)       |

## MUS 4720 CHORAL LITERATURE (^)

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Music, Bachelor of Arts in Music - Concentration in Music Studies Voice Four Year Plan

**Freshman**

| <b>Fall</b>                              |                       | <b>Credits</b> |
|--|-----------------------|----------------|
| MUS 1000                                 | CONVOCATION           | 0              |
| Applied Lessons (MUS 115)                |                       | 1              |
| MUS 1400                                 | MUSIC FUNDAMENTALS    | 3              |
| Ensemble                                 |                       | 1              |
| ENGL 1150                                | ENGLISH COMPOSITION I | 3              |
| Natural/Physical Science with Laboratory |                       | 4              |
| CMST 1110                                | PUBLIC SPEAKING FUNDS | 3              |
| <b>Credits</b>                           |                       | <b>15</b>      |

**Spring**

|                           |   |   |
|---------------------------|---|---|
| MUS 1000                  | CONVOCATION                               | 0 |
| Applied Lessons (MUS 115) |   | 1 |
| Ensemble                  |   | 1 |
| MUS 1410                  | MUSIC CORE CURRICULUM I                   | 4 |
| ENGL 1160                 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| DATA LITERACY             |   | 3 |
| Elective                  |   | 3 |

**Credits 15****Sophomore**

| <b>Fall</b>                   |                          |   |
|-------------------------------|--------------------------|---|
| MUS 1000                      | CONVOCATION              | 0 |
| Applied Lessons (MUS 215)     |                          | 1 |
| Ensemble                      |                          | 1 |
| MUS 1420                      | MUSIC CORE CURRICULUM II | 4 |
| MUS 2550                      | MUSIC HISTORY I          | 3 |
| General Education             |                          | 3 |
| College Algebra or Equivalent |                          | 3 |

**Credits 15****Spring**

|                           |                           |   |
|---------------------------|---------------------------|---|
| MUS 1000                  | CONVOCATION               | 0 |
| Applied Lessons (MUS 215) |                           | 1 |
| Ensemble                  |                           | 1 |
| MUS 2410                  | MUSIC CORE CURRICULUM III | 4 |
| MUS 2560                  | MUSIC HISTORY II          | 3 |
| General Education         |                           | 3 |
| Elective                  |                           | 3 |

**Credits 15****Junior**

| <b>Fall</b>               |                            |   |
|---------------------------|----------------------------|---|
| MUS 1000                  | CONVOCATION                | 0 |
| Applied Lessons (MUS 315) |                            | 1 |
| Ensemble                  |                            | 1 |
| MUS 2420                  | MUSIC CORE CURRICULUM IV   | 4 |
| MUS 2600                  | FUNDAMENTALS OF CONDUCTING | 2 |
| General Education         |                            | 3 |

Elective 3

**Credits 14****Spring**

|                                |                     |   |
|--------------------------------|---------------------|---|
| MUS 1000                       | CONVOCATION         | 0 |
| Applied Lessons (MUS 315)      |                     | 1 |
| Ensemble                       |                     | 1 |
| General Education              |                     | 3 |
| MUS 3660                       | ADVANCED CONDUCTING | 2 |
| History/Theory Elective Course |                     | 3 |
| General Education              |                     | 3 |
| Elective                       |                     | 3 |

**Credits 16****Senior**

| <b>Fall</b>               |             |   |
|---------------------------|-------------|---|
| MUS 1000                  | CONVOCATION | 0 |
| Applied Lessons (MUS 415) |             | 1 |
| Ensemble                  |             | 1 |
| GENERAL EDUCATION         |             | 3 |
| GENERAL EDUCATION         |             | 3 |
| Elective                  |             | 3 |
| Elective                  |             | 3 |
| Elective                  |             | 1 |

**Credits 15****Spring**

|                                      |             |   |
|--------------------------------------|-------------|---|
| MUS 1000                             | CONVOCATION | 0 |
| Applied Lessons (MUS 415)            |             | 1 |
| Ensemble                             |             | 1 |
| MUS 4190                             | RECITAL     | 1 |
| Elective                             |             | 3 |
| Elective                             |             | 3 |
| Elective                             |             | 3 |
| General Education - Civic Engagement |             | 3 |

**Credits 15****Total Credits 120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

# Music Performance, Bachelor of Music

## Music, Performance, Bachelor of Music Requirements

| Code  | Title   | Credits      |
|---|---|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |              |
| Minimum of "C-" required  |   |              |
| <b>Fundamental Skills</b>   |   | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |   |              |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |              |
| <b>Oral Communication – 3 hrs.</b>  |   |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |              |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |              |
| STAT 1530   | ELEMENTARY STATISTICS                                   |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| <b>MAJOR REQUIREMENTS – 30 Hours Required</b>   |   |              |
| **Course will satisfy UNO's General Education requirement   |   |              |
| ^Course requires pre-requisite(s)   |   |              |
| <b>All of the following:</b>  |   | <b>30</b>    |
| MUS 1410  | MUSIC CORE CURRICULUM I (^)                             |              |
| MUS 1420  | MUSIC CORE CURRICULUM II (^)                            |              |
| MUS 2410  | MUSIC CORE CURRICULUM III (^)                           |              |
| MUS 2420  | MUSIC CORE CURRICULUM IV (^)                            |              |
| MUS 2550  | MUSIC HISTORY I   |              |
| MUS 2560  | MUSIC HISTORY II  |              |
| MUS 2600  | FUNDAMENTALS OF CONDUCTING (^)                          |              |
| MUS 3400  | FORM AND ANALYSIS (^)                                   |              |
| MUS 3660  | ADVANCED CONDUCTING (^)                                 |              |
| MUS 4450  | ORCHESTRATION (^)                                       |              |
| <b>Select a Concentration</b>   |   | <b>46-47</b> |

Music Performance: Brass

Music Performance: Jazz

Music Performance: Keyboard

Music Performance: Percussion

Music Performance: String

Music Performance: Voice

Music Performance: Woodwind

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Music Performance, Bachelor of Music Concentrations

- Music Performance: Brass (p. 457)
- Music Performance: Jazz (p. 459)
- Music Performance: Keyboard (p. 461)
- Music Performance: Percussion (p. 462)
- Music Performance: String (p. 464)
- Music Performance: Voice (p. 466)
- Music Performance: Woodwind (p. 468)

## Music Performance Brass Concentration

## Music Performance, Bachelor of Music - Brass Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 30 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 30**

|          |                                |
|----------|--------------------------------|
| MUS 1410 | MUSIC CORE CURRICULUM I (^)    |
| MUS 1420 | MUSIC CORE CURRICULUM II (^)   |
| MUS 2410 | MUSIC CORE CURRICULUM III (^)  |
| MUS 2420 | MUSIC CORE CURRICULUM IV (^)   |
| MUS 2550 | MUSIC HISTORY I                |
| MUS 2560 | MUSIC HISTORY II               |
| MUS 2600 | FUNDAMENTALS OF CONDUCTING (^) |
| MUS 3400 | FORM AND ANALYSIS (^)          |
| MUS 3660 | ADVANCED CONDUCTING (^)        |
| MUS 4450 | ORCHESTRATION (^)              |

**Concentration Music Performance: Brass 46 Hours Required****All of the following: 29**

|          |  |
|----------|--|
| MUS 115  | Applied Music - 2 semesters at 2 credits                             |
| MUS 215  | Applied Music - 2 semesters at 2 credits                             |
| MUS 315  | Applied Music - 2 semesters at 2 credits                             |
| MUS 415  | Applied Music - 2 semesters at 2 credits                             |
| MUS 167B | APPLIED CLASS - PIANO (Fall Semester)                                |
| MUS 167B | APPLIED CLASS - PIANO (Spring Semester)                              |
| MUS 167C | APPLIED CLASS - VOICE I  |
| MUS 1000 | CONVOCATION (^ Required for each semester enrolled in applied music) |
| MUS 1690 | KEYBOARD SKILLS I (^)  |
| MUS 2690 | KEYBOARD SKILLS II (^)   |
| MUS 3190 | JUNIOR/NON DEGREE RECITAL (^)  |
| MUS 4190 | RECITAL (^)  |
| MUS 4620 | INSTRUMENTAL PEDAGOGY  |
| MUS 4750 | INSTRUMENTAL LITERATURE (^)  |

**Ensemble/Chamber Music - 8 courses at 1 credit 8****Music History/Theory Course 3**

Select one of the following:

|          |                                  |
|----------|----------------------------------|
| MUS 4440 | MUSIC SINCE 1945 (^)             |
| MUS 4530 | HISTORY OF WESTERN OPERA (^)     |
| MUS 4540 | RENAISSANCE MUSIC LITERATURE (^) |
| MUS 4550 | BAROQUE MUSIC LITERATURE (^)     |
| MUS 4560 | CLASSICAL MUSIC LITERATURE (^)   |
| MUS 4570 | ROMANTIC MUSIC LITERATURE (^)    |
| MUS 4580 | MUSIC FROM 1900 - 1945 (^)       |

Note: Other courses may be eligible upon approval from the Director

**Entrepreneurship/Technology Courses 6**

Select two from the following:

|           |                                  |
|-----------|----------------------------------|
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)  |
| MUS 2800  | SOUND REINFORCEMENT (^)          |
| MUS 3170  | EXPLORING MUSIC TECHNOLOGY       |
| MUS 4200  | AUDIO RECORDING TECHNIQUES I (^) |
| MUS 4300  | BUSINESS OF MUSIC (^)            |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Music Performance, Bachelor of Music - Brass Concentration Four Year Plan

**Freshman**

| Fall                              |                         | Credits   |
|-----------------------------------|-------------------------|-----------|
| MUS 1000                          | CONVOCATION             | 0         |
| MUS 115                           |                         | 2         |
| Ensemble                          |                         | 1         |
| MUS 1400                          | MUSIC FUNDAMENTALS      | 3         |
| MUS 167B                          | APPLIED CLASS - PIANO   | 1         |
| MUS 167C                          | APPLIED CLASS - VOICE I | 1         |
| ENGL 1150                         | ENGLISH COMPOSITION I   | 3         |
| Natural/Physical Science with Lab |                         | 4         |
| <b>Credits</b>                    |                         | <b>15</b> |

**Spring**

|                                     |   |           |
|-------------------------------------|---|-----------|
| MUS 1000                            | CONVOCATION                               | 0         |
| MUS 115                             |   | 2         |
| Ensemble                            |   | 1         |
| MUS 1410                            | MUSIC CORE CURRICULUM I                   | 4         |
| MUS 167B                            | APPLIED CLASS - PIANO                     | 1         |
| ENGL 1160                           | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Instrumental Pedagogy or Literature |   | 3         |
| <b>Credits</b>                      |   | <b>14</b> |

**Sophomore****Fall**

|                |                          |           |
|----------------|--------------------------|-----------|
| MUS 1000       | CONVOCATION              | 0         |
| MUS 215        |                          | 2         |
| Ensemble       |                          | 1         |
| MUS 1420       | MUSIC CORE CURRICULUM II | 4         |
| MUS 2550       | MUSIC HISTORY I          | 3         |
| MUS 1690       | KEYBOARD SKILLS I        | 1         |
| CMST 1110      | PUBLIC SPEAKING FUNDS    | 3         |
| <b>Credits</b> |                          | <b>14</b> |

**Spring**

|                                     |                           |           |
|-------------------------------------|---------------------------|-----------|
| MUS 1000                            | CONVOCATION               | 0         |
| MUS 215                             |                           | 2         |
| Ensemble                            |                           | 1         |
| MUS 2410                            | MUSIC CORE CURRICULUM III | 4         |
| MUS 2560                            | MUSIC HISTORY II          | 3         |
| MUS 2690                            | KEYBOARD SKILLS II        | 1         |
| Instrumental Pedagogy or Literature |                           | 3         |
| Elective                            |                           | 1         |
| <b>Credits</b>                      |                           | <b>15</b> |

**Junior****Fall**

|                                      |                          |   |
|--------------------------------------|--------------------------|---|
| MUS 1000                             | CONVOCATION              | 0 |
| MUS 315                              |                          | 2 |
| Ensemble                             |                          | 1 |
| MUS 2420                             | MUSIC CORE CURRICULUM IV | 4 |
| Entrepreneurship/Technology Elective |                          | 3 |
| General Education - Data Literacy    |                          | 3 |



|  |                            |            |
|--|----------------------------|------------|
| History/Theory Elective                |                            | 3          |
| <b>Credits</b>                         |                            | <b>16</b>  |
| <b>Spring</b>                          |                            |            |
| MUS 1000                               | CONVOCATION                | 0          |
| MUS 315                                |                            | 2          |
| Ensemble                               |                            | 1          |
| MUS 3190                               | JUNIOR/NON DEGREE RECITAL  | 1          |
| Form and Analysis                      |                            | 2          |
| Entrepreneurship/Technology Elective   |                            | 3          |
| General Education                      |                            | 3          |
| College Algebra or equivalent          |                            | 3          |
| <b>Credits</b>                         |                            | <b>15</b>  |
| <b>Senior</b>                          |                            |            |
| <b>Fall</b>                            |                            |            |
| MUS 1000                               | CONVOCATION                | 0          |
| MUS 415                                |                            | 2          |
| Ensemble                               |                            | 1          |
| MUS 4450                               | ORCHESTRATION              | 2          |
| MUS 2600                               | FUNDAMENTALS OF CONDUCTING | 2          |
| General Education                      |                            | 3          |
| General Education                      |                            | 3          |
| General Education - Cultural Knowledge |                            | 3          |
| <b>Credits</b>                         |                            | <b>16</b>  |
| <b>Spring</b>                          |                            |            |
| MUS 1000                               | CONVOCATION                | 0          |
| MUS 415                                |                            | 2          |
| Ensemble                               |                            | 1          |
| General Education - Civic Engagement   |                            | 3          |
| MUS 3660                               | ADVANCED CONDUCTING        | 2          |
| MUS 4190                               | RECITAL                    | 1          |
| Elective                               |                            | 3          |
| Elective                               |                            | 3          |
| <b>Credits</b>                         |                            | <b>15</b>  |
| <b>Total Credits</b>                   |                            | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Music Performance Jazz Concentration

### Music Performance, Bachelor of Music - Jazz Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 30 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>30</b> |
| MUS 1410  | MUSIC CORE CURRICULUM I                                 |           |
| MUS 1420  | MUSIC CORE CURRICULUM II                                |           |
| MUS 2410  | MUSIC CORE CURRICULUM III                               |           |
| MUS 2420  | MUSIC CORE CURRICULUM IV                                |           |
| MUS 2550  | MUSIC HISTORY I   |           |
| MUS 2560  | MUSIC HISTORY II  |           |
| MUS 2600  | FUNDAMENTALS OF CONDUCTING                              |           |
| MUS 3400  | FORM AND ANALYSIS                                       |           |
| MUS 3660  | ADVANCED CONDUCTING                                     |           |
| MUS 4450  | ORCHESTRATION   |           |
| <b>Concentration Music Performance: Jazz 46 Hours Required</b>  |   |           |

**All of the following: 46**

|   |  |
|---|--|
| MUS 115:Applied Music 2 semesters at 2 credits    |  |
| MUS 215:Applied Music 2 semesters at 2 credits    |  |
| MUS 315:Applied Music 2 semesters for 3 credits   |  |
| MUS 415:Applied Music 2 semesters for 3 credits   |  |
| MUS 167B  | APPLIED CLASS - PIANO                                |
| MUS 167B  | APPLIED CLASS - PIANO                                |
| MUS 3200  | JAZZ PEDAGOGY  |
| MUS 1000  | CONVOCATION  |
| MUS 1690  | KEYBOARD SKILLS I                                    |
| MUS 169D  | APPLIED CLASS JAZZ PIANO                             |
| MUS 3190  | JUNIOR/NON DEGREE RECITAL                            |
| MUS 4590  | AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP |
| MUS 4190  | RECITAL  |
| MUS 4430  | ARRANGING FOR JAZZ ENSEMBLE                          |
| MUS 4830  | ARRANGING FOR JAZZ ENSEMBLE II                       |
| Ensembles 7 courses at 1 credit                   |  |
| Entrepreneurship/Technology Electives - 6 credits |  |
| MUS 2480  | JAZZ IMPROVISATION AND THEORY                        |

**Electives**

Elective hours as required to reach a total of 120 hours

## Music Performance, Bachelor of Music - Jazz Concentration Four Year Plan

**Freshman**

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Fall</b>                          | <b>Credits</b>        |
| MUS 1000                             | CONVOCATION           |
| MUS 115: Applied Music               | 2                     |
| Ensemble                             | 1                     |
| General Education Course or Elective | 3                     |
| MUS 167B                             | APPLIED CLASS - PIANO |
| ENGL 1150                            | ENGLISH COMPOSITION I |
| Oral Communication                   | 3                     |
| General Education Course or Elective | 3                     |
| <b>Credits</b>                       | <b>16</b>             |

**Spring**

|                                      |   |
|--------------------------------------|---|
| MUS 1000                             | CONVOCATION                               |
| MUS 115:Applied Music                | 2   |
| Ensemble                             | 1   |
| MUS 1410                             | MUSIC CORE CURRICULUM I                   |
| MUS 167B                             | APPLIED CLASS - PIANO                     |
| General Education Course or Elective | 4   |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY |
| <b>Credits</b>                       | <b>15</b>                                 |

**Sophomore**

|                       |                          |
|-----------------------|--------------------------|
| <b>Fall</b>           |                          |
| MUS 1000              | CONVOCATION              |
| MUS 215:Applied Music | 2                        |
| Ensemble              | 1                        |
| MUS 1420              | MUSIC CORE CURRICULUM II |
| MUS 2550              | MUSIC HISTORY I          |
| MUS 1690              | KEYBOARD SKILLS I        |

|                |                               |           |
|----------------|-------------------------------|-----------|
| WRWS 3500      | CREATIVE WRITING FOR THE ARTS | 3         |
| <b>Credits</b> |                               | <b>14</b> |

**Spring**

|                       |                               |           |
|-----------------------|-------------------------------|-----------|
| MUS 1000              | CONVOCATION                   | 0         |
| MUS 215:Applied Music |                               | 2         |
| Ensemble              |                               | 1         |
| MUS 2410              | MUSIC CORE CURRICULUM III     | 4         |
| MUS 2560              | MUSIC HISTORY II              | 3         |
| MUS 169D              | APPLIED CLASS JAZZ PIANO      | 1         |
| MUS 2480              | JAZZ IMPROVISATION AND THEORY | 3         |
| <b>Credits</b>        |                               | <b>14</b> |

**Junior****Fall**

|  |  |           |
|--|--|-----------|
| MUS 1000                                   | CONVOCATION  | 0         |
| MUS 315:Applied Music                      |  | 2         |
| Ensemble                                   |  | 1         |
| MUS 2420                                   | MUSIC CORE CURRICULUM IV                             | 4         |
| MUS 4430                                   | ARRANGING FOR JAZZ ENSEMBLE                          | 3         |
| MUS 4590                                   | AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP | 3         |
| Music Entrepreneurship/Technology Elective |  | 3         |
| <b>Credits</b>                             |  | <b>16</b> |

**Spring**

|  |                                |           |
|--|--------------------------------|-----------|
| MUS 1000                                   | CONVOCATION                    | 0         |
| MUS 315:Applied Music                      |                                | 1         |
| MUS 3190                                   | JUNIOR/NON DEGREE RECITAL      | 1         |
| Ensemble                                   |                                | 1         |
| MUS 3400                                   | FORM AND ANALYSIS              | 2         |
| Music Entrepreneurship/Technology Elective |                                | 3         |
| College Algebra or equivalent              |                                | 3         |
| MUS 4830                                   | ARRANGING FOR JAZZ ENSEMBLE II | 3         |
| <b>Credits</b>                             |                                | <b>14</b> |

**Senior****Fall**

|                                      |                            |           |
|--------------------------------------|----------------------------|-----------|
| MUS 1000                             | CONVOCATION                | 0         |
| MUS 415:Applied Music                |                            | 2         |
| Ensemble                             |                            | 1         |
| MUS 4450                             | ORCHESTRATION              | 2         |
| MUS 2600                             | FUNDAMENTALS OF CONDUCTING | 2         |
| General Education Course or Elective |                            | 3         |
| General Education Course or Elective |                            | 3         |
| General Education Course or Elective |                            | 3         |
| <b>Credits</b>                       |                            | <b>16</b> |

**Spring**

|                                      |               |           |
|--------------------------------------|---------------|-----------|
| MUS 1000                             | CONVOCATION   | 0         |
| MUS 415:Applied Music                |               | 1         |
| MUS 4190                             | RECITAL       | 1         |
| MUS 3200                             | JAZZ PEDAGOGY | 1         |
| General Education Course or Elective |               | 3         |
| General Education Course or Elective |               | 3         |
| General Education Course or Elective |               | 3         |
| General Education Course or Elective |               | 3         |
| <b>Credits</b>                       |               | <b>15</b> |

**Total Credits 120**

# Music Performance Keyboard Concentration

## Music Performance, Bachelor of Music - Keyboard Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS – 30 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>30</b> |
| MUS 1410  | MUSIC CORE CURRICULUM I (^)                             |           |
| MUS 1420  | MUSIC CORE CURRICULUM II (^)                            |           |
| MUS 2410  | MUSIC CORE CURRICULUM III (^)                           |           |
| MUS 2420  | MUSIC CORE CURRICULUM IV (^)                            |           |
| MUS 2550  | MUSIC HISTORY I   |           |
| MUS 2560  | MUSIC HISTORY II  |           |
| MUS 2600  | FUNDAMENTALS OF CONDUCTING (^)                          |           |
| MUS 3400  | FORM AND ANALYSIS (^)                                   |           |
| MUS 3660  | ADVANCED CONDUCTING (^)                                 |           |
| MUS 4450  | ORCHESTRATION (^)                                       |           |
| <b>Concentration Music Performance: Keyboard - 46 Hours Required</b>  |   |           |

### All of the following: 29

|          |  |
|----------|--|
| MUS 115  | Applied Music - 2 semesters at 2 credits                             |
| MUS 215  | Applied Music - 2 semesters at 2 credits                             |
| MUS 315  | Applied Music - 2 semesters at 2 credits                             |
| MUS 415  | Applied Music - 2 semesters at 2 credits                             |
| MUS 2790 | COLLABORATIVE PIANO (^ 2 semesters at 1 credit)                      |
| MUS 1000 | CONVOCATION (^ Required for each semester enrolled in applied music) |
| MUS 167C | APPLIED CLASS - VOICE I  |
| MUS 1690 | KEYBOARD SKILLS I (^)  |
| MUS 2690 | KEYBOARD SKILLS II (^)   |
| MUS 3190 | JUNIOR/NON DEGREE RECITAL (^)  |
| MUS 4190 | RECITAL (^)  |
| MUS 4600 | PIANO PEDAGOGY (^)   |
| MUS 4730 | KEYBOARD LITERATURE (^)  |

### Ensemble/Chamber Music - 8 courses at 1 credit 8

### Music History/Theory Course 3

Select one of the following:

|          |                                  |
|----------|----------------------------------|
| MUS 4440 | MUSIC SINCE 1945 (^)             |
| MUS 4540 | RENAISSANCE MUSIC LITERATURE (^) |
| MUS 4550 | BAROQUE MUSIC LITERATURE (^)     |
| MUS 4560 | CLASSICAL MUSIC LITERATURE (^)   |
| MUS 4570 | ROMANTIC MUSIC LITERATURE (^)    |
| MUS 4580 | MUSIC FROM 1900 - 1945 (^)       |

Note: Other courses may be eligible upon approval from the Director

### Entrepreneurship/Technology Courses 6

Select two from the following:

|           |                                  |
|-----------|----------------------------------|
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)  |
| MUS 2800  | SOUND REINFORCEMENT (^)          |
| MUS 3170  | EXPLORING MUSIC TECHNOLOGY (^)   |
| MUS 4200  | AUDIO RECORDING TECHNIQUES I (^) |
| MUS 4300  | BUSINESS OF MUSIC (^)            |

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Music Performance, Bachelor of Music - Keyboard Concentration Four Year Plan

### Freshman

| Fall                              | Credits                 |
|-----------------------------------|-------------------------|
| MUS 1000                          | CONVOCATION             |
| MUS 115                           |                         |
| Ensemble                          |                         |
| MUS 1400                          | MUSIC FUNDAMENTALS      |
| MUS 1690                          | KEYBOARD SKILLS I       |
| MUS 167C                          | APPLIED CLASS - VOICE I |
| ENGL 1150                         | ENGLISH COMPOSITION I   |
| Natural/Physical Science with Lab |                         |
| <b>Credits</b>                    | <b>15</b>               |

### Spring

|          |                         |
|----------|-------------------------|
| MUS 1000 | CONVOCATION             |
| MUS 115  |                         |
| Ensemble |                         |
| MUS 1410 | MUSIC CORE CURRICULUM I |
|          |                         |

|                   |   |   |
|-------------------|---|---|
| MUS 2690          | KEYBOARD SKILLS II                        | 1 |
| ENGL 1160         | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| General Education |   | 3 |

**Credits 14**

### Sophomore

#### Fall

|           |                          |   |
|-----------|--------------------------|---|
| MUS 1000  | CONVOCATION              | 0 |
| MUS 215   |                          | 2 |
| Ensemble  |                          | 1 |
| MUS 1420  | MUSIC CORE CURRICULUM II | 4 |
| MUS 2550  | MUSIC HISTORY I          | 3 |
| MUS 2790  | COLLABORATIVE PIANO      | 1 |
| CMST 1110 | PUBLIC SPEAKING FUNDS    | 3 |

**Credits 14**

#### Spring

|                                      |                           |   |
|--------------------------------------|---------------------------|---|
| MUS 1000                             | CONVOCATION               | 0 |
| MUS 215                              |                           | 2 |
| Ensemble                             |                           | 1 |
| MUS 2410                             | MUSIC CORE CURRICULUM III | 4 |
| MUS 2560                             | MUSIC HISTORY II          | 3 |
| MUS 2790                             | COLLABORATIVE PIANO       | 1 |
| Entrepreneurship/Technology Elective |                           | 3 |
| College Algebra or equivalent        |                           | 3 |

**Credits 17**

### Junior

#### Fall

|                                      |                               |   |
|--------------------------------------|-------------------------------|---|
| MUS 1000                             | CONVOCATION                   | 0 |
| MUS 315                              |                               | 2 |
| Ensemble                             |                               | 1 |
| MUS 2420                             | MUSIC CORE CURRICULUM IV      | 4 |
| WRWS 3500                            | CREATIVE WRITING FOR THE ARTS | 3 |
| Entrepreneurship/Technology Elective |                               | 3 |
| History/Theory Elective              |                               | 3 |

**Credits 16**

#### Spring

|                   |                           |   |
|-------------------|---------------------------|---|
| MUS 1000          | CONVOCATION               | 0 |
| MUS 315           |                           | 2 |
| Ensemble          |                           | 1 |
| MUS 3400          | FORM AND ANALYSIS         | 2 |
| MUS 4730          | KEYBOARD LITERATURE       | 3 |
| General Education |                           | 3 |
| General Education |                           | 3 |
| MUS 3190          | JUNIOR/NON DEGREE RECITAL | 1 |

**Credits 15**

### Senior

#### Fall

|  |                            |   |
|--|----------------------------|---|
| MUS 1000                               | CONVOCATION                | 0 |
| MUS 415                                |                            | 2 |
| Ensemble                               |                            | 1 |
| MUS 4450                               | ORCHESTRATION              | 2 |
| MUS 2600                               | FUNDAMENTALS OF CONDUCTING | 2 |
| Cultural Knowledge - General Education |                            | 3 |
| Elective                               |                            | 3 |
| Elective                               |                            | 3 |

**Credits 16**

### Spring

|                                      |                     |   |
|--------------------------------------|---------------------|---|
| MUS 1000                             | CONVOCATION         | 0 |
| MUS 415                              |                     | 2 |
| Ensemble                             |                     | 1 |
| MUS 3660                             | ADVANCED CONDUCTING | 2 |
| MUS 4190                             | RECITAL             | 1 |
| MUS 4600                             | PIANO PEDAGOGY      | 3 |
| General Education - Civic Engagement |                     | 3 |
| Elective                             |                     | 1 |

**Credits 13**

**Total Credits 120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

# Music Performance Percussion Concentration

## Music Performance, Bachelor of Music - Percussion Concentration Requirements

**Code Title Credits**

**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills 15**

### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

|              |   |
|--------------|---|
| or MATH 1130 | QUANTITATIVE LITERACY                               |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                        |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS – 30 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 30**

|          |                                |
|----------|--------------------------------|
| MUS 1410 | MUSIC CORE CURRICULUM I (^)    |
| MUS 1420 | MUSIC CORE CURRICULUM II (^)   |
| MUS 2410 | MUSIC CORE CURRICULUM III (^)  |
| MUS 2420 | MUSIC CORE CURRICULUM IV (^)   |
| MUS 2550 | MUSIC HISTORY I                |
| MUS 2560 | MUSIC HISTORY II               |
| MUS 2600 | FUNDAMENTALS OF CONDUCTING (^) |
| MUS 3400 | FORM AND ANALYSIS (^)          |
| MUS 3660 | ADVANCED CONDUCTING (^)        |
| MUS 4450 | ORCHESTRATION (^)              |

**Concentration Music Performance: Percussion - 46 Hours Required****All of the following: 29**

|          |  |
|----------|--|
| MUS 115  | Applied Music - 2 semesters at 2 credits                             |
| MUS 215  | Applied Music - 2 semesters at 2 credits                             |
| MUS 315  | Applied Music - 2 semesters at 2 credits                             |
| MUS 415  | Applied Music - 2 semesters at 2 credits                             |
| MUS 167B | APPLIED CLASS - PIANO (Fall Semester)                                |
| MUS 167B | APPLIED CLASS - PIANO (Spring Semester)                              |
| MUS 167C | APPLIED CLASS - VOICE I  |
| MUS 1000 | CONVOCATION (^ Required for each semester enrolled in applied music) |
| MUS 1690 | KEYBOARD SKILLS I (^)  |
| MUS 2690 | KEYBOARD SKILLS II (^)   |
| MUS 3190 | JUNIOR/NON DEGREE RECITAL (^)  |
| MUS 4190 | RECITAL (^)  |
| MUS 4620 | INSTRUMENTAL PEDAGOGY  |
| MUS 4750 | INSTRUMENTAL LITERATURE (^)  |

**Ensemble/Chamber Music - 8 courses at 1 credit 8****Music History/Theory Course 3**

Select one of the following:

|          |                                  |
|----------|----------------------------------|
| MUS 4440 | MUSIC SINCE 1945 (^)             |
| MUS 4540 | RENAISSANCE MUSIC LITERATURE (^) |
| MUS 4550 | BAROQUE MUSIC LITERATURE (^)     |

|          |                                |
|----------|--------------------------------|
| MUS 4560 | CLASSICAL MUSIC LITERATURE (^) |
| MUS 4570 | ROMANTIC MUSIC LITERATURE (^)  |
| MUS 4580 | MUSIC FROM 1900 - 1945 (^)     |

Note: Other courses may be eligible upon approval from the Director

**Entrepreneurship/Technology Courses 6**

Select two from the following:

|           |                                  |
|-----------|----------------------------------|
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)  |
| MUS 2800  | SOUND REINFORCEMENT (^)          |
| MUS 3170  | EXPLORING MUSIC TECHNOLOGY (^)   |
| MUS 4200  | AUDIO RECORDING TECHNIQUES I (^) |
| MUS 4300  | BUSINESS OF MUSIC (^)            |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Music Performance, Bachelor of Music - Percussion Concentration Four Year Plan

**Freshman**

| Fall                              |                         | Credits   |
|-----------------------------------|-------------------------|-----------|
| MUS 1000                          | CONVOCATION             | 0         |
| MUS 115                           |                         | 2         |
| Ensemble                          |                         | 1         |
| MUS 1400                          | MUSIC FUNDAMENTALS      | 3         |
| MUS 167B                          | APPLIED CLASS - PIANO   | 1         |
| MUS 167C                          | APPLIED CLASS - VOICE I | 1         |
| ENGL 1150                         | ENGLISH COMPOSITION I   | 3         |
| Natural/Physical Science with Lab |                         | 4         |
| <b>Credits</b>                    |                         | <b>15</b> |

**Spring**

|                                     |   |           |
|-------------------------------------|---|-----------|
| MUS 1000                            | CONVOCATION                               | 0         |
| MUS 115                             |   | 2         |
| Ensemble                            |   | 1         |
| MUS 1410                            | MUSIC CORE CURRICULUM I                   | 4         |
| MUS 167B                            | APPLIED CLASS - PIANO                     | 1         |
| ENGL 1160                           | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Instrumental Pedagogy or Literature |   | 3         |
| <b>Credits</b>                      |   | <b>14</b> |

**Sophomore**

| Fall           |                          |           |
|----------------|--------------------------|-----------|
| MUS 1000       | CONVOCATION              | 0         |
| MUS 215        |                          | 2         |
| Ensemble       |                          | 1         |
| MUS 1420       | MUSIC CORE CURRICULUM II | 4         |
| MUS 2550       | MUSIC HISTORY I          | 3         |
| MUS 1690       | KEYBOARD SKILLS I        | 1         |
| CMST 1110      | PUBLIC SPEAKING FUNDS    | 3         |
| <b>Credits</b> |                          | <b>14</b> |

**Spring**

|          |                           |   |
|----------|---------------------------|---|
| MUS 1000 | CONVOCATION               | 0 |
| MUS 215  |                           | 2 |
| Ensemble |                           | 1 |
| MUS 2410 | MUSIC CORE CURRICULUM III | 4 |
| MUS 2560 | MUSIC HISTORY II          | 3 |
| MUS 2690 | KEYBOARD SKILLS II        | 1 |



|                                      |            |
|--------------------------------------|------------|
| Instrumental Pedagogy or Literature  | 3          |
| Elective                             | 1          |
| <b>Credits</b>                       | <b>15</b>  |
| <b>Junior</b>                        |            |
| <b>Fall</b>                          |            |
| MUS 1000 CONVOCATION                 | 0          |
| MUS 315                              | 2          |
| Ensemble                             | 1          |
| MUS 2420 MUSIC CORE CURRICULM IV     | 4          |
| Entrepreneurship/Technology Elective | 3          |
| Data Literacy                        | 3          |
| History/Theory Elective              | 3          |
| <b>Credits</b>                       | <b>16</b>  |
| <b>Spring</b>                        |            |
| MUS 1000 CONVOCATION                 | 0          |
| MUS 315                              | 2          |
| Ensemble                             | 1          |
| MUS 3190 JUNIOR/NON DEGREE RECITAL   | 1          |
| Form and Analysis                    | 2          |
| Entrepreneurship/Technology Elective | 3          |
| General Education                    | 3          |
| College Algebra or equivalent        | 3          |
| <b>Credits</b>                       | <b>15</b>  |
| <b>Senior</b>                        |            |
| <b>Fall</b>                          |            |
| MUS 1000 CONVOCATION                 | 0          |
| MUS 415                              | 2          |
| Ensemble                             | 1          |
| MUS 4450 ORCHESTRATION               | 2          |
| MUS 2600 FUNDAMENTALS OF CONDUCTING  | 2          |
| General Education                    | 3          |
| General Education                    | 3          |
| General Education                    | 3          |
| <b>Credits</b>                       | <b>16</b>  |
| <b>Spring</b>                        |            |
| MUS 1000 CONVOCATION                 | 0          |
| MUS 415                              | 2          |
| Ensemble                             | 1          |
| General Education                    | 3          |
| MUS 3660 ADVANCED CONDUCTING         | 2          |
| MUS 4190 RECITAL                     | 1          |
| Elective                             | 3          |
| Elective                             | 3          |
| <b>Credits</b>                       | <b>15</b>  |
| <b>Total Credits</b>                 | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Music Performance String Concentration

### Music Performance, Bachelor of Music - String Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS – 30 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirements  |   |           |
| ^Course requires pre-requisite(s)   |   |           |

**All of the following:****30**

|          |                                |
|----------|--------------------------------|
| MUS 1410 | MUSIC CORE CURRICULUM I (^)    |
| MUS 1420 | MUSIC CORE CURRICULUM II (^)   |
| MUS 2410 | MUSIC CORE CURRICULUM III (^)  |
| MUS 2420 | MUSIC CORE CURRICULUM IV (^)   |
| MUS 2550 | MUSIC HISTORY I                |
| MUS 2560 | MUSIC HISTORY II               |
| MUS 2600 | FUNDAMENTALS OF CONDUCTING (^) |
| MUS 3400 | FORM AND ANALYSIS (^)          |
| MUS 3660 | ADVANCED CONDUCTING (^)        |
| MUS 4450 | ORCHESTRATION (^)              |

**Concentration Music Performance: String - 46 Hours Required****All of the following:****29**

|          |  |
|----------|--|
| MUS 115  | Applied Music - 2 semesters at 2 credits                             |
| MUS 215  | Applied Music - 2 semesters at 2 credits                             |
| MUS 315  | Applied Music - 2 semesters at 2 credits                             |
| MUS 415  | Applied Music - 2 semesters at 2 credits                             |
| MUS 167B | APPLIED CLASS - PIANO (Fall Semester)                                |
| MUS 167B | APPLIED CLASS - PIANO (Spring Semester)                              |
| MUS 167C | APPLIED CLASS - VOICE I  |
| MUS 1000 | CONVOCATION (^ Required for each semester enrolled in applied music) |
| MUS 1690 | KEYBOARD SKILLS I (^)  |
| MUS 2690 | KEYBOARD SKILLS II (^)   |
| MUS 3190 | JUNIOR/NON DEGREE RECITAL (^)  |
| MUS 4190 | RECITAL (^)  |
| MUS 4620 | INSTRUMENTAL PEDAGOGY (^)  |
| MUS 4750 | INSTRUMENTAL LITERATURE (^)  |

**Ensemble/Chamber Music - 8 courses at 1 credit****8****Music History/Theory Course****3**

Select one of the following:

|          |                                  |
|----------|----------------------------------|
| MUS 4440 | MUSIC SINCE 1945 (^)             |
| MUS 4540 | RENAISSANCE MUSIC LITERATURE (^) |
| MUS 4550 | BAROQUE MUSIC LITERATURE (^)     |
| MUS 4560 | CLASSICAL MUSIC LITERATURE (^)   |
| MUS 4570 | ROMANTIC MUSIC LITERATURE (^)    |
| MUS 4580 | MUSIC FROM 1900 - 1945 (^)       |

Note: Other courses may be eligible upon approval from the Director

**Entrepreneurship/Technology Courses****6**

Select two from the following:

|           |                                  |
|-----------|----------------------------------|
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)  |
| MUS 2800  | SOUND REINFORCEMENT (^)          |
| MUS 3170  | EXPLORING MUSIC TECHNOLOGY (^)   |
| MUS 4200  | AUDIO RECORDING TECHNIQUES I (^) |
| MUS 4300  | BUSINESS OF MUSIC (^)            |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Music Performance, Bachelor of Music - String Concentration Four Year Plan

**Freshman****Fall**

|                                   |                         | <b>Credits</b> |
|-----------------------------------|-------------------------|----------------|
| MUS 1000                          | CONVOCATION             | 0              |
| MUS 115                           |                         | 2              |
| Ensemble                          |                         | 1              |
| MUS 1400                          | MUSIC FUNDAMENTALS      | 3              |
| MUS 167B                          | APPLIED CLASS - PIANO   | 1              |
| MUS 167C                          | APPLIED CLASS - VOICE I | 1              |
| ENGL 1150                         | ENGLISH COMPOSITION I   | 3              |
| Natural/Physical Science with Lab |                         | 4              |
| <b>Credits</b>                    |                         | <b>15</b>      |

**Spring**

|                                     |   |           |
|-------------------------------------|---|-----------|
| MUS 1000                            | CONVOCATION                               | 0         |
| MUS 115                             |   | 2         |
| Ensemble                            |   | 1         |
| MUS 1410                            | MUSIC CORE CURRICULUM I                   | 4         |
| MUS 167B                            | APPLIED CLASS - PIANO                     | 1         |
| ENGL 1160                           | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Instrumental Pedagogy or Literature |   | 3         |
| <b>Credits</b>                      |   | <b>14</b> |

**Sophomore****Fall**

|                |                          |           |
|----------------|--------------------------|-----------|
| MUS 1000       | CONVOCATION              | 0         |
| MUS 215        |                          | 2         |
| Ensemble       |                          | 1         |
| MUS 1420       | MUSIC CORE CURRICULUM II | 4         |
| MUS 2550       | MUSIC HISTORY I          | 3         |
| MUS 1690       | KEYBOARD SKILLS I        | 1         |
| CMST 1110      | PUBLIC SPEAKING FUNDS    | 3         |
| <b>Credits</b> |                          | <b>14</b> |

**Spring**

|                                     |                           |           |
|-------------------------------------|---------------------------|-----------|
| MUS 1000                            | CONVOCATION               | 0         |
| MUS 215                             |                           | 2         |
| Ensemble                            |                           | 1         |
| MUS 2410                            | MUSIC CORE CURRICULUM III | 4         |
| MUS 2560                            | MUSIC HISTORY II          | 3         |
| MUS 2690                            | KEYBOARD SKILLS II        | 1         |
| Instrumental Pedagogy or Literature |                           | 3         |
| Elective                            |                           | 2         |
| <b>Credits</b>                      |                           | <b>16</b> |

**Junior****Fall**

|                                      |                               |           |
|--------------------------------------|-------------------------------|-----------|
| MUS 1000                             | CONVOCATION                   | 0         |
| MUS 315                              |                               | 2         |
| Ensemble                             |                               | 1         |
| MUS 2420                             | MUSIC CORE CURRICULUM IV      | 4         |
| WRWS 3500                            | CREATIVE WRITING FOR THE ARTS | 3         |
| Entrepreneurship/Technology Elective |                               | 3         |
| History/Theory Elective              |                               | 3         |
| Elective                             |                               | 1         |
| <b>Credits</b>                       |                               | <b>17</b> |

**Spring**

|                                      |                           |           |
|--------------------------------------|---------------------------|-----------|
| MUS 1000                             | CONVOCATION               | 0         |
| MUS 315                              |                           | 2         |
| Ensemble                             |                           | 1         |
| MUS 3190                             | JUNIOR/NON DEGREE RECITAL | 1         |
| Entrepreneurship/Technology Elective |                           | 3         |
| History/Theory Elective              |                           | 3         |
| General Education                    |                           | 3         |
| College Algebra or equivalent        |                           | 3         |
| <b>Credits</b>                       |                           | <b>16</b> |

**Senior****Fall**

|  |                            |           |
|--|----------------------------|-----------|
| MUS 1000                               | CONVOCATION                | 0         |
| MUS 415                                |                            | 2         |
| Ensemble                               |                            | 1         |
| MUS 4450                               | ORCHESTRATION              | 2         |
| MUS 2600                               | FUNDAMENTALS OF CONDUCTING | 2         |
| General Education                      |                            | 3         |
| General Education                      |                            | 3         |
| General Education - Cultural knowledge |                            | 3         |
| <b>Credits</b>                         |                            | <b>16</b> |

**Spring**

|                      |                     |            |
|----------------------|---------------------|------------|
| MUS 1000             | CONVOCATION         | 0          |
| MUS 415              |                     | 2          |
| Ensemble             |                     | 1          |
| MUS 3660             | ADVANCED CONDUCTING | 2          |
| MUS 4190             | RECITAL             | 1          |
| Elective             |                     | 3          |
| Elective             |                     | 3          |
| <b>Credits</b>       |                     | <b>12</b>  |
| <b>Total Credits</b> |                     | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

# Music Performance Voice Concentration

## Music Performance, Bachelor of Music - Voice Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS – 30 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>30</b> |
| MUS 1410  | MUSIC CORE CURRICULUM I (^)                             |           |
| MUS 1420  | MUSIC CORE CURRICULUM II (^)                            |           |
| MUS 2410  | MUSIC CORE CURRICULUM III (^)                           |           |
| MUS 2420  | MUSIC CORE CURRICULUM IV (^)                            |           |
| MUS 2550  | MUSIC HISTORY I   |           |
| MUS 2560  | MUSIC HISTORY II  |           |
| MUS 2600  | FUNDAMENTALS OF CONDUCTING (^)                          |           |
| MUS 3400  | FORM AND ANALYSIS (^)                                   |           |
| MUS 3660  | ADVANCED CONDUCTING (^)                                 |           |
| MUS 4450  | ORCHESTRATION (^)                                       |           |
| <b>Concentration Music Performance: Voice- 47 Hours Required</b>  |   |           |

**All of the following: 30**

|          |  |  |
|----------|--|--|
| MUS 115  | Applied Music - 2 semesters at 2 credits                             |  |
| MUS 215  | Applied Music - 2 semesters at 2 credits                             |  |
| MUS 315  | Applied Music - 2 semesters at 2 credits                             |  |
| MUS 415  | Applied Music - 2 semesters at 2 credits                             |  |
| MUS 167B | APPLIED CLASS - PIANO (Fall Semester)                                |  |
| MUS 167B | APPLIED CLASS - PIANO (Spring Semester)                              |  |
| MUS 1640 | DICTION FOR SINGERS I (^)  |  |
| MUS 1660 | DICTION FOR SINGERS II (^)   |  |
| MUS 1000 | CONVOCATION (^ Required for each semester enrolled in applied music) |  |
| MUS 1690 | KEYBOARD SKILLS I (^)  |  |
| MUS 2690 | KEYBOARD SKILLS II (^)   |  |
| MUS 3190 | JUNIOR/NON DEGREE RECITAL (^)  |  |
| MUS 4190 | RECITAL (^)  |  |
| MUS 4610 | VOICE PEDAGOGY (^)   |  |
| MUS 4740 | VOICE LITERATURE (^)   |  |

**Ensembles/Chamber Music - 8 courses at 1 credit 8****Music History/Theory Course 3**

Select one of the following:

|          |                                  |  |
|----------|----------------------------------|--|
| MUS 4440 | MUSIC SINCE 1945 (^)             |  |
| MUS 4540 | RENAISSANCE MUSIC LITERATURE (^) |  |
| MUS 4550 | BAROQUE MUSIC LITERATURE (^)     |  |
| MUS 4560 | CLASSICAL MUSIC LITERATURE (^)   |  |
| MUS 4570 | ROMANTIC MUSIC LITERATURE (^)    |  |
| MUS 4580 | MUSIC FROM 1900 - 1945 (^)       |  |

Note: Other courses may be eligible upon approval from the Director

**Entrepreneurship/Technology Courses 6**

Select two from the following:

|           |                                  |  |
|-----------|----------------------------------|--|
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)  |  |
| MUS 2800  | SOUND REINFORCEMENT (^)          |  |
| MUS 3170  | EXPLORING MUSIC TECHNOLOGY (^)   |  |
| MUS 4200  | AUDIO RECORDING TECHNIQUES I (^) |  |
| MUS 4300  | BUSINESS OF MUSIC (^)            |  |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Music Performance, Bachelor of Music - Voice Concentration Four-Year Plan

**Freshman**

| <b>Fall</b>                       |                       | <b>Credits</b> |
|-----------------------------------|-----------------------|----------------|
| MUS 1000                          | CONVOCATION           | 0              |
| MUS 115                           |                       | 2              |
| Ensemble                          |                       | 1              |
| MUS 1400                          | MUSIC FUNDAMENTALS    | 3              |
| MUS 167B                          | APPLIED CLASS - PIANO | 1              |
| MUS 1640                          | DICTION FOR SINGERS I | 1              |
| ENGL 1150                         | ENGLISH COMPOSITION I | 3              |
| Natural/Physical Science with Lab |                       | 4              |
| Elective                          |                       | 3              |
| <b>Credits</b>                    |                       | <b>18</b>      |

**Spring**

|          |             |   |
|----------|-------------|---|
| MUS 1000 | CONVOCATION | 0 |
|----------|-------------|---|

|                              |   |   |
|------------------------------|---|---|
| MUS 115                      |   | 2 |
| Ensemble                     |   | 1 |
| MUS 1410                     | MUSIC CORE CURRICULUM I                   | 4 |
| MUS 167B                     | APPLIED CLASS - PIANO                     | 1 |
| ENGL 1160                    | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| MUS 1660                     | DICTION FOR SINGERS II                    | 1 |
| Vocal Pedagogy or Literature |   | 3 |

**Credits 15****Sophomore****Fall**

|           |                          |   |
|-----------|--------------------------|---|
| MUS 1000  | CONVOCATION              | 0 |
| MUS 215   |                          | 2 |
| Ensemble  |                          | 1 |
| MUS 1420  | MUSIC CORE CURRICULUM II | 4 |
| MUS 2550  | MUSIC HISTORY I          | 3 |
| MUS 1690  | KEYBOARD SKILLS I        | 1 |
| CMST 1110 | PUBLIC SPEAKING FUNDS    | 3 |

**Credits 14****Spring**

|                                     |                           |   |
|-------------------------------------|---------------------------|---|
| MUS 1000                            | CONVOCATION               | 0 |
| MUS 215                             |                           | 2 |
| Ensemble                            |                           | 1 |
| MUS 2410                            | MUSIC CORE CURRICULUM III | 4 |
| MUS 2560                            | MUSIC HISTORY II          | 3 |
| MUS 2690                            | KEYBOARD SKILLS II        | 1 |
| Instrumental Pedagogy or Literature |                           | 3 |

**Credits 14****Junior****Fall**

|                                      |                            |   |
|--------------------------------------|----------------------------|---|
| MUS 1000                             | CONVOCATION                | 0 |
| MUS 315                              |                            | 2 |
| Ensemble                             |                            | 1 |
| MUS 2420                             | MUSIC CORE CURRICULUM IV   | 4 |
| MUS 2600                             | FUNDAMENTALS OF CONDUCTING | 2 |
| Entrepreneurship/Technology Elective |                            | 3 |
| History/Theory Elective              |                            | 3 |

**Credits 15****Spring**

|                   |                           |   |
|-------------------|---------------------------|---|
| MUS 1000          | CONVOCATION               | 0 |
| MUS 315           |                           | 2 |
| Ensemble          |                           | 1 |
| MUS 3190          | JUNIOR/NON DEGREE RECITAL | 1 |
| Form and Analysis |                           | 2 |
| General Education |                           | 3 |
| Data Literacy     |                           | 3 |

**Credits 12****Senior****Fall**

|                   |                     |   |
|-------------------|---------------------|---|
| MUS 1000          | CONVOCATION         | 0 |
| MUS 415           |                     | 2 |
| Ensemble          |                     | 1 |
| MUS 4450          | ORCHESTRATION       | 2 |
| MUS 3660          | ADVANCED CONDUCTING | 2 |
| General Education |                     | 3 |
| General Education |                     | 3 |

|  |                     |            |
|--|---------------------|------------|
| Cultural Knowledge - General Education |                     | 3          |
| <b>Credits</b>                         |                     | <b>16</b>  |
| <b>Spring</b>                          |                     |            |
| MUS 1000                               | CONVOCATION         | 0          |
| MUS 415                                |                     | 2          |
| Ensemble                               |                     | 1          |
| MUS 4190                               | RECITAL             | 1          |
| Entrepreneurship/Technology Elective   |                     | 3          |
| Civic Engagement - General Education   |                     | 3          |
| MUS 3660                               | ADVANCED CONDUCTING | 2          |
| Electives                              |                     | 4          |
| <b>Credits</b>                         |                     | <b>16</b>  |
| <b>Total Credits</b>                   |                     | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

# Music Performance Woodwind Concentration

## Music Performance, Bachelor of Music - Woodwind Concentration Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

|   |                                 |
|---|---------------------------------|
| Select one from the following:  |                                 |
| STAT 1100   | DATA LITERACY AND VISUALIZATION |
| STAT 1530   | ELEMENTARY STATISTICS           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |                                 |

**Breadth of Knowledge**
13

|   |  |
|---|--|
| Social Science – 3 hrs.                                   |  |
| Humanities – 3 hrs.                                       |  |
| Natural & Physical Science (must complete a lab) – 4 hrs. |  |
| Arts – 3 hrs.   |  |

**Individual and Social Responsibility**
6

|   |  |
|---|--|
| Cultural Knowledge – 3 hrs.             |  |
| Civic Knowledge and Engagement – 3 hrs. |  |

**MAJOR REQUIREMENTS – 30 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following:**
30

|          |                                |
|----------|--------------------------------|
| MUS 1410 | MUSIC CORE CURRICULUM I (^)    |
| MUS 1420 | MUSIC CORE CURRICULUM II (^)   |
| MUS 2410 | MUSIC CORE CURRICULUM III (^)  |
| MUS 2420 | MUSIC CORE CURRICULUM IV (^)   |
| MUS 2550 | MUSIC HISTORY I                |
| MUS 2560 | MUSIC HISTORY II               |
| MUS 2600 | FUNDAMENTALS OF CONDUCTING (^) |
| MUS 3400 | FORM AND ANALYSIS (^)          |
| MUS 3660 | ADVANCED CONDUCTING (^)        |
| MUS 4450 | ORCHESTRATION (^)              |

**Concentration Music Performance: Woodwind - 46 Hours Required**

**All of the following:**
29

|          |  |
|----------|--|
| MUS 115  | Applied Music - 2 semesters at 2 credits                             |
| MUS 215  | Applied Music - 2 semesters at 2 credits                             |
| MUS 315  | Applied Music - 2 semesters at 2 credits                             |
| MUS 415  | Applied Music - 2 semesters at 2 credits                             |
| MUS 167B | APPLIED CLASS - PIANO (Fall Semester)                                |
| MUS 167B | APPLIED CLASS - PIANO (Spring Semester)                              |
| MUS 167C | APPLIED CLASS - VOICE I  |
| MUS 1000 | CONVOCATION (^ Required for each semester enrolled in applied music) |
| MUS 1690 | KEYBOARD SKILLS I (^)  |
| MUS 2690 | KEYBOARD SKILLS II (^)   |
| MUS 3190 | JUNIOR/NON DEGREE RECITAL (^)  |
| MUS 4190 | RECITAL (^)  |
| MUS 4620 | INSTRUMENTAL PEDAGOGY  |
| MUS 4750 | INSTRUMENTAL LITERATURE (^)  |

**Ensemble/Chamber Music - 8 courses at 1 credit**
8

**Music History/Theory Course**
3

Select one of the following:

|          |                                  |
|----------|----------------------------------|
| MUS 4440 | MUSIC SINCE 1945 (^)             |
| MUS 4540 | RENAISSANCE MUSIC LITERATURE (^) |
| MUS 4550 | BAROQUE MUSIC LITERATURE (^)     |
| MUS 4560 | CLASSICAL MUSIC LITERATURE (^)   |
| MUS 4570 | ROMANTIC MUSIC LITERATURE (^)    |
| MUS 4580 | MUSIC FROM 1900 - 1945 (^)       |

Note: Other courses may be eligible upon approval from the Director

#### Entrepreneurship/Technology Courses 6

Select two from the following:

|           |                                  |
|-----------|----------------------------------|
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)  |
| MUS 2800  | SOUND REINFORCEMENT (^)          |
| MUS 3170  | EXPLORING MUSIC TECHNOLOGY (^)   |
| MUS 4200  | AUDIO RECORDING TECHNIQUES I (^) |
| MUS 4300  | BUSINESS OF MUSIC (^)            |

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Music Performance, Bachelor of Music - Woodwind Concentration Four Year Plan

### Freshman

| Fall                              |                         | Credits |
|-----------------------------------|-------------------------|---------|
| MUS 1000                          | CONVOCATION             | 0       |
| MUS 115                           |                         | 2       |
| Ensemble                          |                         | 1       |
| MUS 1400                          | MUSIC FUNDAMENTALS      | 3       |
| MUS 167B                          | APPLIED CLASS - PIANO   | 1       |
| MUS 167C                          | APPLIED CLASS - VOICE I | 1       |
| ENGL 1150                         | ENGLISH COMPOSITION I   | 3       |
| Natural/Physical Science with Lab |                         | 4       |

**Credits 15**

### Spring

|                                     |   |   |
|-------------------------------------|---|---|
| MUS 1000                            | CONVOCATION                               | 0 |
| MUS 115                             |   | 2 |
| Ensemble                            |   | 1 |
| MUS 1410                            | MUSIC CORE CURRICULUM I                   | 4 |
| MUS 167B                            | APPLIED CLASS - PIANO                     | 1 |
| ENGL 1160                           | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| Instrumental Pedagogy or Literature |   | 3 |
| Elective                            |   | 1 |

**Credits 15**

### Sophomore

| Fall      |                          | Credits |
|-----------|--------------------------|---------|
| MUS 1000  | CONVOCATION              | 0       |
| MUS 215   |                          | 2       |
| Ensemble  |                          | 1       |
| MUS 1420  | MUSIC CORE CURRICULUM II | 4       |
| MUS 2550  | MUSIC HISTORY I          | 3       |
| MUS 1690  | KEYBOARD SKILLS I        | 1       |
| CMST 1110 | PUBLIC SPEAKING FUNDS    | 3       |

**Credits 14**

### Spring

|          |             |   |
|----------|-------------|---|
| MUS 1000 | CONVOCATION | 0 |
| MUS 215  |             | 2 |

|                                     |                           |   |
|-------------------------------------|---------------------------|---|
| Ensemble                            |                           | 1 |
| MUS 2410                            | MUSIC CORE CURRICULUM III | 4 |
| MUS 2560                            | MUSIC HISTORY II          | 3 |
| MUS 2690                            | KEYBOARD SKILLS II        | 1 |
| Instrumental Pedagogy or Literature |                           | 3 |

**Credits 14**

### Junior

#### Fall

|   |                          |   |
|---|--------------------------|---|
| MUS 1000                                  | CONVOCATION              | 0 |
| MUS 315                                   |                          | 2 |
| Ensemble                                  |                          | 1 |
| MUS 2420                                  | MUSIC CORE CURRICULUM IV | 4 |
| Entrepreneurship/Technology Elective      |                          | 3 |
| Quantitative Literacy - General Education |                          | 3 |
| History/Theory Elective                   |                          | 3 |

**Credits 16**

#### Spring

|                                      |                           |   |
|--------------------------------------|---------------------------|---|
| MUS 1000                             | CONVOCATION               | 0 |
| MUS 315                              |                           | 2 |
| Ensemble                             |                           | 1 |
| MUS 3190                             | JUNIOR/NON DEGREE RECITAL | 1 |
| Form and Analysis                    |                           | 2 |
| Entrepreneurship/Technology Elective |                           | 3 |
| General Education - Humanities       |                           | 3 |
| College Algebra or equivalent        |                           | 3 |

**Credits 15**

### Senior

#### Fall

|  |                            |   |
|--|----------------------------|---|
| MUS 1000                               | CONVOCATION                | 0 |
| MUS 415                                |                            | 2 |
| Ensemble                               |                            | 1 |
| MUS 4450                               | ORCHESTRATION              | 2 |
| MUS 2600                               | FUNDAMENTALS OF CONDUCTING | 2 |
| General Education - Fine Arts          |                            | 3 |
| General Education - Social Science     |                            | 3 |
| General Education - Cultural Knowledge |                            | 3 |

**Credits 16**

#### Spring

|                                      |                     |   |
|--------------------------------------|---------------------|---|
| MUS 1000                             | CONVOCATION         | 0 |
| MUS 415                              |                     | 2 |
| Ensemble                             |                     | 1 |
| MUS 3660                             | ADVANCED CONDUCTING | 2 |
| MUS 4190                             | RECITAL             | 1 |
| General Education - Civic Engagement |                     | 3 |
| Elective                             |                     | 3 |
| Elective                             |                     | 3 |

**Credits 15**

**Total Credits 120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change



**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

**\*\*Transfer credit or placement exam scores may change suggested plan of study**

**Music Education, Bachelor of Music, K-12 Certification**  
**Music Education, Bachelor of Music Requirements**

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of “C-“required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS – 86 Hours Required</b>   |   |           |

**\*\*Course will satisfy UNO's General Education requirement**

|  |  |           |
|--|--|-----------|
| ^Course requires pre-requisite(s)                                    |  |           |
| <b>All of the following:</b>   |  | <b>42</b> |
| MUS 1000   | CONVOCATION (^ 7 semesters)                                    |           |
| MUS 1410   | MUSIC CORE CURRICULM I (^)                                     |           |
| MUS 1420   | MUSIC CORE CURRICULM II (^)                                    |           |
| MUS 2410   | MUSIC CORE CURRICULM III (^)                                   |           |
| MUS 2550   | MUSIC HISTORY I  |           |
| MUS 2560   | MUSIC HISTORY II   |           |
| MUS 2600   | FUNDAMENTALS OF CONDUCTING (^)                                 |           |
| MUS 3660   | ADVANCED CONDUCTING (^)  |           |
| MUS 2690   | KEYBOARD SKILLS II (^)   |           |
| MUS 1400   | MUSIC FUNDAMENTALS   |           |
| MUS 4190   | RECITAL (^)  |           |
| MUS 115  | Applied Music - 2 semesters at 2 credits                       |           |
| MUS 215  | Applied Music - 2 semesters at 2 credits                       |           |
| MUS 315  | Applied Music - 2 semesters at 2 credits                       |           |
| MUS 415  | Applied Music - 1 semester at 1 credit                         |           |
| OTHER ENSEMBLES - must perform in major area - 4 courses at 1 credit |  |           |
| <b>Professional Education Requirements</b>                           |  | <b>44</b> |
| MUS 1600   | INTRODUCTION TO ARTS EDUCATION                                 |           |
| MUS 3600   | MUSIC EDUCATION CORE I - ELEMENTARY (^)                        |           |
| MUS 3604   | MUSIC EDUCATION BEGINNING PRACTICUM (^)                        |           |
| MUS 3610   | MUSIC EDUCATION CORE II - MIDDLE SCHOOL/JUNIOR HIGH SCHOOL (^) |           |
| MUS 3614   | MUSIC EDUCATION INTERMEDIATE PRACTICUM (^)                     |           |
| MUS 3630   | MUSIC EDUCATION CORE III - HIGH SCHOOL METHODS (^)             |           |
| MUS 3634   | MUSIC EDUCATION ADVANCED PRACTICUM (^)                         |           |
| MUS 3640   | MUSIC EDUCATION FINAL PRACTICUM (^)                            |           |
| TED 2100   | EDUCATIONAL FOUNDATIONS (^)                                    |           |
| TED 2200   | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                |           |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                    |           |
| TED 4640   | K-12 CLINICAL PRACTICE AND SEMINAR ELEMENTARY/SECONDARY (^)    |           |
| <b>ELECTIVES</b>   |  | <b>0</b>  |
| Elective hours as required to reach a total of 120 hours             |  |           |

**Music Education, Bachelor of Music Four Year Plan**

|                        |   |                |
|------------------------|---|----------------|
| <b>Freshman</b>        |   |                |
| <b>Fall</b>            |   | <b>Credits</b> |
| MUS 1000               | CONVOCATION   | 0              |
| MUS 115                |   | 2              |
| Ensemble               |   | 1              |
| MUS 1600               | INTRODUCTION TO ARTS EDUCATION  | 1              |
| MATH 1120 or MATH 1220 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING AND COLLEGE ALGEBRA | 3              |
| CMST 1110              | PUBLIC SPEAKING FUNDS   | 3              |
| ENGL 1150              | ENGLISH COMPOSITION I   | 3              |

|                          |  |           |
|--------------------------|--|-----------|
| MUS 1400                 | MUSIC FUNDAMENTALS   | 3         |
| <b>Credits</b>           |  | <b>16</b> |
| <b>Spring</b>            |  |           |
| MUS 1000                 | CONVOCATION  | 0         |
| MUS 115                  |  | 2         |
| Ensemble                 |  | 1         |
| MUS 1410                 | MUSIC CORE CURRICULUM I                                    | 4         |
| TED 2100                 | EDUCATIONAL FOUNDATIONS                                    | 3         |
| ENGL 1160                | COLLEGE RESEARCH AND INFORMATION LITERACY                  | 3         |
| DATA LITERACY            |  | 3         |
| <b>Credits</b>           |  | <b>16</b> |
| <b>Sophomore</b>         |  |           |
| <b>Fall</b>              |  |           |
| MUS 1000                 | CONVOCATION  | 0         |
| MUS 215                  |  | 2         |
| Ensemble                 |  | 1         |
| MUS 1420                 | MUSIC CORE CURRICULUM II                                   | 4         |
| MUS 2550                 | MUSIC HISTORY I  | 3         |
| MUS 2600                 | FUNDAMENTALS OF CONDUCTING                                 | 2         |
| TED 2200                 | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS                   | 3         |
| MUS 1690                 | KEYBOARD SKILLS I  | 1         |
| <b>Credits</b>           |  | <b>16</b> |
| <b>Spring</b>            |  |           |
| MUS 1000                 | CONVOCATION  | 0         |
| MUS 215                  |  | 2         |
| ENSEMBLE                 |  | 1         |
| MUS 2560                 | MUSIC HISTORY II   | 3         |
| MUS 2410                 | MUSIC CORE CURRICULUM III                                  | 4         |
| MUS 2690                 | KEYBOARD SKILLS II   | 1         |
| MUS 3604                 | MUSIC EDUCATION BEGINNING PRACTICUM                        | 1         |
| MUS 3600                 | MUSIC EDUCATION CORE I - ELEMENTARY                        | 5         |
| <b>Credits</b>           |  | <b>17</b> |
| <b>Junior</b>            |  |           |
| <b>Fall</b>              |  |           |
| MUS 1000                 | CONVOCATION  | 0         |
| MUS 315                  |  | 2         |
| MUS 3610                 | MUSIC EDUCATION CORE II - MIDDLE SCHOOL/JUNIOR HIGH SCHOOL | 5         |
| MUS 3614                 | MUSIC EDUCATION INTERMEDIATE PRACTICUM                     | 1         |
| General Education course |  | 3         |
| SPED 3800                | DIFFERENTIATION AND INCLUSIVE PRACTICES                    | 3         |
| <b>Credits</b>           |  | <b>14</b> |
| <b>Spring</b>            |  |           |
| MUS 1000                 | CONVOCATION  | 0         |
| MUS 315                  |  | 2         |
| MUS 3630                 | MUSIC EDUCATION CORE III - HIGH SCHOOL METHODS             | 5         |
| MUS 3634                 | MUSIC EDUCATION ADVANCED PRACTICUM                         | 1         |
| MUS 3660                 | ADVANCED CONDUCTING  | 2         |
| GENERAL EDUCATION        |  | 3         |

|                               |   |            |
|-------------------------------|---|------------|
| GENERAL EDUCATION             |   | 3          |
| <b>Credits</b>                |   | <b>16</b>  |
| <b>Senior</b>                 |   |            |
| <b>Fall</b>                   |   |            |
| MUS 1000                      | CONVOCATION   | 0          |
| MUS 415                       |   | 1          |
| MUS 3640                      | MUSIC EDUCATION FINAL PRACTICUM                         | 2          |
| MUS 4190                      | RECITAL   | 1          |
| Natural and Physical Science  |   | 4          |
| GENERAL EDUCATION             |   | 3          |
| GENERAL EDUCATION OR ELECTIVE |   | 2          |
| <b>Credits</b>                |   | <b>13</b>  |
| <b>Spring</b>                 |   |            |
| TED 4640                      | K-12 CLINICAL PRACTICE AND SEMINAR ELEMENTARY/SECONDARY | 12         |
| <b>Credits</b>                |   | <b>12</b>  |
| <b>Total Credits</b>          |   | <b>120</b> |

## School of the Arts

### School of the Arts

The School of the Arts is one of three schools in the College of Communication, Fine Arts and Media. It comprises Art & Art History, Theatre, and Writer's Workshop. Formed in 2015 the School is located in the award-winning Weber Fine Arts Building which houses along with traditional lecture and seminar rooms and computer labs, dedicated studio spaces for art-making, acting, directing, and theatrical design. Weber's Black Box Theater and Art Gallery and unit programming make Weber and the School campus's theatrical and artistic hub.

The units in the School of the Arts offer several degree programs. Art & Art History is a fully accredited member of the National Association of Schools of Art and Design (NASAD). In the Studio Arts area, students can earn a Bachelor of Arts or a Bachelor of Fine Arts in 2D, 3D, Media Arts, Illustration, or Graphic Design. Studio Art students can also earn a K-12 certification. Art History majors can concentrate in Academic Art History or Arts Management. Theatre offers a Bachelor of Arts degree with concentrations in Acting/Directing, Musical Theatre, Stage Management, Design, and Technology. Students in Writer's Workshop (Creative Writing) can earn a BFA or an MFA in Creative Writing. Writer's Workshop offers concentrations in Poetry, Fiction, Creative Nonfiction, and Screenwriting.

For students who are not majors in the School of the Arts, there are many opportunities to minor in one of its subject areas. The School has minors in Studio Art, Art History, Theatre, Musical Theatre, Arts Entrepreneurship, and Creative Writing.

The specific requirements for the School of the Arts degrees are listed under each unit: Art & Art History, Theatre and Writer's Workshop. In addition to the major requirements students must complete UNO's General Education program.

## Art and Art History

Art & Art History educates artists, scholars and teachers by fostering creative expression, visual literacy, and critical thinking through practice and research. By developing mastery of various disciplines in art, students are prepared to become leaders in their chosen careers and make positive contributions to the world. Art & Art History is fully accredited by the National Association of Schools of Art and Design (NASAD).

Contact Information

For more information, contact Art & Art History at 402.554.2420.

Website (<http://www.unomaha.edu/college-of-communication-fine-arts-and-media/art-and-art-history/>)

Admissions

Any student enrolled in the College of Communication, Fine Arts and Media may declare a major in Art & Art History. Students working on their BASA must pass a portfolio review (ART 2000), which is normally conducted after a student has completed the Studio Core I courses, or the equivalents.

Degrees Offered

- Art History, Bachelor of Arts (p. 472)
- Studio Art, Bachelor of Arts (p. 477)
- Studio Art, Bachelor of Fine Arts (p. 487)

Minors Offered

- Art History Minor (p. 477)
- Studio Art Minor (p. 490)
- Arts Entrepreneurship Minor (p. 502)

Art History

Art History is an interdisciplinary field that studies the most significant artists and artworks in human history and emphasizes the role of visual culture from the past to the present. Students majoring in Art History at UNO can prepare for advanced graduate study in art history as well as careers in museum studies or art administration.

- Museum curator
- Gallerist
- Exhibit Installation technician
- Art conservationist/restorer
- Art law/anti-forgery specialist
- Interior designer
- Art/estate appraiser

Studio Art

The programs in studio art provide a comprehensive art education that prepares students with the technical skills, historical context, and theoretical knowledge to create meaningful artistic contributions. Visual imagery created through painting, drawing, printmaking, book arts, ceramics, sculpture, graphic design, media arts, or game design are emphasized in this program. Additionally, students can also pursue teacher certification to apply their artistic skills in the K-12 classroom.

2D

- Artist
- Fashion illustrator
- Comic illustrator
- Storyboarder
- Medical illustrator
- Art therapist
- Concept artist
- Art educator

3D

- Sculptor
- Art educator

- Special effects artist
- 3D animator

Graphic Design

- Corporate graphic designer
- Web designer
- Marketing/advertising artist
- UX/UI designer

Illustration

- Graphic Novelist
- Preproduction for Animation (storyboard artist, concept artist, production management)
- Editorial Illustrator
- Children's Illustrator
- Webcomic artist
- Comic colorist, inker or penciler
- Creative business owner

Media Arts (Intermedia and Digital Art/ Game Design)

- Concept/character artist
- Photographer
- Animator
- Digital Artist
- Game art director
- Video Artist

Art Education

- Elementary art educator
- Secondary art educator
- Tutor

Art History, Bachelor of Arts

Art History studies the artistic traditions of different cultures and time periods, artists and their creative processes, and approaches to analyzing and interpreting art. The curriculum consists of survey and period courses and topical courses such as Technical Art History, Gods, Gladiators, & Gore: Antiquity on the Big Screen, and LatinX Art. There are two concentrations in the Art History major. The Academic Art History concentration prepares students for graduate school and has enhanced language and history requirements. For gallery, museum, and arts non-profit career preparation, the Arts Management concentration includes leadership, fundraising, public relations, and collections management courses.

Art History, Bachelor of Arts Requirements

| Code   | Title                                     | Credits |
|--|---|---------|
| GENERAL EDUCATION REQUIREMENTS - 34 Hours Required |   |         |
| Minimum of "C-"required                            |   |         |
| Fundamental Skills                                 |   | 15      |
| Writing – 6 hrs.                                   |   |         |
| ENGL 1150  | ENGLISH COMPOSITION I                     |         |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY |         |
| Oral Communication – 3 hrs.                        |   |         |
| CMST 1110  | PUBLIC SPEAKING FUNDS                     |         |

|   |   |              |
|---|---|--------------|
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |              |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |              |
| STAT 1530   | ELEMENTARY STATISTICS                                   |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| <b>MAJOR REQUIREMENTS</b>   |   |              |
| Minimum of “C” required   |   |              |
| <b>Select a Concentration:</b>  |   | <b>54-56</b> |
| Academic Art History  |   |              |
| Arts Management   |   |              |
| <b>ELECTIVES</b>  |   |              |
| Elective hours as required to reach a total of 120 hours  |   |              |

## Art History, Bachelor of Arts Concentrations

- Academic Art History (p. 475)
- Arts Management (p. 476)

## Art History, Bachelor of Arts - Academic Art History Four Year Plan

|   |                                  |                |
|---|----------------------------------|----------------|
| <b>Freshman</b>   |                                  |                |
| <b>Fall</b>   |                                  | <b>Credits</b> |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I  | 3              |
| ART 1100  | FOUNDATION: DRAWING              | 3              |
| or ART 1110   | or FOUNDATION: 3D DESIGN         |                |
| or ART 1210   | or FOUNDATION: 2-D DESIGN        |                |
| General Education or Elective   |                                  | 3              |
| General Education or Elective   |                                  | 3              |
| General Education or Elective   |                                  | 3              |
| Make an initial academic advising appointment on MavTrack in August/September |                                  |                |
| Suggestion: take one course online if possible                                |                                  |                |
| <b>Credits</b>  |                                  | <b>15</b>      |
| <b>Spring</b>   |                                  |                |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II | 3              |
| ART 1220  | FOUNDATION: DIGITAL MEDIA        | 3              |
| General Education or Elective   |                                  | 3              |

|  |   |           |
|--|---|-----------|
| General Education or Elective  |   | 3         |
| General Education or Elective  |   | 3         |
| <b>Credits</b>   |   | <b>15</b> |
| <b>Sophomore</b>   |   |           |
| <b>Fall</b>  |   |           |
| ART 1040   | GLOBAL INDIGENOUS ART                                   | 3         |
| One (1) approved Foreign Language course   |   | 5         |
| Language options: French, German, or Spanish   |   |           |
| General Education or Elective  |   | 3         |
| General Education or Elective  |   | 3         |
| Meet with advisor to discuss foreign language requirements and options               |   |           |
| Meet with advisor before mid-November to select spring classes                       |   |           |
| <b>Credits</b>   |   | <b>14</b> |
| <b>Spring</b>  |   |           |
| ART 3760   | RESEARCH, WRITING, AND COMMUNICATION FOR CAREERS IN ART | 3         |
| One (1) approved course from the Art History Core                                    |   | 3         |
| One (1) approved Foreign Language course   |   | 5         |
| General Education or Elective  |   | 3         |
| General Education or Elective  |   | 3         |
| Meet with advisor before spring break to select fall classes                         |   |           |
| Get acquainted with designated Art History faculty advisor                           |   |           |
| <b>Credits</b>   |   | <b>17</b> |
| <b>Junior</b>  |   |           |
| <b>Fall</b>  |   |           |
| One (1) approved class from the Art History Core                                     |   | 3         |
| One (1) approved class from the Art History Core                                     |   | 3         |
| One (1) approved Foreign Language course   |   | 3         |
| General Education or Elective  |   | 3         |
| General Education or Elective  |   | 3         |
| Meet with advisor before mid-November to select spring classes                       |   |           |
| <b>Credits</b>   |   | <b>15</b> |
| <b>Spring</b>  |   |           |
| ART 4530   | ART INTERNSHIP  | 3         |
| One (1) approved class from the Art History Core                                     |   | 3         |
| One (1) approved Foreign Language course   |   | 3         |
| General Education or Elective  |   | 3         |
| General Education or Elective  |   | 3         |
| Meet with academic advisor before spring break to select fall classes                |   |           |
| <b>Credits</b>   |   | <b>15</b> |
| <b>Senior</b>  |   |           |
| <b>Fall</b>  |   |           |
| ART 4940   | ART HISTORY METHODS                                     | 3         |
| One (1) approved class from the Art History Core                                     |   | 3         |
| General Education or Elective  |   | 3         |
| General Education or Elective  |   | 3         |
| General Education or Elective  |   | 3         |
| Meet with academic advisor to verify you will meet graduation requirements in spring |   |           |
| Meet with faculty advisor for career counseling, graduate school research, etc.      |   |           |
| <b>Credits</b>   |   | <b>15</b> |
| <b>Spring</b>  |   |           |
| ART 4990   | ART HISTORY CAPSTONE                                    | 1         |

|   |            |
|---|------------|
| General Education or Elective                                 | 3          |
| General Education or Elective                                 | 3          |
| General Education or Elective                                 | 3          |
| General Education or Elective                                 | 3          |
| General Education or Elective                                 | 1          |
| Apply for graduation by March 1st (available through Mavlink) |            |
| <b>Credits</b>  | <b>14</b>  |
| <b>Total Credits</b>  | <b>120</b> |

## Art History, Bachelor of Arts - Arts Management Four Year Plan

### Freshman

| Fall  |  | Credits   |
|---|--|-----------|
| ART 2050  | SURVEY OF WESTERN ART HISTORY I  | 3         |
| ART 1100<br>or ART 1110<br>or ART 1210  | FOUNDATION: DRAWING<br>or FOUNDATION: 3D DESIGN<br>or FOUNDATION: 2-D DESIGN | 3         |
| General Education or Elective   |  | 3         |
| General Education or Elective   |  | 3         |
| General Education or Elective   |  | 3         |
| Make an initial academic advising appointment on MavTrack in August/September |  |           |
| Suggestion: take one course online if possible                                |  |           |
| <b>Credits</b>  |  | <b>15</b> |

### Spring

|  |                                  |           |
|--|----------------------------------|-----------|
| ART 2060   | SURVEY OF WESTERN ART HISTORY II | 3         |
| ART 1220   | FOUNDATION: DIGITAL MEDIA        | 3         |
| General Education or Elective  |                                  | 3         |
| General Education or Elective  |                                  | 3         |
| General Education or Elective  |                                  | 3         |
| Meet with advisor at least once before spring break to select fall classes |                                  |           |
| Suggestion: take one course online if possible                             |                                  |           |
| <b>Credits</b>   |                                  | <b>15</b> |

### Sophomore

| Fall   |                       | Credits   |
|--|-----------------------|-----------|
| ART 1040   | GLOBAL INDIGENOUS ART | 3         |
| One (1) approved Foreign Language course                               |                       | 5         |
| Language options: French, German, or Spanish                           |                       |           |
| General Education or Elective  |                       | 3         |
| General Education or Elective  |                       | 3         |
| Meet with advisor to discuss foreign language requirements and options |                       |           |
| Meet with advisor before mid-November to select spring classes         |                       |           |
| <b>Credits</b>   |                       | <b>14</b> |

### Spring

|  |   |           |
|--|---|-----------|
| ART 3760   | RESEARCH, WRITING, AND COMMUNICATION FOR CAREERS IN ART | 3         |
| One (1) approved class from the Art History core             |   | 3         |
| One (1) approved class from the Art History Core             |   | 3         |
| One (1) approved Foreign Language course                     |   | 5         |
| General Education or Elective                                |   | 3         |
| Meet with advisor before spring break to select fall classes |   |           |
| Get acquainted with designated Art History faculty advisor   |   |           |
| <b>Credits</b>   |   | <b>17</b> |

### Junior

| Fall   |  | Credits   |
|--|--|-----------|
| PA 3500  | NONPROFIT ORGANIZATIONS AND MANAGEMENT | 3         |
| ART 4740   | INTRODUCTION TO COLLECTIONS MANAGEMENT | 3         |
| One (1) approved class from the Art History core               |  | 3         |
| General Education or Elective                                  |  | 3         |
| General Education or Elective                                  |  | 3         |
| Meet with advisor before mid-November to select spring classes |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Spring

|   |                       |           |
|---|-----------------------|-----------|
| PA 4500   | NONPROFIT FUNDRAISING | 3         |
| ART 4530  | ART INTERNSHIP        | 3         |
| One (1) approved class from the Art History Core                      |                       | 3         |
| General Education or Elective   |                       | 3         |
| General Education or Elective   |                       | 3         |
| Meet with academic advisor before spring break to select fall classes |                       |           |
| <b>Credits</b>  |                       | <b>15</b> |

### Senior

| Fall   |  | Credits   |
|--|--|-----------|
| One (1) approved class from the Art History Core                                     |  | 3         |
| One (1) approved class from the Arts Management Core                                 |  | 3         |
| General Education or Elective  |  | 3         |
| General Education or Elective  |  | 3         |
| General Education or Elective  |  | 3         |
| Meet with academic advisor to verify you will meet graduation requirements in spring |  |           |
| Meet with faculty advisor for career counseling, graduate school research, etc.      |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Spring

|   |                      |            |
|---|----------------------|------------|
| ART 4990  | ART HISTORY CAPSTONE | 1          |
| General Education or Elective                                 |                      | 3          |
| General Education or Elective                                 |                      | 3          |
| General Education or Elective                                 |                      | 3          |
| General Education or Elective                                 |                      | 3          |
| General Education or Elective                                 |                      | 1          |
| Apply for graduation by March 1st (available through Mavlink) |                      |            |
| <b>Credits</b>  |                      | <b>14</b>  |
| <b>Total Credits</b>  |                      | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

# Academic Art History Concentration

## Art History, Bachelor of Arts - Academic Art History Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 54-56 Hours Required</b>  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| Minimum of "C" required   |   |           |
| <b>ART HISTORY REQUIREMENTS</b>   |   |           |
| <b>Select one of the following</b>  |   | <b>3</b>  |
| ART 1100  | FOUNDATION: DRAWING                                     |           |

|   |   |            |
|---|---|------------|
| ART 1110  | FOUNDATION: 3D DESIGN   |            |
| ART 1210  | FOUNDATION: 2-D DESIGN  |            |
| <b>All of the following</b>   |   | <b>12</b>  |
| ART 1220  | FOUNDATION: DIGITAL MEDIA                                     |            |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I (**)                          |            |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II (**)                         |            |
| ART 3760  | RESEARCH, WRITING, AND COMMUNICATION FOR CAREERS IN ART (^)   |            |
| <b>ADVANCED ART HISTORY REQUIREMENTS</b>                                |   | <b>5-7</b> |
| ART 4530  | ART INTERNSHIP (^)  |            |
| ART 4940  | ART HISTORY METHODS (^)                                       |            |
| ART 4990  | ART HISTORY CAPSTONE (^)                                      |            |
| <b>ART HISTORY CORE</b>   |   | <b>18</b>  |
| Six classes must be selected from six different categories listed below |   |            |
| <b>Ancient/Classical</b>  |   |            |
| ART 3700  | INTRODUCTION TO ANCIENT ART (^)                               |            |
| ART 3710  | EGYPTIAN ART (^)  |            |
| ART 3720  | GREEK ART (^)   |            |
| ART 3730  | ETRUSCAN & ROMAN ART (^)                                      |            |
| ART 3860  | WOMEN IN ANCIENT AND MEDIEVAL ART (^)                         |            |
| <b>Medieval</b>   |   |            |
| ART 3860  | WOMEN IN ANCIENT AND MEDIEVAL ART (^)                         |            |
| ART 4770  | EARLY MEDIEVAL ART (^)  |            |
| ART 4780  | LATE MEDIEVAL ART HISTORY (^)                                 |            |
| <b>Renaissance/Baroque</b>  |   |            |
| ART 4760  | TECHNICAL ART HISTORY (^)                                     |            |
| ART 4810  | NORTHERN EUROPEAN RENAISSANCE ART HISTORY (^)                 |            |
| ART 4830  | ITALIAN RENAISSANCE ART HISTORY (^)                           |            |
| ART 4850  | BAROQUE AND ROCOCO ART HISTORY (^)                            |            |
| <b>19th Century/American</b>  |   |            |
| ART 3750  | AMERICAN ART (^)  |            |
| ART 3830  | HISTORY OF PHOTOGRAPHY (^)                                    |            |
| ART 4880  | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) (^)  |            |
| <b>Modern/Contemporary</b>  |   |            |
| ART 3800  | HISTORY OF DESIGN (^)   |            |
| ART 3830  | HISTORY OF PHOTOGRAPHY (^)                                    |            |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                          |            |
| ART 4880  | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) (^)  |            |
| ART 4890  | MODERN ART II (ART OF EUROPE AND THE AMERICAS, 1918-1968) (^) |            |
| ART 4900  | CONTEMPORARY ART HISTORY SINCE 1968 (^)                       |            |
| <b>Architecture</b>   |   |            |
| ART 3770  | HISTORY OF ARCHITECTURE TO 1850 (^)                           |            |
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850 (^)                        |            |
| <b>Global Art</b>   |   |            |
| ART 1040  | GLOBAL INDIGENOUS ART (**)                                    |            |
| <b>Art Theory &amp; Criticism</b>                                       |   |            |



|  |  |
|--|--|
| ART 4920   | ART IN THEORY AND IN PRACTICE SINCE 1900 (^) |
| ART 4930   | SPECIAL TOPICS IN ART HISTORY (^)            |
| ART 4950   | ART CRITICISM (^)                            |
| <b>FOREIGN LANGUAGE REQUIREMENT</b>  |  |
| Students must complete four consecutive semesters (two academic years) of the same language. This requirement will be waived if students have completed four years of one language in high school. Language options: French, German, or Spanish. |  |
| <b>ELECTIVES</b>   |  |
| Elective hours as required to reach a total of 120 hours   |  |

## Arts Management Concentration

### Art History, Bachelor of Arts - Arts Management Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 54-56 Hours Required</b>  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| Minimum of "C" required   |   |           |

|   |   |
|---|---|
| <b>ART HISTORY REQUIREMENTS</b>   |   |
| <b>Select one of the following</b>  |   |
| ART 1100  | FOUNDATION: DRAWING   |
| ART 1110  | FOUNDATION: 3D DESIGN   |
| ART 1210  | FOUNDATION: 2-D DESIGN  |
| <b>All of the following</b>   |   |
| ART 1220  | FOUNDATION: DIGITAL MEDIA                                     |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I (**)                          |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II (**)                         |
| <b>Select one of the following</b>  |   |
| ART 3760  | RESEARCH, WRITING, AND COMMUNICATION FOR CAREERS IN ART (^)   |
| ART 4020  | PROFESSIONAL STUDIO PRACTICES (^)                             |
| <b>ADVANCED ART HISTORY REQUIREMENTS</b>                                  |   |
| ART 4530  | ART INTERNSHIP (^)  |
| ART 4990  | ART HISTORY CAPSTONE (^)                                      |
| <b>ART HISTORY CORE</b>   |   |
| Five classes must be selected from five different categories listed below |   |
| <b>Ancient/Classical</b>  |   |
| ART 3700  | INTRODUCTION TO ANCIENT ART (^)                               |
| ART 3710  | EGYPTIAN ART (^)  |
| ART 3720  | GREEK ART (^)   |
| ART 3730  | ETRUSCAN & ROMAN ART (^)                                      |
| ART 3860  | WOMEN IN ANCIENT AND MEDIEVAL ART (^)                         |
| <b>Medieval</b>   |   |
| ART 3860  | WOMEN IN ANCIENT AND MEDIEVAL ART (^)                         |
| ART 4770  | EARLY MEDIEVAL ART (^)  |
| ART 4780  | LATE MEDIEVAL ART HISTORY (^)                                 |
| <b>Renaissance/Baroque</b>  |   |
| ART 4760  | TECHNICAL ART HISTORY (^)                                     |
| ART 4810  | NORTHERN EUROPEAN RENAISSANCE ART HISTORY (^)                 |
| ART 4830  | ITALIAN RENAISSANCE ART HISTORY (^)                           |
| ART 4850  | BAROQUE AND ROCOCO ART HISTORY (^)                            |
| <b>19th Century/American</b>  |   |
| ART 3750  | AMERICAN ART (^)  |
| ART 3830  | HISTORY OF PHOTOGRAPHY (^)                                    |
| ART 4880  | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) (^)  |
| <b>Modern/Contemporary</b>  |   |
| ART 3800  | HISTORY OF DESIGN (^)   |
| ART 3830  | HISTORY OF PHOTOGRAPHY (^)                                    |
| ART 3870  | GENDER & SEXUALITY IN MODERN ART (^)                          |
| ART 4880  | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) (^)  |
| ART 4890  | MODERN ART II (ART OF EUROPE AND THE AMERICAS, 1918-1968) (^) |
| ART 4900  | CONTEMPORARY ART HISTORY SINCE 1968 (^)                       |
| <b>Architecture</b>   |   |
| ART 3770  | HISTORY OF ARCHITECTURE TO 1850 (^)                           |

|   |  |           |
|---|--|-----------|
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850 (^)                     |           |
| <b>Global Art</b>   |  |           |
| ART 1040  | GLOBAL INDIGENOUS ART (**)                                 |           |
| <b>Art Theory &amp; Criticism</b>   |  |           |
| ART 4020  | PROFESSIONAL STUDIO PRACTICES (^)                          |           |
| ART 4930  | SPECIAL TOPICS IN ART HISTORY (^)                          |           |
| ART 4950  | ART CRITICISM (^)  |           |
| <b>FOREIGN LANGUAGE REQUIREMENT –</b>   |  | <b>10</b> |
| Students must complete two consecutive semesters (one academic year) of the same language. This requirement will be waived if student has completed four years of one language in high school. Language options: French, German, Spanish, or ASL. |  |           |
| <b>ARTS MANAGEMENT CONCENTRATION - 12 Hours Required</b>  |  |           |
| <b>All of the following:</b>  |  | <b>9</b>  |
| ART 4740  | INTRODUCTION TO COLLECTIONS MANAGEMENT (^)                 |           |
| PA 3500   | NONPROFIT ORGANIZATIONS AND MANAGEMENT (^)                 |           |
| PA 4500   | NONPROFIT FUNDRAISING (^)                                  |           |
| <b>Select one of the following</b>  |  | <b>3</b>  |
| ART 4760  | TECHNICAL ART HISTORY (^ unless taken above)               |           |
| ENTR 3710   | ENTREPRENEURIAL FOUNDATIONS (^)                            |           |
| JMC 3110  | PHOTOGRAPHY  |           |
| MGMT 1500   | INTRODUCTION TO BUSINESS (**)                              |           |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                      |           |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                                |           |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                |           |
| MKT 3370  | SOCIAL MEDIA MARKETING (^)                                 |           |
| PA 2000   | LEADERSHIP & ADMINISTRATION (**)                           |           |
| PA 4100   | MARKETING IN PUBLIC, NON-PROFIT AND AVIATION ORGANIZATIONS |           |
| PA 4530   | STRATEGIC PLANNING (^)                                     |           |
| <b>ELECTIVES</b>  |  |           |
| Elective hours as required to reach a total of 120 hours  |  |           |

## Art History Minor

### Art History Minor Requirements

| Code  | Title                             | Credits   |
|---|-----------------------------------|-----------|
| <b>Art History Core</b>   |                                   | <b>6</b>  |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I   |           |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II  |           |
| <b>Art History Options</b>  |                                   |           |
| <b>Select no more than one course from four of the following categories:</b> <sup>1</sup> |                                   | <b>12</b> |
| Ancient/Classical:  |                                   |           |
| ART 3700  | INTRODUCTION TO ANCIENT ART       |           |
| ART 3710  | EGYPTIAN ART                      |           |
| ART 3720  | GREEK ART                         |           |
| ART 3730  | ETRUSCAN & ROMAN ART              |           |
| ART 3860  | WOMEN IN ANCIENT AND MEDIEVAL ART |           |
| Medieval:   |                                   |           |

|                        |   |  |
|------------------------|---|--|
| ART 3860               | WOMEN IN ANCIENT AND MEDIEVAL ART                         |  |
| ART 4770               | EARLY MEDIEVAL ART  |  |
| ART 4780               | LATE MEDIEVAL ART HISTORY                                 |  |
| Renaissance/Baroque:   |   |  |
| ART 4810               | NORTHERN EUROPEAN RENAISSANCE ART HISTORY                 |  |
| ART 4830               | ITALIAN RENAISSANCE ART HISTORY                           |  |
| ART 4850               | BAROQUE AND ROCOCO ART HISTORY                            |  |
| 19th Century/American: |   |  |
| ART 3750               | AMERICAN ART  |  |
| ART 3830               | HISTORY OF PHOTOGRAPHY                                    |  |
| ART 4880               | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920)  |  |
| Modern/Contemporary:   |   |  |
| ART 3800               | HISTORY OF DESIGN   |  |
| ART 3830               | HISTORY OF PHOTOGRAPHY                                    |  |
| ART 3870               | GENDER & SEXUALITY IN MODERN ART                          |  |
| ART 4880               | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920)  |  |
| ART 4890               | MODERN ART II (ART OF EUROPE AND THE AMERICAS, 1918-1968) |  |
| ART 4900               | CONTEMPORARY ART HISTORY SINCE 1968                       |  |
| Architecture:          |   |  |
| ART 3770               | HISTORY OF ARCHITECTURE TO 1850                           |  |
| ART 3780               | HISTORY OF ARCHITECTURE SINCE 1850                        |  |
| Non-Western Art:       |   |  |
| ART 1040               | GLOBAL INDIGENOUS ART                                     |  |
| ART 2070               | ART OF INDIA AND SOUTHEAST ASIA                           |  |
| ART 2080               | ART OF CHINA AND JAPAN                                    |  |
| Theory/Criticism:      |   |  |
| ART 4920               | ART IN THEORY AND IN PRACTICE SINCE 1900                  |  |
| ART 4950               | ART CRITICISM   |  |

<sup>1</sup> Note: ART 4930 for 3 credits may be applied to applicable category.

## Studio Art, Bachelor of Arts

The Bachelor of Arts in studio art (BASA) requires a minimum of 120 credit hours of course work.

The BASA provides a general liberal arts degree program with specialization in studio art. For the BASA, 54 of the required 120 credit hours are in ART courses.

### Studio Art, Bachelor of Arts Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Academic Skills</b>                        |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |

|   |   |
|---|---|
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge 13</b>  |   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility 6</b>   |   |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 54 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| Minimum of "C" required   |   |
| <b>STUDIO CORE I</b>  |   |
| <b>All of the following: 12</b>   |   |
| ART 1100  | FOUNDATION: DRAWING                                     |
| ART 1110  | FOUNDATION: 3D DESIGN                                   |
| ART 1210  | FOUNDATION: 2-D DESIGN                                  |
| ART 1220  | FOUNDATION: DIGITAL MEDIA                               |
| ART 2000  | CORE ONE PORTFOLIO REVIEW (^)                           |
| <b>ART HISTORY REQUIREMENT 9</b>  |   |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I (**)                    |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II (**)                   |
| ART HISTORY ELECTIVE 3000 LEVEL OR ABOVE  |   |
| <b>SELECT A CONCENTRATION 33</b>  |   |
| Graphic Design  |   |
| Illustration  |   |
| Media Arts  |   |
| Two Dimensional Arts  |   |
| Three Dimensional Arts  |   |
| Art Education   |   |
| BASA students are encouraged to complete a minimum of one minor or second major.  |   |
| <b>ELECTIVES</b>  |   |
| Elective hours as required to reach a total of 120 hours  |   |

## Studio Art, Bachelor of Arts Concentrations

- Graphic Design (p. 478)
- Illustration (p. 480)
- Media Arts (p. 481)

- Two Dimensional Arts (p. 485)
- Three Dimensional Arts (p. 484)
- Art Education, Bachelor of Arts in Studio Art (p. 490)

## Graphic Design Concentration Studio Art, Bachelor of Arts, Studio Art Concentration in Graphic Design Requirements

| Code  | Title   | Credits |
|---|---|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |         |
| Minimum of "C-"required   |   |         |
| <b>Fundamental Skills 15</b>  |   |         |
| <b>Writing – 6 hrs.</b>   |   |         |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |         |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |         |
| <b>Oral Communication – 3 hrs.</b>  |   |         |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |         |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |         |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |         |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |         |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |         |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |         |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |         |
| <b>Data Literacy – 3 hrs.</b>   |   |         |
| Select one from the following:  |   |         |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |         |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |         |
| <b>Breadth of Knowledge 13</b>  |   |         |
| Social Science – 3 hrs.   |   |         |
| Humanities – 3 hrs.   |   |         |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |         |
| Arts – 3 hrs.   |   |         |
| <b>Individual and Social Responsibility 6</b>   |   |         |
| Cultural Knowledge – 3 hrs.   |   |         |
| Civic Knowledge and Engagement – 3 hrs.   |   |         |
| <b>MAJOR REQUIREMENTS - 54 Hours Required</b>   |   |         |
| **Course will satisfy UNO's General Education requirement   |   |         |
| ^Course requires pre-requisite(s)   |   |         |
| Minimum of "C" required   |   |         |
| <b>STUDIO CORE I</b>  |   |         |
| <b>All of the following 12</b>  |   |         |
| ART 1100  | FOUNDATION: DRAWING                                     |         |
| ART 1110  | FOUNDATION: 3D DESIGN                                   |         |
| ART 1210  | FOUNDATION: 2-D DESIGN                                  |         |
| ART 1220  | FOUNDATION: DIGITAL MEDIA                               |         |
| ART 2000  | CORE ONE PORTFOLIO REVIEW (^)                           |         |

**STUDIO CORE II****Select one of the following 3**

|          |  |
|----------|--|
| ART 1810 | WATERCOLOR I                             |
| ART 2100 | LIFE DRAWING I (^)                       |
| ART 2910 | OBSERVATIONAL DRAWING FOR SKETCHBOOK (^) |
| ART 3410 | ELEMENTARY PAINTING (^)                  |
| ART 3510 | ELEMENTARY PRINTMAKING (^)               |

**Select one of the following 3**

|          |                          |
|----------|--------------------------|
| ART 3200 | LETTERPRESS 1            |
| ART 3230 | BOOK STRUCTURES          |
| ART 3310 | ELEMENTARY SCULPTURE (^) |
| ART 3530 | PAPERMAKING (^)          |
| ART 3610 | ELEMENTARY CERAMICS (^)  |

**Select one of the following 3**

|          |  |
|----------|--|
| ART 2920 | ILLUSTRATION 1: INTRODUCTION TO ILLUSTRATION (^) |
| ART 3000 | MEDIA ARTS 1 (^)                                 |
| ART 3160 | GAME DESIGN AS ART (^)                           |

**Select one of the following 3**

|          |   |
|----------|---|
| ART 3120 | MEDIA ARTS 2 (^)  |
| ART 3150 | VIDEO ART (^)   |
| ART 3140 | COMPUTER-GENERATED IMAGERY (CGI) I: INTERACTIVE 3D VIRTUAL SPACES (^) |
| ART 3520 | PHOTOGRAPHIC DIGITAL PRINTMAKING (^)                                  |
| ART 3920 | ILLUSTRATION 2: THE STATIC IMAGE (^)                                  |

**Select one of the following 3**

|          |   |
|----------|---|
| ART 2300 | WEB DESIGN (^)                                  |
| ART 3170 | DIGITAL GAME DESIGN (^)                         |
| ART 3220 | HAND PRODUCED BOOK II: LETTERPRESS PRINTING (^) |
| ART 4130 | MEDIA ART III (^)                               |
| ART 4220 | ILLUSTRATION 3: SEQUENTIAL IMAGES (^)           |
| ART 4530 | ART INTERNSHIP (^)                              |

**ART HISTORY REQUIREMENT 9**

|          |                                       |
|----------|---------------------------------------|
| ART 2050 | SURVEY OF WESTERN ART HISTORY I (**)  |
| ART 2060 | SURVEY OF WESTERN ART HISTORY II (**) |
| ART 3800 | HISTORY OF DESIGN (^)                 |

**GRAPHIC DESIGN CONCENTRATION****All of the following: 15**

|          |                           |
|----------|---------------------------|
| ART 2200 | TYPOGRAPHY (^)            |
| ART 3130 | GRAPHIC DESIGN 1 (^)      |
| ART 4150 | GRAPHIC DESIGN 2 (^)      |
| ART 4160 | GRAPHIC DESIGN 3 (^)      |
| ART 4170 | GRAPHIC DESIGN STUDIO (^) |

**CAPSTONE 3**

|             |                                   |
|-------------|-----------------------------------|
| ART 4020    | PROFESSIONAL STUDIO PRACTICES (^) |
| or ART 4170 | GRAPHIC DESIGN STUDIO             |
| ART 4040    | BASA SENIOR ART EXHIBITION        |

BASA students are encouraged to complete a minimum of one minor or second major.

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Studio Art, Bachelor of Arts, Studio Art Concentration in Graphic Design Four Year Plan

**Freshman**

| <b>Fall</b>                          |                                 | <b>Credits</b> |
|--------------------------------------|---------------------------------|----------------|
| ART 1100                             | FOUNDATION: DRAWING             | 3              |
| ART 1210                             | FOUNDATION: 2-D DESIGN          | 3              |
| ART 2050                             | SURVEY OF WESTERN ART HISTORY I | 3              |
| General Education Course or Elective |                                 | 3              |
| General Education Course or Elective |                                 | 3              |
| <b>Credits</b>                       |                                 | <b>15</b>      |

**Spring**

|                                      |                                  |           |
|--------------------------------------|----------------------------------|-----------|
| ART 1110                             | FOUNDATION: 3D DESIGN            | 3         |
| ART 1220                             | FOUNDATION: DIGITAL MEDIA        | 3         |
| ART 2060                             | SURVEY OF WESTERN ART HISTORY II | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>15</b> |

**Sophomore**

| <b>Fall</b>                          |                           |           |
|--------------------------------------|---------------------------|-----------|
| ART 2000                             | CORE ONE PORTFOLIO REVIEW | 0         |
| ART 3000                             | MEDIA ARTS 1              | 3         |
| ART 3130                             | GRAPHIC DESIGN 1          | 3         |
| General Education Course or Elective |                           | 3         |
| General Education Course or Elective |                           | 3         |
| General Education Course or Elective |                           | 3         |
| <b>Credits</b>                       |                           | <b>15</b> |

**Spring**

|                                      |                                  |           |
|--------------------------------------|----------------------------------|-----------|
| ART 2200                             | TYPOGRAPHY                       | 3         |
| ART 3520                             | PHOTOGRAPHIC DIGITAL PRINTMAKING | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 1         |
| <b>Credits</b>                       |                                  | <b>16</b> |

**Junior**

| <b>Fall</b>                          |                   |           |
|--------------------------------------|-------------------|-----------|
| ART 2300                             | WEB DESIGN        | 3         |
| ART 4150                             | GRAPHIC DESIGN 2  | 3         |
| ART 3800                             | HISTORY OF DESIGN | 3         |
| General Education Course or Elective |                   | 3         |
| General Education Course or Elective |                   | 3         |
| <b>Credits</b>                       |                   | <b>15</b> |

**Spring**

|                                      |                     |           |
|--------------------------------------|---------------------|-----------|
| ART 4160                             | GRAPHIC DESIGN 3    | 3         |
| ART 3410                             | ELEMENTARY PAINTING | 3         |
| General Education Course or Elective |                     | 3         |
| General Education Course or Elective |                     | 3         |
| General Education Course or Elective |                     | 3         |
| <b>Credits</b>                       |                     | <b>15</b> |

**Senior**

| <b>Fall</b>                          |                                    |   |
|--------------------------------------|------------------------------------|---|
| ART 4170                             | GRAPHIC DESIGN STUDIO <sup>1</sup> | 3 |
| ART 3200                             | LETTERPRESS 1                      | 3 |
| General Education Course or Elective |                                    | 3 |

|                                      |            |
|--------------------------------------|------------|
| General Education Course or Elective | 3          |
| General Education Course or Elective | 2          |
| <b>Credits</b>                       | <b>14</b>  |
| <b>Spring</b>                        |            |
| ART 4170 GRAPHIC DESIGN STUDIO       | 3          |
| ART 4040 BASA SENIOR ART EXHIBITION  | 0          |
| General Education Course or Elective | 3          |
| General Education Course or Elective | 3          |
| General Education Course or Elective | 3          |
| General Education Course or Elective | 3          |
| <b>Credits</b>                       | <b>15</b>  |
| <b>Total Credits</b>                 | <b>120</b> |

<sup>1</sup> \*This course is repeatable

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Illustration Concentration

### Studio Art, Bachelor of Arts in Studio Art Concentration in Illustration Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |

|   |   |
|---|---|
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   |   |
| <b>13</b>   |   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   |   |
| <b>6</b>  |   |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 54 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| Minimum of "C" required   |   |
| <b>STUDIO CORE I</b>  |   |
| <b>All of the following</b>   |   |
| <b>12</b>   |   |
| ART 1100  | FOUNDATION: DRAWING                                     |
| ART 1110  | FOUNDATION: 3D DESIGN                                   |
| ART 1210  | FOUNDATION: 2-D DESIGN                                  |
| ART 1220  | FOUNDATION: DIGITAL MEDIA                               |
| ART 2000  | CORE ONE PORTFOLIO REVIEW (^)                           |
| <b>STUDIO CORE II</b>   |   |
| <b>The following course:</b>  |   |
| <b>3</b>  |   |
| ART 2910  | OBSERVATIONAL DRAWING FOR SKETCHBOOK (^)                |
| <b>Select one of the following</b>  |   |
| <b>3</b>  |   |
| ART 1810  | WATERCOLOR I  |
| ART 2100  | LIFE DRAWING I (^)                                      |
| ART 3410  | ELEMENTARY PAINTING (^)                                 |
| <b>Select one of the following</b>  |   |
| <b>3</b>  |   |
| ART 3000  | MEDIA ARTS 1 (^)  |
| ART 3130  | GRAPHIC DESIGN 1 (^)                                    |
| <b>Select one of the following</b>  |   |
| <b>3</b>  |   |
| ART 3230  | BOOK STRUCTURES   |
| ART 3510  | ELEMENTARY PRINTMAKING (^)                              |
| ART 3520  | PHOTOGRAPHIC DIGITAL PRINTMAKING (^)                    |
| ART 3530  | PAPERMAKING (^)   |
| <b>Select one of the following</b>  |   |
| <b>3</b>  |   |
| ART 2100  | LIFE DRAWING I (^ unless already taken)                 |
| ART 3100  | ADVANCED DRAWING I (^)                                  |
| ART 3120  | MEDIA ARTS 2 (^)  |
| ART 3420  | INTERMEDIATE PAINTING (^)                               |
| <b>ART HISTORY REQUIREMENT</b>  |   |
| <b>9</b>  |   |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I (**)                    |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II (**)                   |

|  |  |
|--|--|
| ART HISTORY ELECTIVE 3000 LEVEL OR ABOVE   |  |
| <b>BACHELOR ART STUDIO ART ILLUSTRATION CONCENTRATION</b>                        |  |
| <b>All of the following:</b>   | <b>15</b>  |
| ART 2920   | ILLUSTRATION 1: INTRODUCTION TO ILLUSTRATION (^) |
| ART 3920   | ILLUSTRATION 2: THE STATIC IMAGE (^)             |
| ART 4220   | ILLUSTRATION 3: SEQUENTIAL IMAGES (^)            |
| ART 4290   | ILLUSTRATION STUDIO (^)                          |
| STUDIO ART ELECTIVE  |  |
| <b>CAPSTONE</b>  | <b>3</b>   |
| ART 4290   | ILLUSTRATION STUDIO (^)                          |
| or ART 4020  | PROFESSIONAL STUDIO PRACTICES                    |
| ART 4040   | BASA SENIOR ART EXHIBITION (^)                   |
| BASA students are encouraged to complete a minimum of one minor or second major. |  |
| <b>ELECTIVES</b>   |  |
| Elective hours as required to reach a total of 120 hours                         |  |

## Studio Art, Bachelor of Arts in Studio Art Concentration in Illustration Four Year Plan

### Freshman

| Fall                                 |                                  | Credits   |
|--------------------------------------|----------------------------------|-----------|
| ART 1100                             | FOUNDATION: DRAWING              | 3         |
| ART 1210                             | FOUNDATION: 2-D DESIGN           | 3         |
| ART 2050                             | SURVEY OF WESTERN ART HISTORY I  | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>15</b> |
| Spring                               |                                  |           |
| ART 1110                             | FOUNDATION: 3D DESIGN            | 3         |
| ART 1220                             | FOUNDATION: DIGITAL MEDIA        | 3         |
| ART 2060                             | SURVEY OF WESTERN ART HISTORY II | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>15</b> |

### Sophomore

| Fall                                 |  |           |
|--------------------------------------|--|-----------|
| ART 2000                             | CORE ONE PORTFOLIO REVIEW                    | 0         |
| ART 2910                             | OBSERVATIONAL DRAWING FOR SKETCHBOOK         | 3         |
| ART 2920                             | ILLUSTRATION 1: INTRODUCTION TO ILLUSTRATION | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |
| Spring                               |  |           |
| ART 2100                             | LIFE DRAWING I                               | 3         |
| ART 4900                             | CONTEMPORARY ART HISTORY SINCE 1968          | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |

| General Education Course or Elective |                                   | 1          |
|--------------------------------------|-----------------------------------|------------|
| <b>Credits</b>                       |                                   | <b>16</b>  |
| Junior                               |                                   |            |
| Fall                                 |                                   |            |
| ART 3510                             | ELEMENTARY PRINTMAKING            | 3          |
| ART 3920                             | ILLUSTRATION 2: THE STATIC IMAGE  | 3          |
| General Education Course or Elective |                                   | 3          |
| General Education Course or Elective |                                   | 3          |
| General Education Course or Elective |                                   | 3          |
| <b>Credits</b>                       |                                   | <b>15</b>  |
| Spring                               |                                   |            |
| ART 1810                             | WATERCOLOR I                      | 3          |
| ART 4220                             | ILLUSTRATION 3: SEQUENTIAL IMAGES | 3          |
| General Education Course or Elective |                                   | 3          |
| General Education Course or Elective |                                   | 3          |
| General Education Course or Elective |                                   | 3          |
| <b>Credits</b>                       |                                   | <b>15</b>  |
| Senior                               |                                   |            |
| Fall                                 |                                   |            |
| ART 4290                             | ILLUSTRATION STUDIO (^)           | 3          |
| ART 3130                             | GRAPHIC DESIGN 1                  | 3          |
| General Education Course or Elective |                                   | 3          |
| General Education Course or Elective |                                   | 3          |
| General Education Course or Elective |                                   | 2          |
| *This course is repeatable           |                                   |            |
| <b>Credits</b>                       |                                   | <b>14</b>  |
| Spring                               |                                   |            |
| ART 4290                             | ILLUSTRATION STUDIO (^)           | 3          |
| ART 4040                             | BASA SENIOR ART EXHIBITION        | 0          |
| ART 4020                             | PROFESSIONAL STUDIO PRACTICES     | 3          |
| General Education Course or Elective |                                   | 3          |
| General Education Course or Elective |                                   | 3          |
| General Education Course or Elective |                                   | 3          |
| *This course is repeatable           |                                   |            |
| <b>Credits</b>                       |                                   | <b>15</b>  |
| <b>Total Credits</b>                 |                                   | <b>120</b> |

## Media Arts Concentration Studio Art, Bachelor of Arts, Studio Art Concentration in Media Arts Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |



|   |   |
|---|---|
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 54 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| Minimum of "C" required   |   |
| <b>STUDIO CORE I</b>  |   |
| <b>All of the following</b>   | <b>12</b>   |
| ART 1100  | FOUNDATION: DRAWING                                     |
| ART 1110  | FOUNDATION: 3D DESIGN                                   |
| ART 1210  | FOUNDATION: 2-D DESIGN                                  |
| ART 1220  | FOUNDATION: DIGITAL MEDIA                               |
| ART 2000  | CORE ONE PORTFOLIO REVIEW (^)                           |
| <b>STUDIO CORE II</b>   |   |
| <b>Select one of the following:</b>   | <b>3</b>  |
| ART 2100  | LIFE DRAWING I (^)                                      |
| ART 2910  | OBSERVATIONAL DRAWING FOR SKETCHBOOK (^)                |
| <b>Select one of the following</b>  | <b>3</b>  |
| ART 1810  | WATERCOLOR I  |
| ART 2110  | LIFE DRAWING II (^)                                     |
| ART 2920  | ILLUSTRATION 1: INTRODUCTION TO ILLUSTRATION (^)        |
| ART 3410  | ELEMENTARY PAINTING (^)                                 |
| ART 3510  | ELEMENTARY PRINTMAKING (^)                              |
| <b>Select one of the following</b>  | <b>3</b>  |
| ART 3230  | BOOK STRUCTURES   |
| ART 3310  | ELEMENTARY SCULPTURE (^)                                |
| ART 3530  | PAPERMAKING (^)   |
| ART 3610  | ELEMENTARY CERAMICS (^)                                 |
| <b>ART HISTORY REQUIREMENT</b>  | <b>9</b>  |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I (**)                    |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II (**)                   |
| ART HISTORY ELECTIVE 3000 LEVEL OR ABOVE  |   |
| <b>BACHELOR ARTS STUDIO ART CONCENTRATION IN MEDIA ARTS - Select one Option</b>   | <b>21</b>   |
| <b>OPTION A: GAME DESIGN</b>  |   |

|  |   |
|--|---|
| ART 3140   | COMPUTER-GENERATED IMAGERY (CGI) I: INTERACTIVE 3D VIRTUAL SPACES (^) |
| ART 3160   | GAME DESIGN AS ART (^)  |
| ART 3170   | DIGITAL GAME DESIGN (^)   |
| ART 4140   | COMPUTER-GENERATED IMAGERY (CGI) II: 3D MODELING (^)                  |
| ART 4180   | ADVANCED DIGITAL GAME DESIGN (^)                                      |
| ART 4190   | GAME DESIGN STUDIO (^)  |
| One Art Course - Must be approved by advisor                                     |   |
| <b>OPTION B: INTERMEDIA AND DIGITAL ART</b>                                      |   |
| ART 3000   | MEDIA ARTS 1 (^)  |
| ART 3120   | MEDIA ARTS 2 (^)  |
| ART 3150   | VIDEO ART (^)   |
| ART 4130   | MEDIA ART III (^)   |
| 9 credit hours of approved ART courses - must be approved by advisor             |   |
| <b>CAPSTONE</b>  | <b>3</b>  |
| ART 4020   | PROFESSIONAL STUDIO PRACTICES (^)                                     |
| ART 4040   | BASA SENIOR ART EXHIBITION (^)  |
| BASA students are encouraged to complete a minimum of one minor or second major. |   |
| <b>ELECTIVES</b>   |   |
| Elective hours as required to reach a total of 120 hours                         |   |

## Studio Art, Bachelor of Arts, Studio Art Concentration in Media Arts: Intermedia and Digital Art Four Year Plan

| Freshman                             |                                  |           |
|--------------------------------------|----------------------------------|-----------|
| Fall                                 |                                  | Credits   |
| ART 1100                             | FOUNDATION: DRAWING              | 3         |
| ART 1210                             | FOUNDATION: 2-D DESIGN           | 3         |
| ART 2050                             | SURVEY OF WESTERN ART HISTORY I  | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>15</b> |
| Spring                               |                                  |           |
| ART 1110                             | FOUNDATION: 3D DESIGN            | 3         |
| ART 1220                             | FOUNDATION: DIGITAL MEDIA        | 3         |
| ART 2060                             | SURVEY OF WESTERN ART HISTORY II | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>15</b> |
| Sophomore                            |                                  |           |
| Fall                                 |                                  |           |
| ART 2000                             | CORE ONE PORTFOLIO REVIEW        | 0         |
| ART 2100                             | LIFE DRAWING I                   | 3         |
| ART 3510                             | ELEMENTARY PRINTMAKING           | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>15</b> |
| Spring                               |                                  |           |
| ART 3000                             | MEDIA ARTS 1                     | 3         |
| ART 3610                             | ELEMENTARY CERAMICS              | 3         |
| General Education Course or Elective |                                  | 3         |

|  |            |
|--|------------|
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 1          |
| <b>Credits</b>   | <b>16</b>  |
| <b>Junior</b>  |            |
| <b>Fall</b>  |            |
| ART 3120 MEDIA ARTS 2  | 3          |
| ART 4880 MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920)          | 3          |
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 3          |
| <b>Credits</b>   | <b>15</b>  |
| <b>Spring</b>  |            |
| ART 4130 MEDIA ART III <sup>1</sup>  | 3          |
| ART 3160 GAME DESIGN AS ART  | 3          |
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 3          |
| <b>Credits</b>   | <b>15</b>  |
| <b>Senior</b>  |            |
| <b>Fall</b>  |            |
| ART 3150 VIDEO ART   | 3          |
| ART 3140 COMPUTER-GENERATED IMAGERY (CGI) I: INTERACTIVE 3D VIRTUAL SPACES | 3          |
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 2          |
| <b>Credits</b>   | <b>14</b>  |
| <b>Spring</b>  |            |
| ART 4130 MEDIA ART III <sup>1</sup>  | 3          |
| ART 4020 PROFESSIONAL STUDIO PRACTICES                                     | 3          |
| ART 4040 BASA SENIOR ART EXHIBITION  | 0          |
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 3          |
| General Education Course or Elective                                       | 3          |
| <b>Credits</b>   | <b>15</b>  |
| <b>Total Credits</b>   | <b>120</b> |

<sup>1</sup> \*This course is repeatable

## Studio Art, Bachelor of Arts, Studio Art Concentration in Media Arts: Game Design Four Year Plan

|  |           |
|--|-----------|
| <b>Freshman</b>                          |           |
| <b>Fall</b>                              |           |
| ART 1100 FOUNDATION: DRAWING             | 3         |
| ART 1210 FOUNDATION: 2-D DESIGN          | 3         |
| ART 2050 SURVEY OF WESTERN ART HISTORY I | 3         |
| General Education Course or Elective     | 3         |
| General Education Course or Elective     | 3         |
| <b>Credits</b>                           | <b>15</b> |

|  |           |
|--|-----------|
| <b>Spring</b>  |           |
| ART 1110 FOUNDATION: 3D DESIGN   | 3         |
| ART 1220 FOUNDATION: DIGITAL MEDIA   | 3         |
| ART 2060 SURVEY OF WESTERN ART HISTORY II                                  | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| <b>Credits</b>   | <b>15</b> |
| <b>Sophomore</b>   |           |
| <b>Fall</b>  |           |
| ART 2000 CORE ONE PORTFOLIO REVIEW   | 0         |
| ART 2100 LIFE DRAWING I  | 3         |
| ART 3140 COMPUTER-GENERATED IMAGERY (CGI) I: INTERACTIVE 3D VIRTUAL SPACES | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| <b>Credits</b>   | <b>15</b> |
| <b>Spring</b>  |           |
| ART 3160 GAME DESIGN AS ART  | 3         |
| ART 3610 ELEMENTARY CERAMICS   | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 1         |
| <b>Credits</b>   | <b>16</b> |
| <b>Junior</b>  |           |
| <b>Fall</b>  |           |
| ART 3000 MEDIA ARTS 1  | 3         |
| ART 3410 ELEMENTARY PAINTING   | 3         |
| ART 4880 MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920)          | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| <b>Credits</b>   | <b>15</b> |
| <b>Spring</b>  |           |
| ART 3170 DIGITAL GAME DESIGN   | 3         |
| ART 4140 COMPUTER-GENERATED IMAGERY (CGI) II: 3D MODELING                  | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| <b>Credits</b>   | <b>15</b> |
| <b>Senior</b>  |           |
| <b>Fall</b>  |           |
| ART 4180 ADVANCED DIGITAL GAME DESIGN                                      | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 2         |
| <b>Credits</b>   | <b>14</b> |
| <b>Spring</b>  |           |
| ART 4190 GAME DESIGN STUDIO <sup>1</sup>                                   | 3         |
| ART 4020 PROFESSIONAL STUDIO PRACTICES                                     | 3         |
| ART 4040 BASA SENIOR ART EXHIBITION  | 0         |
| General Education Course or Elective                                       | 3         |
| General Education Course or Elective                                       | 3         |

|                                      |            |
|--------------------------------------|------------|
| General Education Course or Elective | 3          |
| <b>Credits</b>                       | <b>15</b>  |
| <b>Total Credits</b>                 | <b>120</b> |

<sup>1</sup> \*This course is repeatable

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Three Dimensional Arts Concentration

### Studio Art, Bachelor of Arts

### Studio Art Concentration in Three Dimensional Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |

|  |   |           |
|--|---|-----------|
| STAT 1530  | ELEMENTARY STATISTICS                           |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.                  |   |           |
| <b>Breadth of Knowledge</b>  |   | <b>13</b> |
| Social Science – 3 hrs.  |   |           |
| Humanities – 3 hrs.  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |           |
| Arts – 3 hrs.  |   |           |
| <b>Individual and Social Responsibility</b>  |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |           |
| Civic Knowledge and Engagement – 3 hrs.  |   |           |
| <b>MAJOR REQUIREMENTS - 54 Hours Required</b>  |   |           |
| **Course will satisfy UNO's General Education requirement  |   |           |
| ^Course requires pre-requisite(s)  |   |           |
| Minimum of "C" required  |   |           |
| <b>STUDIO CORE I</b>   |   |           |
| <b>All of the following</b>  |   | <b>12</b> |
| ART 1100   | FOUNDATION: DRAWING                             |           |
| ART 1110   | FOUNDATION: 3D DESIGN                           |           |
| ART 1210   | FOUNDATION: 2-D DESIGN                          |           |
| ART 1220   | FOUNDATION: DIGITAL MEDIA                       |           |
| ART 2000   | CORE ONE PORTFOLIO REVIEW (^)                   |           |
| <b>STUDIO CORE II</b>  |   |           |
| <b>All of the following:</b>   |   | <b>9</b>  |
| ART 2100   | LIFE DRAWING I (^)                              |           |
| ART 3410   | ELEMENTARY PAINTING (^)                         |           |
| ART 3610   | ELEMENTARY CERAMICS (^)                         |           |
| <b>Select One Sculpture Course</b>   |   | <b>3</b>  |
| ART 3310   | ELEMENTARY SCULPTURE (^)                        |           |
| ART 3330   | ART IN PUBLIC PLACES (^)                        |           |
| <b>Select One Printmaking Course</b>   |   | <b>3</b>  |
| ART 3510   | ELEMENTARY PRINTMAKING (^)                      |           |
| ART 3520   | PHOTOGRAPHIC DIGITAL PRINTMAKING (^)            |           |
| <b>ART HISTORY REQUIREMENT</b>   |   | <b>9</b>  |
| ART 2050   | SURVEY OF WESTERN ART HISTORY I (**)            |           |
| ART 2060   | SURVEY OF WESTERN ART HISTORY II (**)           |           |
| ART HISTORY ELECTIVE 3000 LEVEL OR ABOVE   |   |           |
| <b>BACHELOR ART STUDIO ART 3D CONCENTRATION - 12 Hours Required</b>  |   | <b>12</b> |
| Students must work with an advisor to select coursework for an emphasis which includes Intermediate and Advanced courses (6cr); plus two electives within the concentration (6cr). |   |           |
| ART 3200   | LETTERPRESS 1                                   |           |
| ART 3220   | HAND PRODUCED BOOK II: LETTERPRESS PRINTING (^) |           |
| ART 3230   | BOOK STRUCTURES                                 |           |
| ART 3320   | INTERMEDIATE SCULPTURE                          |           |
| ART 3620   | INTERMEDIATE CERAMICS (^)                       |           |
| ART 4310   | ADVANCED SCULPTURE (^)                          |           |
| ART 4610   | ADVANCED CERAMICS (^)                           |           |
| <b>STUDIO ELECTIVE OUTSIDE THE CONCENTRATION</b>   |   | <b>3</b>  |
| Select one Studio Art course approved by an academic advisor   |   |           |
| <b>CAPSTONE</b>  |   | <b>3</b>  |

|  |                                   |  |
|--|-----------------------------------|--|
| ART 4020   | PROFESSIONAL STUDIO PRACTICES (^) |  |
| ART 4040   | BASA SENIOR ART EXHIBITION (^)    |  |
| BASA students are encouraged to complete a minimum of one minor or second major. |                                   |  |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Studio Art, Bachelor of Arts Studio Art Concentration in Three Dimensional Arts Four Year Plan

**Freshman**

| <b>Fall</b>                          |                                 | <b>Credits</b> |
|--------------------------------------|---------------------------------|----------------|
| ART 1100                             | FOUNDATION: DRAWING             | 3              |
| ART 1210                             | FOUNDATION: 2-D DESIGN          | 3              |
| ART 2050                             | SURVEY OF WESTERN ART HISTORY I | 3              |
| General Education Course or Elective |                                 | 3              |
| General Education Course or Elective |                                 | 3              |
| <b>Credits</b>                       |                                 | <b>15</b>      |

**Spring**

|                                      |                                  |           |
|--------------------------------------|----------------------------------|-----------|
| ART 1110                             | FOUNDATION: 3D DESIGN            | 3         |
| ART 1220                             | FOUNDATION: DIGITAL MEDIA        | 3         |
| ART 2060                             | SURVEY OF WESTERN ART HISTORY II | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>15</b> |

**Sophomore**

| <b>Fall</b>                          |                           |           |
|--------------------------------------|---------------------------|-----------|
| ART 2000                             | CORE ONE PORTFOLIO REVIEW | 0         |
| ART 2100                             | LIFE DRAWING I            | 3         |
| ART 3310                             | ELEMENTARY SCULPTURE      | 3         |
| General Education Course or Elective |                           | 3         |
| General Education Course or Elective |                           | 3         |
| General Education Course or Elective |                           | 3         |
| <b>Credits</b>                       |                           | <b>15</b> |

**Spring**

|                                      |                        |           |
|--------------------------------------|------------------------|-----------|
| ART 3610                             | ELEMENTARY CERAMICS    | 3         |
| ART 3510                             | ELEMENTARY PRINTMAKING | 3         |
| General Education Course or Elective |                        | 3         |
| General Education Course or Elective |                        | 3         |
| General Education Course or Elective |                        | 3         |
| General Education Course or Elective |                        | 1         |
| <b>Credits</b>                       |                        | <b>16</b> |

**Junior**

| <b>Fall</b>                          |  |           |
|--------------------------------------|--|-----------|
| ART 3410                             | ELEMENTARY PAINTING                                      | 3         |
| ART 3320                             | INTERMEDIATE SCULPTURE                                   | 3         |
| ART 4880                             | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

**Spring**

|                                      |                       |   |
|--------------------------------------|-----------------------|---|
| ART 3620                             | INTERMEDIATE CERAMICS | 3 |
| General Education Course or Elective |                       | 3 |
| General Education Course or Elective |                       | 3 |
| General Education Course or Elective |                       | 3 |

|                                      |           |
|--------------------------------------|-----------|
| General Education Course or Elective | 3         |
| <b>Credits</b>                       | <b>15</b> |

**Senior****Fall**

|                                      |                 |           |
|--------------------------------------|-----------------|-----------|
| ART 3230                             | BOOK STRUCTURES | 3         |
| ART 3000                             | MEDIA ARTS 1    | 3         |
| General Education Course or Elective |                 | 3         |
| General Education Course or Elective |                 | 3         |
| General Education Course or Elective |                 | 2         |
| <b>Credits</b>                       |                 | <b>14</b> |

**Spring**

|                                      |                               |            |
|--------------------------------------|-------------------------------|------------|
| ART 4610                             | ADVANCED CERAMICS             | 3          |
| ART 4020                             | PROFESSIONAL STUDIO PRACTICES | 3          |
| ART 4040                             | BASA SENIOR ART EXHIBITION    | 0          |
| General Education Course or Elective |                               | 3          |
| General Education Course or Elective |                               | 3          |
| General Education Course or Elective |                               | 3          |
| <b>Credits</b>                       |                               | <b>15</b>  |
| <b>Total Credits</b>                 |                               | <b>120</b> |

<sup>1</sup> \*This course is repeatable

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Two Dimensional Arts Concentration

### Studio Art, Bachelor of Arts, Studio Art Concentration in Two Dimensional Arts Requirements

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |
| Minimum of "C-" required                                  |       |         |

|   |           |
|---|-----------|
| <b>Fundamental Skills</b>   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |           |
| ENGL 1150 ENGLISH COMPOSITION I   |           |
| ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>  |           |
| CMST 1110 PUBLIC SPEAKING FUNDS   |           |
| or CMST 2120 ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |           |
| MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING   |           |
| or MATH 1130 QUANTITATIVE LITERACY  |           |
| or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS  |           |
| or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT   |           |
| <b>Data Literacy – 3 hrs.</b>   |           |
| Select one from the following:  |           |
| STAT 1100 DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530 ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |           |
| <b>Breadth of Knowledge</b>   | <b>13</b> |
| Social Science – 3 hrs.   |           |
| Humanities – 3 hrs.   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |           |
| Arts – 3 hrs.   |           |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |           |
| Civic Knowledge and Engagement – 3 hrs.   |           |
| <b>MAJOR REQUIREMENTS - 54 Hours Required</b>   |           |
| **Course will satisfy UNO's General Education requirement   |           |
| ^Course requires pre-requisite(s)   |           |
| Minimum of "C" required   |           |
| <b>STUDIO CORE I</b>  |           |
| <b>All of the following</b>   | <b>12</b> |
| ART 1100 FOUNDATION: DRAWING  |           |
| ART 1110 FOUNDATION: 3D DESIGN  |           |
| ART 1210 FOUNDATION: 2-D DESIGN   |           |
| ART 1220 FOUNDATION: DIGITAL MEDIA  |           |
| ART 2000 CORE ONE PORTFOLIO REVIEW (^)  |           |
| <b>STUDIO CORE II</b>   |           |
| <b>All of the following:</b>  | <b>9</b>  |
| ART 2100 LIFE DRAWING I (^)   |           |
| ART 3410 ELEMENTARY PAINTING (^)  |           |
| ART 3610 ELEMENTARY CERAMICS (^)  |           |
| <b>Select One Sculpture Course</b>  | <b>3</b>  |
| ART 3310 ELEMENTARY SCULPTURE (^)   |           |
| ART 3330 ART IN PUBLIC PLACES (^)   |           |
| <b>Select One Printmaking Course</b>  | <b>3</b>  |
| ART 3510 ELEMENTARY PRINTMAKING (^)   |           |
| ART 3520 PHOTOGRAPHIC DIGITAL PRINTMAKING (^)   |           |
| <b>ART HISTORY REQUIREMENT</b>  | <b>9</b>  |
| ART 2050 SURVEY OF WESTERN ART HISTORY I (**)   |           |
| ART 2060 SURVEY OF WESTERN ART HISTORY II (**)  |           |
| ART HISTORY ELECTIVE 3000 LEVEL OR ABOVE  |           |

|  |           |
|--|-----------|
| <b>BACHELOR ARTS STUDIO ART 2D ARTS CONCENTRATION</b>  | <b>12</b> |
| Students must work with an advisor to select coursework for an emphasis which includes Intermediate and Advanced courses (6cr); plus two electives within the concentration (6cr). |           |
| ART 1810 WATERCOLOR I  |           |
| ART 1820 WATERCOLOR II (^)   |           |
| ART 2110 LIFE DRAWING II (^)   |           |
| ART 3100 ADVANCED DRAWING I (^)  |           |
| ART 3110 ADVANCED DRAWING II (^)   |           |
| ART 3420 INTERMEDIATE PAINTING (^)   |           |
| ART 3520 PHOTOGRAPHIC DIGITAL PRINTMAKING (^)  |           |
| ART 3530 PAPERMAKING (^)   |           |
| ART 3910 INTERMEDIATE PRINTMAKING (^)  |           |
| ART 4410 ADVANCED PAINTING (^)   |           |
| ART 4510 ADVANCED TECHNIQUES IN PRINTMAKING (^)  |           |
| <b>STUDIO ELECTIVE OUTSIDE THE CONCENTRATION</b>   | <b>3</b>  |
| Select one Studio Art course approved by an academic advisor   |           |
| <b>CAPSTONE</b>  | <b>3</b>  |
| ART 4020 PROFESSIONAL STUDIO PRACTICES (^)   |           |
| ART 4040 BASA SENIOR ART EXHIBITION (^)  |           |
| BASA students are encouraged to complete a minimum of one minor or second major.   |           |
| <b>ELECTIVES</b>   |           |
| Elective hours as required to reach a total of 120 hours   |           |

## Studio Art, Bachelor of Arts, Studio Art Concentration in Two Dimensional Arts Four Year Plan

### Freshman

| Fall                                 |                                 | Credits   |
|--------------------------------------|---------------------------------|-----------|
| ART 1100                             | FOUNDATION: DRAWING             | 3         |
| ART 1210                             | FOUNDATION: 2-D DESIGN          | 3         |
| ART 2050                             | SURVEY OF WESTERN ART HISTORY I | 3         |
| General Education Course or Elective |                                 | 3         |
| General Education Course or Elective |                                 | 3         |
| <b>Credits</b>                       |                                 | <b>15</b> |

### Spring

|                                      |                                  |           |
|--------------------------------------|----------------------------------|-----------|
| ART 1110                             | FOUNDATION: 3D DESIGN            | 3         |
| ART 1220                             | FOUNDATION: DIGITAL MEDIA        | 3         |
| ART 2060                             | SURVEY OF WESTERN ART HISTORY II | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>15</b> |

### Sophomore

| Fall                                 |                           |           |
|--------------------------------------|---------------------------|-----------|
| ART 2000                             | CORE ONE PORTFOLIO REVIEW | 0         |
| ART 2100                             | LIFE DRAWING I            | 3         |
| ART 3510                             | ELEMENTARY PRINTMAKING    | 3         |
| General Education Course or Elective |                           | 3         |
| General Education Course or Elective |                           | 3         |
| General Education Course or Elective |                           | 3         |
| <b>Credits</b>                       |                           | <b>15</b> |

**Spring**

|                                      |                     |   |
|--------------------------------------|---------------------|---|
| ART 3410                             | ELEMENTARY PAINTING | 3 |
| ART 3610                             | ELEMENTARY CERAMICS | 3 |
| General Education Course or Elective |                     | 3 |
| General Education Course or Elective |                     | 3 |
| General Education Course or Elective |                     | 3 |
| General Education Course or Elective |                     | 1 |

**Credits** **16**

**Junior****Fall**

|                                      |  |   |
|--------------------------------------|--|---|
| ART 3310                             | ELEMENTARY SCULPTURE                                     | 3 |
| ART 4880                             | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |

**Credits** **15**

**Spring**

|                                      |                       |   |
|--------------------------------------|-----------------------|---|
| ART 2110                             | LIFE DRAWING II       | 3 |
| ART 3420                             | INTERMEDIATE PAINTING | 3 |
| General Education Course or Elective |                       | 3 |
| General Education Course or Elective |                       | 3 |
| General Education Course or Elective |                       | 3 |

**Credits** **15**

**Senior****Fall**

|                                      |                 |   |
|--------------------------------------|-----------------|---|
| ART 1810                             | WATERCOLOR I    | 3 |
| ART 3230                             | BOOK STRUCTURES | 3 |
| General Education Course or Elective |                 | 3 |
| General Education Course or Elective |                 | 3 |
| General Education Course or Elective |                 | 2 |

**Credits** **14**

**Spring**

|                                      |                                |   |
|--------------------------------------|--------------------------------|---|
| ART 4410                             | ADVANCED PAINTING <sup>1</sup> | 3 |
| ART 4020                             | PROFESSIONAL STUDIO PRACTICES  | 3 |
| ART 4040                             | BASA SENIOR ART EXHIBITION     | 0 |
| General Education Course or Elective |                                | 3 |
| General Education Course or Elective |                                | 3 |
| General Education Course or Elective |                                | 3 |

**Credits** **15**

**Total Credits** **120**

<sup>1</sup> \*This course is repeatable

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for

the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Studio Art, Bachelor of Fine Arts

The Bachelor of Fine Arts (BFA) in Studio Art requires a minimum of 120 credit hours of course work.

The BFA provides a more extensive, well-rounded, performance-oriented art background which prepares students for a professional life in fine arts and post graduate study. For the BFA, 78 of the required 120 credit hours are ART classes.

To be admitted to the BFA program, students must meet other eligibility requirements (see the unit website (<http://www.unomaha.edu/college-of-communication-fine-arts-and-media/art-and-art-history/undergraduate-programs/bfa-studio-art.php>) or a Art & Art History advisor for details).

## Studio Art, Bachelor of Fine Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |



|   |   |
|---|---|
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>               | <b>6</b>  |
| Cultural Knowledge – 3 hrs.                               |   |
| Civic Knowledge and Engagement – 3 hrs.                   |   |
| <b>MAJOR REQUIREMENTS - 78 Hours Required</b>             |   |
| **Course will satisfy UNO's General Education requirement |   |
| ^Course requires pre-requisite(s)                         |   |
| Minimum of "C" required                                   |   |
| <b>STUDIO CORE I -</b>                                    |   |
| <b>All of the following:</b>                              | <b>12</b>   |
| ART 1100  | FOUNDATION: DRAWING   |
| ART 1110  | FOUNDATION: 3D DESIGN   |
| ART 1210  | FOUNDATION: 2-D DESIGN  |
| ART 1220  | FOUNDATION: DIGITAL MEDIA   |
| ART 2000  | CORE ONE PORTFOLIO REVIEW (^)   |
| <b>STUDIO CORE II -</b>                                   |   |
| <b>Select one of the following</b>                        | <b>3</b>  |
| ART 2100  | LIFE DRAWING I (^)  |
| ART 2910  | OBSERVATIONAL DRAWING FOR SKETCHBOOK (^)                              |
| <b>Select one of the following</b>                        | <b>3</b>  |
| ART 1810  | WATERCOLOR I  |
| ART 3410  | ELEMENTARY PAINTING (^)   |
| ART 3510  | ELEMENTARY PRINTMAKING (^)  |
| ART 3520  | PHOTOGRAPHIC DIGITAL PRINTMAKING (^)                                  |
| <b>Select one of the following</b>                        | <b>3</b>  |
| ART 3310  | ELEMENTARY SCULPTURE (^)  |
| ART 3230  | BOOK STRUCTURES   |
| ART 3610  | ELEMENTARY CERAMICS (^)   |
| ART 3140  | COMPUTER-GENERATED IMAGERY (CGI) I: INTERACTIVE 3D VIRTUAL SPACES (^) |
| <b>Select one of the following</b>                        | <b>3</b>  |
| ART 2920  | ILLUSTRATION 1: INTRODUCTION TO ILLUSTRATION (^)                      |
| ART 3000  | MEDIA ARTS 1 (^)  |
| ART 3130  | GRAPHIC DESIGN 1 (^)  |
| ART 3160  | GAME DESIGN AS ART (^)  |
| <b>ART HISTORY COURSES -</b>                              |   |
| <b>All of the following:</b>                              | <b>9</b>  |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I (**)                                  |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II (**)                                 |
| ART 4920  | ART IN THEORY AND IN PRACTICE SINCE 1900 (^)                          |
| <b>Select One Pre-Modern History course</b>               | <b>3</b>  |
| ART 3700  | INTRODUCTION TO ANCIENT ART (^)                                       |
| ART 3710  | EGYPTIAN ART (^)  |
| ART 3720  | GREEK ART (^)   |
| ART 3730  | ETRUSCAN & ROMAN ART (^)  |
| ART 3860  | WOMEN IN ANCIENT AND MEDIEVAL ART (^)                                 |
| ART 4770  | EARLY MEDIEVAL ART (^)  |
| ART 4780  | LATE MEDIEVAL ART HISTORY (^)   |
| ART 4810  | NORTHERN EUROPEAN RENAISSANCE ART HISTORY (^)                         |
| ART 4830  | ITALIAN RENAISSANCE ART HISTORY (^)                                   |

|  |   |
|--|---|
| ART 4850   | BAROQUE AND ROCOCO ART HISTORY (^)                            |
| <b>Select One Modern Art History course</b>  | <b>3</b>  |
| ART 3780   | HISTORY OF ARCHITECTURE SINCE 1850 (^)                        |
| ART 3800   | HISTORY OF DESIGN (^)   |
| ART 3830   | HISTORY OF PHOTOGRAPHY (^)                                    |
| ART 3870   | GENDER & SEXUALITY IN MODERN ART (^)                          |
| ART 4880   | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) (^)  |
| ART 4890   | MODERN ART II (ART OF EUROPE AND THE AMERICAS, 1918-1968) (^) |
| ART 4900   | CONTEMPORARY ART HISTORY SINCE 1968 (^)                       |
| <b>STUDIO ART ELECTIVES -</b>  |   |
| <b>27</b>  |   |
| Students select three 3000 level courses, three 4000 level courses, and three additional electives from the following courses not previously taken in Core II. |   |
| ART 1810   | WATERCOLOR I  |
| ART 1820   | WATERCOLOR II   |
| ART 2100   | LIFE DRAWING I (^)  |
| ART 2110   | LIFE DRAWING II (^)   |
| ART 3100   | ADVANCED DRAWING I (^)  |
| ART 3110   | ADVANCED DRAWING II (^)                                       |
| ART 3410   | ELEMENTARY PAINTING (^)                                       |
| ART 3420   | INTERMEDIATE PAINTING (^)                                     |
| ART 3510   | ELEMENTARY PRINTMAKING (^)                                    |
| ART 3520   | PHOTOGRAPHIC DIGITAL PRINTMAKING (^)                          |
| ART 3910   | INTERMEDIATE PRINTMAKING (^)                                  |
| ART 4410   | ADVANCED PAINTING (^)   |
| ART 4510   | ADVANCED TECHNIQUES IN PRINTMAKING (^)                        |
| ART 3200   | LETTERPRESS 1   |
| ART 3220   | HAND PRODUCED BOOK II: LETTERPRESS PRINTING (^)               |
| ART 3230   | BOOK STRUCTURES   |
| ART 3530   | PAPERMAKING (^)   |
| ART 3310   | ELEMENTARY SCULPTURE (^)                                      |
| ART 3320   | INTERMEDIATE SCULPTURE (^)                                    |
| ART 3330   | ART IN PUBLIC PLACES (^)                                      |
| ART 3610   | ELEMENTARY CERAMICS (^)                                       |
| ART 3620   | INTERMEDIATE CERAMICS (^)                                     |
| ART 4310   | ADVANCED SCULPTURE (^)  |
| ART 4610   | ADVANCED CERAMICS (^)   |
| ART 2910   | OBSERVATIONAL DRAWING FOR SKETCHBOOK (^)                      |
| ART 2920   | ILLUSTRATION 1: INTRODUCTION TO ILLUSTRATION (^)              |
| ART 3920   | ILLUSTRATION 2: THE STATIC IMAGE (^)                          |
| ART 4220   | ILLUSTRATION 3: SEQUENTIAL IMAGES (^)                         |
| ART 4290   | ILLUSTRATION STUDIO (^)                                       |
| ART 2200   | TYPOGRAPHY (^)  |
| ART 2300   | WEB DESIGN (^)  |
| ART 3130   | GRAPHIC DESIGN 1 (^)  |
| ART 4150   | GRAPHIC DESIGN 2 (^)  |
| ART 4160   | GRAPHIC DESIGN 3 (^)  |

|          |  |  |
|----------|--|--|
| ART 4170 | GRAPHIC DESIGN STUDIO (^)  |  |
| ART 3000 | MEDIA ARTS 1 (^)   |  |
| ART 3120 | MEDIA ARTS 2 (^)   |  |
| ART 3140 | COMPUTER-GENERATED IMAGERY (CGI)<br>I: INTERACTIVE 3D VIRTUAL SPACES (^) |  |
| ART 3150 | VIDEO ART (^)  |  |
| ART 3160 | GAME DESIGN AS ART (^)   |  |
| ART 3170 | DIGITAL GAME DESIGN (^)  |  |
| ART 4130 | MEDIA ART III (^)  |  |
| ART 4140 | COMPUTER-GENERATED IMAGERY (CGI)<br>II: 3D MODELING (^)                  |  |
| ART 4180 | ADVANCED DIGITAL GAME DESIGN (^)   |  |
| ART 4190 | GAME DESIGN STUDIO (^)   |  |

**BFA CAPSTONE SEQUENCE -**

|                             |   |           |
|-----------------------------|---|-----------|
| <b>All of the following</b> |   | <b>12</b> |
| ART 4020                    | PROFESSIONAL STUDIO PRACTICES (^)                 |           |
| ART 4320                    | BACHELOR OF FINE ARTS INDEPENDENT<br>STUDY I (^)  |           |
| ART 4330                    | BACHELOR OF FINE ARTS INDEPENDENT<br>STUDY II (^) |           |
| ART 4420                    | BACHELOR OF FINE ARTS THESIS (^)                  |           |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Studio Art, Bachelor of Fine Arts Four Year Plan

**Freshman**

| <b>Fall</b>                   |                                 | <b>Credits</b> |
|-------------------------------|---------------------------------|----------------|
| ART 1100                      | FOUNDATION: DRAWING             | 3              |
| ART 1210                      | FOUNDATION: 2-D DESIGN          | 3              |
| ART 2050                      | SURVEY OF WESTERN ART HISTORY I | 3              |
| GENERAL EDUCATION OR ELECTIVE |                                 | 3              |
| GENERAL EDUCATION OR ELECTIVE |                                 | 3              |

**Credits 15****Spring**

|                               |                                  |   |
|-------------------------------|----------------------------------|---|
| ART 1110                      | FOUNDATION: 3D DESIGN            | 3 |
| ART 1220                      | FOUNDATION: DIGITAL MEDIA        | 3 |
| ART 2060                      | SURVEY OF WESTERN ART HISTORY II | 3 |
| GENERAL EDUCATION OR ELECTIVE |                                  | 3 |
| GENERAL EDUCATION OR ELECTIVE |                                  | 3 |

**Credits 15****Sophomore**

| <b>Fall</b>                   |                           |   |
|-------------------------------|---------------------------|---|
| ART 2000                      | CORE ONE PORTFOLIO REVIEW | 0 |
| ART 2100                      | LIFE DRAWING I            | 3 |
| ART 3410                      | ELEMENTARY PAINTING       | 3 |
| ART 3130                      | GRAPHIC DESIGN 1          | 3 |
| GENERAL EDUCATION OR ELECTIVE |                           | 3 |
| GENERAL EDUCATION OR ELECTIVE |                           | 3 |

**Credits 15****Spring**

|          |                             |   |
|----------|-----------------------------|---|
| ART 3420 | INTERMEDIATE PAINTING       | 3 |
| ART 3610 | ELEMENTARY CERAMICS         | 3 |
| ART 3700 | INTRODUCTION TO ANCIENT ART | 3 |
| ART 3230 | BOOK STRUCTURES             | 3 |

|                               |           |
|-------------------------------|-----------|
| GENERAL EDUCATION OR ELECTIVE | 3         |
| <b>Credits</b>                | <b>15</b> |

**Junior****Fall**

|          |   |   |
|----------|---|---|
| ART 4410 | ADVANCED PAINTING   | 3 |
| ART 3310 | ELEMENTARY SCULPTURE  | 3 |
| ART 3510 | ELEMENTARY PRINTMAKING                                      | 3 |
| ART 4880 | MODERN ART I (ART OF EUROPE AND<br>THE AMERICAS, 1850-1920) | 3 |

|                               |           |
|-------------------------------|-----------|
| GENERAL EDUCATION OR ELECTIVE | 3         |
| <b>Credits</b>                | <b>15</b> |

**Spring**

|                               |  |   |
|-------------------------------|--|---|
| ART 4320                      | BACHELOR OF FINE ARTS INDEPENDENT<br>STUDY I | 3 |
| ART 3100                      | ADVANCED DRAWING I                           | 3 |
| ART 4020                      | PROFESSIONAL STUDIO PRACTICES                | 3 |
| GENERAL EDUCATION OR ELECTIVE |  | 3 |
| GENERAL EDUCATION OR ELECTIVE |  | 3 |

**Credits 15****Senior****Fall**

|                               |   |   |
|-------------------------------|---|---|
| ART 4330                      | BACHELOR OF FINE ARTS INDEPENDENT<br>STUDY II | 3 |
| ART 3000                      | MEDIA ARTS 1                                  | 3 |
| ART 2110                      | LIFE DRAWING II                               | 3 |
| GENERAL EDUCATION OR ELECTIVE |   | 3 |
| GENERAL EDUCATION OR ELECTIVE |   | 3 |

**Credits 15****Spring**

|                               |   |   |
|-------------------------------|---|---|
| ART 4220                      | ILLUSTRATION 3: SEQUENTIAL IMAGES           | 3 |
| ART 4920                      | ART IN THEORY AND IN PRACTICE SINCE<br>1900 | 3 |
| ART 3110                      | ADVANCED DRAWING II                         | 3 |
| GENERAL EDUCATION OR ELECTIVE |   | 3 |
| GENERAL EDUCATION OR ELECTIVE |   | 3 |

**Credits 15****Total Credits 120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

# Studio Art Minor

## Studio Art Minor Requirements

| Code   | Title                     | Credits   |
|--|---------------------------|-----------|
| <b>Studio Core Classes</b>   |                           | <b>6</b>  |
| Select two of the following courses:   |                           |           |
| ART 1100   | FOUNDATION: DRAWING       |           |
| ART 1110   | FOUNDATION: 3D DESIGN     |           |
| ART 1210   | FOUNDATION: 2-D DESIGN    |           |
| ART 1220   | FOUNDATION: DIGITAL MEDIA |           |
| <b>Upper Level Studio Classes</b>  |                           |           |
| <b>Select four (4) courses from the following list of concentrations. Students are responsible for pre-requisites:</b> |                           | <b>12</b> |
| Two Dimensional Arts   |                           |           |
| Three Dimensional Arts   |                           |           |
| Graphic Design   |                           |           |
| Media Arts   |                           |           |
| Illustration   |                           |           |

## Art Education Concentration, Bachelor of Arts in Studio Art

Students in the Art Education concentration will also receive K-12 Art certification. This option gives students the opportunity to teach K-12 art or the capacity to pursue graduate level work in an M.A. or M.Ed. program in art education. The Bachelor of Arts in Studio Art with a concentration in Art Education is a 120 credit hour program of which 57 are in ART and 30 are from the College of Education, Health and Human Sciences.

## Art Education Concentration, Bachelor of Arts in Studio Art

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

|   |   |           |
|---|---|-----------|
| <b>Breadth of Knowledge</b>                                     |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.       |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>                     |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.                                     |   |           |
| Civic Knowledge and Engagement – 3 hrs.                         |   |           |
| <b>MAJOR REQUIREMENTS - 87 Hours Required</b>                   |   |           |
| **Course will satisfy UNO's General Education requirement       |   |           |
| ^Course requires pre-requisite(s)                               |   |           |
| Minimum of “C” required   |   |           |
| <b>STUDIO CORE I</b>  |   |           |
| <b>All of the following</b>                                     |   | <b>12</b> |
| ART 1100  | FOUNDATION: DRAWING   |           |
| ART 1110  | FOUNDATION: 3D DESIGN   |           |
| ART 1210  | FOUNDATION: 2-D DESIGN  |           |
| ART 1220  | FOUNDATION: DIGITAL MEDIA                                     |           |
| ART 2000  | CORE ONE PORTFOLIO REVIEW (^)                                 |           |
| <b>STUDIO CORE II</b>   |   |           |
| <b>All of the following</b>                                     |   | <b>6</b>  |
| ART 3410  | ELEMENTARY PAINTING (^)                                       |           |
| ART 3610  | ELEMENTARY CERAMICS (^)                                       |           |
| <b>Choose one of the following:</b>                             |   | <b>3</b>  |
| ART 1810  | WATERCOLOR I  |           |
| ART 2100  | LIFE DRAWING I (^)  |           |
| ART 2910  | OBSERVATIONAL DRAWING FOR SKETCHBOOK (^)                      |           |
| ART 2920  | ILLUSTRATION 1: INTRODUCTION TO ILLUSTRATION (^)              |           |
| <b>Choose one of the following:</b>                             |   |           |
| ART 3310  | ELEMENTARY SCULPTURE (^)                                      |           |
| ART 3230  | BOOK STRUCTURES   |           |
| ART 3510  | ELEMENTARY PRINTMAKING (^)                                    |           |
| <b>ART HISTORY CORE - 12 Hours Required</b>                     |   |           |
| <b>All of the following:</b>                                    |   | <b>6</b>  |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I (**)                          |           |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II (**)                         |           |
| <b>Select a Modern or Contemporary Course</b>                   |   | <b>3</b>  |
| ART 4890  | MODERN ART II (ART OF EUROPE AND THE AMERICAS, 1918-1968) (^) |           |
| ART 4900  | CONTEMPORARY ART HISTORY SINCE 1968 (^)                       |           |
| <b>Select One Art History Course - Must be advisor approved</b> |   |           |
| ART 1040  | GLOBAL INDIGENOUS ART (**)                                    |           |
| ART 2070  | ART OF INDIA AND SOUTHEAST ASIA (^)                           |           |
| ART 2080  | ART OF CHINA AND JAPAN (^)                                    |           |
| ART 3750  | AMERICAN ART (^)  |           |
| ART 3760  | RESEARCH, WRITING, AND COMMUNICATION FOR CAREERS IN ART (^)   |           |
| ART 3770  | HISTORY OF ARCHITECTURE TO 1850 (^)                           |           |

|          |   |
|----------|---|
| ART 3780 | HISTORY OF ARCHITECTURE SINCE 1850 (^)                        |
| ART 3700 | INTRODUCTION TO ANCIENT ART (^)                               |
| ART 4730 | CLASSICAL ART HISTORY (^)                                     |
| ART 4750 | LATE ROMAN AND BYZANTINE ART HISTORY (^)                      |
| ART 4770 | EARLY MEDIEVAL ART (^)  |
| ART 4780 | LATE MEDIEVAL ART HISTORY (^)                                 |
| ART 4810 | NORTHERN EUROPEAN RENAISSANCE ART HISTORY (^)                 |
| ART 4830 | ITALIAN RENAISSANCE ART HISTORY (^)                           |
| ART 4850 | BAROQUE AND ROCOCO ART HISTORY (^)                            |
| ART 3870 | GENDER & SEXUALITY IN MODERN ART (^)                          |
| ART 4880 | MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) (^)  |
| ART 4890 | MODERN ART II (ART OF EUROPE AND THE AMERICAS, 1918-1968) (^) |
| ART 4900 | CONTEMPORARY ART HISTORY SINCE 1968 (^)                       |
| ART 4910 | INDEPENDENT STUDY IN ART HISTORY (^)                          |
| ART 4920 | ART IN THEORY AND IN PRACTICE SINCE 1900 (^)                  |
| ART 4930 | SPECIAL TOPICS IN ART HISTORY (^)                             |
| ART 4940 | ART HISTORY METHODS (^)                                       |

**ART EDUCATION REQUIREMENTS****All of the following:** **12**

|          |                                      |
|----------|--------------------------------------|
| ART 3300 | ELEMENTARY ART METHODS (^)           |
| ART 3370 | TECHNOLOGY IN ARTS EDUCATION (^)     |
| ART 4300 | SECONDARY ART METHODS (^)            |
| ART 4350 | TRENDING TOPICS IN ART EDUCATION (^) |

**STUDIO ART EMPHASIS - Select two Studio Art Courses** **6**  
**- Must be advisor approved - Must include Intermediate and Advanced Courses**

|          |   |
|----------|---|
| ART 1820 | WATERCOLOR II (^)   |
| ART 2110 | LIFE DRAWING II (^)   |
| ART 2300 | WEB DESIGN (^)  |
| ART 3000 | MEDIA ARTS 1 (^)  |
| ART 3100 | ADVANCED DRAWING I (^)  |
| ART 3110 | ADVANCED DRAWING II (^)   |
| ART 3120 | MEDIA ARTS 2 (^)  |
| ART 3130 | GRAPHIC DESIGN 1 (^)  |
| ART 3140 | COMPUTER-GENERATED IMAGERY (CGI) I: INTERACTIVE 3D VIRTUAL SPACES (^) |
| ART 3160 | GAME DESIGN AS ART  |
| ART 3170 | DIGITAL GAME DESIGN (^)   |
| ART 3200 | LETTERPRESS 1   |
| ART 3210 | COLOR THEORY (^)  |
| ART 3220 | HAND PRODUCED BOOK II: LETTERPRESS PRINTING (^)                       |
| ART 3230 | BOOK STRUCTURES   |
| ART 3320 | INTERMEDIATE SCULPTURE (^)  |
| ART 3360 | APPLIED ART & DESIGN (^)  |
| ART 3420 | INTERMEDIATE PAINTING (^)   |
| ART 3520 | PHOTOGRAPHIC DIGITAL PRINTMAKING (^)                                  |

|          |  |
|----------|--|
| ART 3620 | INTERMEDIATE CERAMICS (^)                            |
| ART 3910 | INTERMEDIATE PRINTMAKING (^)                         |
| ART 4140 | COMPUTER-GENERATED IMAGERY (CGI) II: 3D MODELING (^) |
| ART 4150 | GRAPHIC DESIGN 2 (^)                                 |
| ART 4180 | ADVANCED DIGITAL GAME DESIGN (^)                     |
| ART 4310 | ADVANCED SCULPTURE (^)                               |
| ART 4410 | ADVANCED PAINTING (^)                                |
| ART 4510 | ADVANCED TECHNIQUES IN PRINTMAKING (^)               |
| ART 4610 | ADVANCED CERAMICS (^)                                |

**COLLEGE OF EDUCATION HEALTH & HUMAN SERVICES REQUIREMENTS****All of the following:** **30**

|                         |  |
|-------------------------|--|
| TED 2100                | EDUCATIONAL FOUNDATIONS (^)  |
| TED 2200                | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                          |
| TED 2300<br>or TED 2380 | HUMAN GROWTH AND LEARNING (^)<br>DEVELOPMENT AND LEARNING IN ADOLESCENCE |
| TED 2400                | PLANNING FOR EFFECTIVE TEACHING (^)                                      |
| SPED 3800               | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                              |
| TED 4640                | K-12 CLINICAL PRACTICE AND SEMINAR ELEMENTARY/SECONDARY (^)              |

**Capstone** **3**

|          |                                   |
|----------|-----------------------------------|
| ART 4020 | PROFESSIONAL STUDIO PRACTICES (^) |
| ART 4040 | BASA SENIOR ART EXHIBITION (^)    |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Art Education Concentration, Bachelor of Arts in Studio Art - Four-Year Plan

**Freshman**

| <b>Fall</b>                          |                                 | <b>Credits</b> |
|--------------------------------------|---------------------------------|----------------|
| ART 1100                             | FOUNDATION: DRAWING             | 3              |
| ART 1210                             | FOUNDATION: 2-D DESIGN          | 3              |
| ART 2050                             | SURVEY OF WESTERN ART HISTORY I | 3              |
| General Education Course or Elective |                                 | 3              |
| General Education Course or Elective |                                 | 3              |

**Credits** **15****Spring**

|                                      |                                  |   |
|--------------------------------------|----------------------------------|---|
| ART 1110                             | FOUNDATION: 3D DESIGN            | 3 |
| ART 1220                             | FOUNDATION: DIGITAL MEDIA        | 3 |
| ART 2060                             | SURVEY OF WESTERN ART HISTORY II | 3 |
| General Education Course or Elective |                                  | 3 |
| General Education Course or Elective |                                  | 3 |

**Credits** **15****Sophomore**

| <b>Fall</b>                          |                           |   |
|--------------------------------------|---------------------------|---|
| ART 2000                             | CORE ONE PORTFOLIO REVIEW | 0 |
| ART 2100                             | LIFE DRAWING I            | 3 |
| ART 3510                             | ELEMENTARY PRINTMAKING    | 3 |
| TED 2100                             | EDUCATIONAL FOUNDATIONS   | 3 |
| General Education Course or Elective |                           | 3 |

|                                      |   |            |
|--------------------------------------|---|------------|
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| ART 3410                             | ELEMENTARY PAINTING   | 3          |
| ART 3610                             | ELEMENTARY CERAMICS   | 3          |
| ART 4830                             | ITALIAN RENAISSANCE ART HISTORY   | 3          |
| TED 2200                             | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS                                | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Junior</b>                        |   |            |
| <b>Fall</b>                          |   |            |
| ART 3420                             | INTERMEDIATE PAINTING   | 3          |
| TED 2380<br>or TED 2300              | DEVELOPMENT AND LEARNING IN ADOLESCENCE<br>or HUMAN GROWTH AND LEARNING | 3          |
| TED 2400                             | PLANNING FOR EFFECTIVE TEACHING   | 6          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| ART 4300                             | SECONDARY ART METHODS   | 3          |
| SPED 3800                            | DIFFERENTIATION AND INCLUSIVE PRACTICES                                 | 3          |
| ART 4900                             | CONTEMPORARY ART HISTORY SINCE 1968                                     | 3          |
| ART 4350                             | TRENDING TOPICS IN ART EDUCATION  | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Summer</b>                        |   |            |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>3</b>   |
| <b>Senior</b>                        |   |            |
| <b>Fall</b>                          |   |            |
| ART 3300                             | ELEMENTARY ART METHODS  | 3          |
| ART 3370                             | TECHNOLOGY IN ARTS EDUCATION  | 3          |
| ART 4410                             | ADVANCED PAINTING   | 3          |
| ART 4020                             | PROFESSIONAL STUDIO PRACTICES   | 3          |
| ART 4040                             | BASA SENIOR ART EXHIBITION  | 0          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| TED 4640                             | K-12 CLINICAL PRACTICE AND SEMINAR ELEMENTARY/SECONDARY                 | 12         |
| <b>Credits</b>                       |   | <b>12</b>  |
| <b>Total Credits</b>                 |   | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

\* For a comprehensive list of elective courses please consult your advisor.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study  
Students in the BASA w/ PK-12 Certification program must complete the Praxis Core Academic Skills test by the completion of TED 2400. Prior to the completion of Clinical Practice students must successfully complete the Praxis II Art Content Knowledge exam. More information on both exams can be found at <https://www.unomaha.edu/college-of-education-health-and-human-sciences/student-services/academics/required-exams.php>

**GPA Requirements:** BASA w/ PK-12 students must have at least a 2.5 GPA at the time of applying for the Pre-Professional Education Core classes (TED 2100 and TED 2200). By the time students formally apply to the College of Education, Health, and Human Sciences (TED 2300 and TED 2400) student GPA must be 2.75.

**Graduation Requirements:** Should students unsuccessfully complete their Clinical Practice or choose to not move forward with the PK-12 Art Certification, students may still graduate with a BASA degree.

## Theatre

Theatre coursework is designed to provide students with well-rounded experiences encompassing the varied components that work together to create the theatrical experience. These areas include performance (acting/directing/musical theatre), production design (scenic, costume, lighting, sound), box office, publicity, house management, dramaturgy, stage management, and much more. Above all, we're committed to each student's individual development toward artistic and cultural maturity and growth that cultivates global diversity and service to our community. Through in-class and production work, students gain valuable life skills including discipline, collaboration, communication, project management, research, planning, achieving deadlines, and problem-solving.

The unit's mission is to ignite in the student, teacher, and community: critical thinking, compassionate feeling, collaborative vision, and the capacity to delight.

## Other Information

The general areas of study in theatre are acting, directing, musical theatre, dramatic literature, theatre history and criticism, and design/production including stagecraft, stage lighting, scene design, costume, and makeup. Beyond the general theatre core, students may pursue a concentration in a specialized area such as acting, musical theatre, design, production, technology, stage management, or theatre scholarship.

Theatre majors are required to participate actively and consistently in productions sponsored by the department. The department stages a minimum of four major productions per academic year. These productions encompass the breadth and vitality of live theatre, from musicals to classics to new plays. A variety of production opportunities are also offered in the Studio theatre space.

Contact Information

For more information contact Theatre at 402.554.2406

Website (<http://www.unomaha.edu/college-of-communication-fine-arts-and-media/theatre/>)

Degrees Offered

- Theatre, Bachelor of Arts (p. 493)

Minors Offered

- Arts Entrepreneurship Minor (p. 502)
- Theatre Minor (p. 503)
- Musical Theatre Minor (p. 503)

Theatre, Bachelor of Arts

The Bachelor of Arts in Theatre degree program delivers a holistic understanding of theatrical artistry, instilling foundational competencies essential for wide-ranging roles in production, including performance, design, directing, producing, box office management, publicity, and more. Our curriculum strikes a balance between traditional academic coursework and hands-on training, ensuring students receive a comprehensive education. At the heart of our program lies a commitment to nurturing each student's artistic and cultural development. By blending a broad-based liberal arts foundation with focused professional training, the BA in Theatre equips students with the skills and knowledge needed to excel in the field.

Students may elect to pursue either a General Major or a concentration in **Acting/Directing, Musical Theatre, Stage Management, Design, or Technology**. Students pursuing a concentration are required to participate in formal juries each semester to receive faculty feedback and evaluation of their progress in the program.

Learn more about the BA in Theatre, here (p. 493).

Theatre, Bachelor of Arts in Theatre Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>         |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>                                |   |           |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>                             |   |           |
| MATH 1120<br><br>or MATH 1130<br>or MATH 1140<br><br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>                                     |   |           |
| Select one from the following:                                    |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

|   |  |           |
|---|--|-----------|
| <b>Breadth of Knowledge</b>                               |  | <b>13</b> |
| Social Science – 3 hrs.                                   |  |           |
| Humanities – 3 hrs.                                       |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs. |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>               |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.                               |  |           |
| Civic Knowledge and Engagement – 3 hrs.                   |  |           |
| <b>MAJOR REQUIREMENTS - 65 Hours Required</b>             |  |           |
| **Course will satisfy UNO's General Education requirement |  |           |
| ^Course requires pre-requisite(s)                         |  |           |
| Minimum of "C" required                                   |  |           |
| <b>All of the following</b>                               |  | <b>29</b> |
| THEA 1000   | THEATRE PRACTICUM (1 credit hour course- 4 credit hours required)      |           |
| THEA 1300   | ACTING I (**)  |           |
| THEA 1500   | FOUNDATIONS OF PRODUCTION DESIGN                                       |           |
| THEA 1700   | SCRIPT ANALYSIS  |           |
| THEA 2000   | THEATRE PRACTICUM II (^ 2 credit hour course- 4 credit hours required) |           |
| THEA 4050   | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (^)                     |           |
| THEA 3400   | DIRECTING I (^)  |           |
| THEA 4780   | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)                  |           |
| THEA 4900   | ADVANCED PROJECTS - CAPSTONE (^)                                       |           |
| <b>Select two of the following</b>                        |  | <b>6</b>  |
| THEA 1600   | FOUNDATIONS OF SCENIC PRODUCTION                                       |           |
| THEA 1650   | STAGE COSTUME (^)  |           |
| THEA 1660   | STAGE MAKEUP   |           |
| THEA 3660   | STAGE AND TV LIGHTING (^)  |           |
| <b>Select two of the following</b>                        |  | <b>6</b>  |
| THEA 3700   | THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)                       |           |
| THEA 3710   | THEATRE HISTORY AND LITERATURE:MODERN / 1800-1960 (^)                  |           |
| THEA 3720   | THEATRE AND SOCIAL JUSTICE   |           |
| THEA 4790   | THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^)              |           |
| <b>General Theatre</b>                                    |  |           |
| <b>Select 8 from the following</b>                        |  | <b>24</b> |
| THEA 1050   | FILM HISTORY AND APPRECIATION (**)                                     |           |
| THEA 1060   | HISTORY OF THE BROADWAY MUSICAL (**)                                   |           |
| THEA 1200   | SINGING TECHNIQUE FOR ACTORS   |           |
| THEA 1600   | FOUNDATIONS OF SCENIC PRODUCTION                                       |           |
| THEA 1650   | STAGE COSTUME (^)  |           |
| THEA 1660   | STAGE MAKEUP   |           |
| THEA 2020   | THEATRE FOR YOUNG AUDIENCES (^)  |           |
| THEA 2030   | INTERNSHIP I (^)   |           |
| THEA 2050   | THE FILMS OF ALFRED HITCHCOCK  |           |
| THEA 2300   | MOVEMENT FOR THE ACTOR (^)   |           |
| THEA 2400   | STAGE MANAGEMENT (^)   |           |



|           |  |
|-----------|--|
| THEA 2500 | DRAWING FOR THE THEATRE (^)                              |
| THEA 3000 | SPECIAL TOPICS IN THEATRE                                |
| THEA 3200 | MUSICAL THEATRE ENSEMBLE                                 |
| THEA 3230 | AMERICAN MUSICAL THEATRE<br>REPERTOIRE HISTORY           |
| THEA 3260 | MUSICAL THEATRE AND OPERA<br>WORKSHOP                    |
| THEA 3300 | ACTING II (^)  |
| THEA 3310 | VOICE FOR THE ACTOR                                      |
| THEA 3410 | HUMAN DYNAMICS IN THE ARTS (^)                           |
| THEA 3420 | GLOBAL CITIZENSHIP IN THE ARTS (^)                       |
| THEA 3500 | COLLABORATIVE DESIGN STUDIES (^)                         |
| THEA 3660 | STAGE AND TV LIGHTING (^)                                |
| THEA 3700 | THEATRE HISTORY AND LITERATURE:<br>1960-PRESENT (^)      |
| THEA 3710 | THEATRE HISTORY AND<br>LITERATURE:MODERN / 1800-1960 (^) |
| THEA 3750 | THEATRE AND SOCIAL JUSTICE                               |
| THEA 3770 | THEATRE HISTORY AND LITERATURE:<br>CONTEMPORARY          |
| THEA 4000 | SUMMER THEATRE WORKSHOP                                  |
| THEA 4020 | ADVANCED PROJECTS IN THEATRE (^)                         |
| THEA 4030 | INTERNSHIP II (^)  |
| THEA 4310 | ADVANCED ACTING: POST REALISM (^)                        |
| THEA 4320 | ADVANCED ACTING: GREEKS TO<br>RESTORATION (^)            |
| THEA 4330 | ADVANCED ACTING: ENSEMBLE PLAY<br>PRODUCTION (^)         |
| THEA 4340 | ADVANCED ACTING: AUDITIONING (^)                         |
| THEA 4410 | MISSION AND STRATEGY IN ARTS<br>ORGANIZATIONS (^)        |
| THEA 4440 | DIRECTING II (^)   |
| THEA 4500 | CHALLENGES IN PRODUCTION DESIGN<br>(^)                   |
| THEA 4550 | PERIOD STYLES IN DRESS AND DECOR<br>(^)                  |

ELECTIVES

Elective hours as required to reach a total of 120 hours

Theatre, Bachelor of Arts Concentrations

- Acting/Directing (p. 495)
- Design (p. 496)
- Musical Theatre (p. 498)
- Stage Management (p. 499)
- Technical Theatre (p. 501)

Theatre, Bachelor of Arts in Theatre Four Year Plan

Freshman

|                                      |                                     |         |
|--------------------------------------|-------------------------------------|---------|
| Fall                                 |                                     | Credits |
| THEA 1000                            | THEATRE PRACTICUM                   | 1       |
| THEA 1300                            | ACTING I                            | 3       |
| THEA 1500                            | FOUNDATIONS OF PRODUCTION<br>DESIGN | 3       |
| ENGL 1150                            | ENGLISH COMPOSITION I               | 3       |
| General Education Course or Elective |                                     | 3       |

|                                      |   |    |
|--------------------------------------|---|----|
| General Education Course or Elective |   | 3  |
| Credits                              |   | 16 |
| Spring                               |   |    |
| THEA 1000                            | THEATRE PRACTICUM   | 1  |
| THEA 1700                            | SCRIPT ANALYSIS   | 3  |
| THEA 1600<br>or THEA 3660            | FOUNDATIONS OF SCENIC<br>PRODUCTION<br>or STAGE AND TV LIGHTING                       | 3  |
| ENGL 1160                            | COLLEGE RESEARCH AND<br>INFORMATION LITERACY  | 3  |
| General Education Course or Elective |   | 3  |
| General Education Course or Elective |   | 3  |
| Credits                              |   | 16 |
| Sophomore                            |   |    |
| Fall                                 |   |    |
| THEA 1000                            | THEATRE PRACTICUM   | 1  |
| THEA 1650                            | STAGE COSTUME   | 3  |
| THEA 4780                            | THEATRE HISTORY AND LITERATURE:<br>CLASSICAL TO 1500                                  | 3  |
| General Education Course or Elective |   | 3  |
| General Education Course or Elective |   | 3  |
| Credits                              |   | 13 |
| Spring                               |   |    |
| THEA 1000                            | THEATRE PRACTICUM   | 1  |
| Theatre Elective                     |   | 3  |
| Theatre Elective                     |   | 3  |
| THEA 3750                            | THEATRE AND SOCIAL JUSTICE  | 3  |
| General Education Course or Elective |   | 3  |
| General Education Course or Elective |   | 3  |
| Credits                              |   | 16 |
| Junior                               |   |    |
| Fall                                 |   |    |
| THEA 2000                            | THEATRE PRACTICUM II  | 2  |
| THEA 3400                            | DIRECTING I   | 3  |
| Theatre Elective                     |   | 3  |
| General Education Course or Elective |   | 3  |
| General Education Course or Elective |   | 3  |
| Credits                              |   | 14 |
| Spring                               |   |    |
| THEA 2000                            | THEATRE PRACTICUM II  | 2  |
| THEA 4050                            | SHAKESPEARE ON FILM: THE ART OF<br>INTERPRETATION                                     | 3  |
| Theatre Elective                     |   | 3  |
| General Education Course or Elective |   | 3  |
| General Education Course or Elective |   | 4  |
| Credits                              |   | 15 |
| Senior                               |   |    |
| Fall                                 |   |    |
| THEA 4900                            | ADVANCED PROJECTS - CAPSTONE  | 3  |
| Theatre Elective                     |   | 3  |
| THEA 3760<br>or THEA 3750            | THEATRE HISTORY AND<br>LITERATURE:MODERN / 1850-2000<br>or THEATRE AND SOCIAL JUSTICE | 3  |
| Elective                             |   | 3  |
| Elective                             |   | 3  |
| Credits                              |   | 15 |

**Spring**

|                                      |            |
|--------------------------------------|------------|
| Theatre Elective                     | 3          |
| Theatre Elective                     | 3          |
| Theatre Elective                     | 3          |
| Elective                             | 3          |
| General Education Course or Elective | 3          |
| <b>Credits</b>                       | <b>15</b>  |
| <b>Total Credits</b>                 | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and the curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, and Foreign Languages, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change the suggested plan of study

# Acting/Directing Concentration

## Theatre, Bachelor of Arts in Theatre - Acting/Directing Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge****13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility****6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 65 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of "C" required

**All of the following****29**

THEA 1000 THEATRE PRACTICUM (1 credit hour course - 4 credit hours required)

THEA 1300 ACTING I (\*\*)

THEA 1500 FOUNDATIONS OF PRODUCTION DESIGN

THEA 1700 SCRIPT ANALYSIS

THEA 2000 THEATRE PRACTICUM II (^ 2 credit hour course - 4 credit hours required)

THEA 4050 SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (^)

THEA 3400 DIRECTING I (^)

THEA 4780 THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)

THEA 4900 ADVANCED PROJECTS - CAPSTONE (^)

**Select two of the following****6**

THEA 1600 FOUNDATIONS OF SCENIC PRODUCTION

THEA 1650 STAGE COSTUME (^)

THEA 1660 STAGE MAKEUP

THEA 3660 STAGE AND TV LIGHTING (^)

**Select two of the following****6**

THEA 3700 THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)

THEA 3710 THEATRE HISTORY AND LITERATURE: MODERN / 1800-1960 (^)

THEA 3720 THEATRE AND SOCIAL JUSTICE

THEA 4790 THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^)

**Concentration in Acting/Directing****All of the following****12**

THEA 3310 VOICE FOR THE ACTOR (^)

THEA 2300 MOVEMENT FOR THE ACTOR (^)

THEA 3300 ACTING II (^)

THEA 4340 ADVANCED ACTING: AUDITIONING (^)

**Select four of the following****12**

THEA 4310 ADVANCED ACTING: POST REALISM (^)

THEA 4320 ADVANCED ACTING: GREEKS TO RESTORATION (^)

|           |   |
|-----------|---|
| THEA 4330 | ADVANCED ACTING: ENSEMBLE PLAY PRODUCTION (^)       |
| THEA 3010 | ADVANCED PROJECTS IN THEATRE: INDEPENDENT STUDY (^) |
| THEA 4020 | ADVANCED PROJECTS IN THEATRE (^)                    |
| THEA 4440 | DIRECTING II (^)                                    |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Theatre, Bachelor of Arts in Theatre - Acting/Directing Concentration Four Year Plan

**Freshman**

| <b>Fall</b>                          |                                  | <b>Credits</b> |
|--------------------------------------|----------------------------------|----------------|
| THEA 1000                            | THEATRE PRACTICUM                | 1              |
| THEA 1300                            | ACTING I                         | 3              |
| THEA 1500                            | FOUNDATIONS OF PRODUCTION DESIGN | 3              |
| ENGL 1150                            | ENGLISH COMPOSITION I            | 3              |
| General Education Course or Elective |                                  | 3              |
| <b>Credits</b>                       |                                  | <b>13</b>      |

**Spring**

|                                      |  |           |
|--------------------------------------|--|-----------|
| THEA 1000                            | THEATRE PRACTICUM  | 1         |
| THEA 2300                            | MOVEMENT FOR THE ACTOR                                       | 3         |
| THEA 1700                            | SCRIPT ANALYSIS  | 3         |
| THEA 1600<br>or THEA 3660            | FOUNDATIONS OF SCENIC PRODUCTION<br>or STAGE AND TV LIGHTING | 3         |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                    | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>16</b> |

**Sophomore**

| <b>Fall</b>                          |   |           |
|--------------------------------------|---|-----------|
| THEA 1000                            | THEATRE PRACTICUM                                 | 1         |
| THEA 3310                            | VOICE FOR THE ACTOR                               | 3         |
| THEA 4780                            | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>16</b> |

**Spring**

|                                      |                            |           |
|--------------------------------------|----------------------------|-----------|
| THEA 1000                            | THEATRE PRACTICUM          | 1         |
| THEA 3300                            | ACTING II                  | 3         |
| THEA 3720                            | THEATRE AND SOCIAL JUSTICE | 3         |
| General Education Course or Elective |                            | 3         |
| General Education Course or Elective |                            | 3         |
| General Education Course or Elective |                            | 3         |
| <b>Credits</b>                       |                            | <b>16</b> |

**Junior**

| <b>Fall</b> |                              |   |
|-------------|------------------------------|---|
| THEA 2000   | THEATRE PRACTICUM II         | 2 |
| THEA 1650   | STAGE COSTUME                | 3 |
| THEA 3400   | DIRECTING I                  | 3 |
| THEA 4340   | ADVANCED ACTING: AUDITIONING | 3 |

|                                      |   |
|--------------------------------------|---|
| General Education Course or Elective | 3 |
| General Education Course or Elective | 3 |

**Credits 17****Spring**

|                                      |  |   |
|--------------------------------------|--|---|
| THEA 2000                            | THEATRE PRACTICUM II                           | 2 |
| THEA 4050                            | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION | 3 |
| Theatre Concentration Elective 1     |  | 3 |
| THEA 3700                            | THEATRE HISTORY AND LITERATURE: 1960-PRESENT   | 3 |
| General Education Course or Elective |  | 4 |

**Credits 15****Senior**

| <b>Fall</b>                      |  |   |
|----------------------------------|--|---|
| Theatre Concentration Elective 2 |  | 3 |
| Theatre Concentration Elective 3 |  | 3 |
| Elective                         |  | 3 |
| Elective                         |  | 3 |
| Elective                         |  | 3 |

**Credits 15****Spring**

|                                  |                              |   |
|----------------------------------|------------------------------|---|
| THEA 4900                        | ADVANCED PROJECTS - CAPSTONE | 3 |
| Theatre Concentration Elective 4 |                              | 3 |
| Elective                         |                              | 3 |
| Elective                         |                              | 3 |

**Credits 12****Total Credits 120**

## Design Concentration

### Theatre, Bachelor of Arts in Theatre - Design Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### **MAJOR REQUIREMENTS - 65 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of "C" required

### **All of the following 29**

THEA 1000 THEATRE PRACTICUM (1 credit hour course - 4 credit hours required)

THEA 1300 ACTING I (\*\*)

THEA 1500 FOUNDATIONS OF PRODUCTION DESIGN

THEA 1700 SCRIPT ANALYSIS

THEA 2000 THEATRE PRACTICUM II (^ 2 credit hour course - 4 credit hours required)

THEA 4050 SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (^)

THEA 3400 DIRECTING I (^)

THEA 4780 THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)

THEA 4900 ADVANCED PROJECTS - CAPSTONE (^)

### **Select two of the following 6**

THEA 1600 FOUNDATIONS OF SCENIC PRODUCTION

THEA 1650 STAGE COSTUME (^)

THEA 1660 STAGE MAKEUP

THEA 3660 STAGE AND TV LIGHTING (^)

### **Select two of the following 6**

THEA 3700 THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)

THEA 3710 THEATRE HISTORY AND LITERATURE: MODERN / 1800-1960 (^)

THEA 3720 THEATRE AND SOCIAL JUSTICE

THEA 4790 THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^)

### **Concentration in Design**

### **All of the following 12**

THEA 2500 DRAWING FOR THE THEATRE (^)

THEA 3500 COLLABORATIVE DESIGN STUDIES (^)

THEA 4500 CHALLENGES IN PRODUCTION DESIGN (^)

THEA 4550 PERIOD STYLES IN DRESS AND DECOR (^)

### **Select three of the following 9**

THEA 3000 SPECIAL TOPICS IN THEATRE

THEA 3410 HUMAN DYNAMICS IN THE ARTS (^)

THEA 3010 ADVANCED PROJECTS IN THEATRE: INDEPENDENT STUDY (^)

THEA 4020 ADVANCED PROJECTS IN THEATRE (^)

### **Select 3 credit hours outside of the department 3**

advisor approval- related to concentration

### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

## **Theatre, Bachelor of Arts in Theatre - Design Concentration Four Year Plan**

### **Freshman**

|                                      |                                  | <b>Credits</b> |
|--------------------------------------|----------------------------------|----------------|
| <b>Fall</b>                          |                                  |                |
| THEA 1000                            | THEATRE PRACTICUM                | 1              |
| THEA 1500                            | FOUNDATIONS OF PRODUCTION DESIGN | 3              |
| ENGL 1150                            | ENGLISH COMPOSITION I            | 3              |
| General Education Course or Elective |                                  | 3              |
| General Education Course or Elective |                                  | 3              |
| <b>Credits</b>                       |                                  | <b>13</b>      |

### **Spring**

|                                      |  |           |
|--------------------------------------|--|-----------|
| THEA 1000                            | THEATRE PRACTICUM  | 1         |
| THEA 1700                            | SCRIPT ANALYSIS  | 3         |
| THEA 1600<br>or THEA 3660            | FOUNDATIONS OF SCENIC PRODUCTION<br>or STAGE AND TV LIGHTING | 3         |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                    | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>16</b> |

### **Sophomore**

|                                      |   |           |
|--------------------------------------|---|-----------|
| <b>Fall</b>                          |   |           |
| THEA 1000                            | THEATRE PRACTICUM                                 | 1         |
| THEA 1300                            | ACTING I  | 3         |
| THEA 1650                            | STAGE COSTUME                                     | 3         |
| THEA 4780                            | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>16</b> |

### **Spring**

|                                      |                              |           |
|--------------------------------------|------------------------------|-----------|
| THEA 1000                            | THEATRE PRACTICUM            | 1         |
| Theatre Concentration Elective       |                              | 3         |
| THEA 3500                            | COLLABORATIVE DESIGN STUDIES | 3         |
| THEA 3720                            | THEATRE AND SOCIAL JUSTICE   | 3         |
| General Education Course or Elective |                              | 3         |
| General Education/Theatre Elective   |                              | 3         |
| <b>Credits</b>                       |                              | <b>16</b> |

### **Junior**

|                                      |                                  |           |
|--------------------------------------|----------------------------------|-----------|
| <b>Fall</b>                          |                                  |           |
| THEA 2000                            | THEATRE PRACTICUM II             | 2         |
| THEA 2500                            | DRAWING FOR THE THEATRE          | 3         |
| THEA 4550                            | PERIOD STYLES IN DRESS AND DECOR | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>17</b> |

### **Spring**

|           |                      |   |
|-----------|----------------------|---|
| THEA 2000 | THEATRE PRACTICUM II | 2 |
|-----------|----------------------|---|

|  |  |            |
|--|--|------------|
| THEA 4050                              | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION | 3          |
| THEA 4500                              | CHALLENGES IN PRODUCTION DESIGN                | 3          |
| General Education Course or Elective   |  | 3          |
| General Education Course or Elective   |  | 4          |
| <b>Credits</b>                         |  | <b>15</b>  |
| <b>Senior</b>                          |  |            |
| <b>Fall</b>                            |  |            |
| THEA 3400                              | DIRECTING I                                    | 3          |
| THEA 3700                              | THEATRE HISTORY AND LITERATURE: 1960-PRESENT   | 3          |
| THEA 4900                              | ADVANCED PROJECTS - CAPSTONE                   | 3          |
| Elective (outside department elective) |  | 3          |
| Elective                               |  | 3          |
| <b>Credits</b>                         |  | <b>15</b>  |
| <b>Spring</b>                          |  |            |
| Theatre Concentration Elective         |  | 3          |
| Theatre Concentration Elective         |  | 3          |
| Elective                               |  | 3          |
| Elective                               |  | 3          |
| <b>Credits</b>                         |  | <b>12</b>  |
| <b>Total Credits</b>                   |  | <b>120</b> |

## Musical Theatre Concentration

### Theatre, Bachelor of Arts in Theatre - Musical Theatre Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |

|   |  |
|---|--|
| Social Science – 3 hrs.                                   |  |
| Humanities – 3 hrs.                                       |  |
| Natural & Physical Science (must complete a lab) – 4 hrs. |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility</b>               | <b>6</b>   |
| Cultural Knowledge – 3 hrs.                               |  |
| Civic Knowledge and Engagement – 3 hrs.                   |  |
| <b>MAJOR REQUIREMENTS - 65 Hours Required</b>             |  |
| **Course will satisfy UNO's General Education requirement |  |
| ^Course requires pre-requisite(s)                         |  |
| Minimum of "C" required                                   |  |
| <b>All of the following</b>                               | <b>29</b>  |
| THEA 1000   | THEATRE PRACTICUM (1 credit hours course - 4 credit hours required)                    |
| THEA 1300   | ACTING I (**)  |
| THEA 1500   | FOUNDATIONS OF PRODUCTION DESIGN   |
| THEA 1700   | SCRIPT ANALYSIS  |
| THEA 2000   | THEATRE PRACTICUM II (^ 2 credit hours course - 4 credit hours required)               |
| THEA 4050   | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (^)                                     |
| THEA 3400   | DIRECTING I (^)  |
| THEA 4780   | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)                                  |
| THEA 4900   | ADVANCED PROJECTS - CAPSTONE (^)   |
| <b>Select two of the following</b>                        | <b>6</b>   |
| THEA 1600   | FOUNDATIONS OF SCENIC PRODUCTION   |
| THEA 1650   | STAGE COSTUME (^)  |
| THEA 1660   | STAGE MAKEUP   |
| THEA 3660   | STAGE AND TV LIGHTING (^)  |
| <b>Select two of the following</b>                        | <b>6</b>   |
| THEA 3700   | THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)                                       |
| THEA 3710   | THEATRE HISTORY AND LITERATURE: MODERN / 1800-1960 (^)                                 |
| THEA 3720   | THEATRE AND SOCIAL JUSTICE   |
| THEA 4790   | THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^)                              |
| <b>Concentration in Musical Theatre</b>                   |  |
| <b>All of the following</b>                               | <b>15</b>  |
| THEA 3230   | AMERICAN MUSICAL THEATRE REPERTOIRE HISTORY  |
| THEA 1200   | SINGING TECHNIQUE FOR ACTORS   |
| THEA 3210   | ADVANCED SINGING TECHNIQUE FOR ACTORS (1 credit hour course - 2 credit hours required) |
| THEA 3310   | VOICE FOR THE ACTOR  |
| THEA 3300   | ACTING II (^)  |
| PEA 111Q  | BALLET   |
| PEA 111R  | JAZZ I   |
| PEA 112W  | TAP I  |
| <b>Select one of the following</b>                        | <b>3</b>   |
| THEA 4340   | ADVANCED ACTING: AUDITIONING (^)   |
| Any other Advanced Acting Class                           |  |
| <b>Select three credit hours of the following</b>         | <b>3</b>   |

|  |  |          |
|--|--|----------|
| THEA 3260  | MUSICAL THEATRE AND OPERA WORKSHOP (Course may be repeated for credit) |          |
| THEA 3200  | MUSICAL THEATRE ENSEMBLE (Course may be repeated for credit)           |          |
| <b>Required</b>  |  | <b>3</b> |
| THEA 4020  | ADVANCED PROJECTS IN THEATRE   |          |
| <b>ELECTIVES</b>   |  |          |
| Elective hours as required to reach a total of 120 hours |  |          |

## Theatre, Bachelor of Arts in Theatre - Musical Theatre Concentration Four Year Plan

### Freshman

| Fall                                 |                                  | Credits   |
|--------------------------------------|----------------------------------|-----------|
| THEA 1000                            | THEATRE PRACTICUM                | 1         |
| THEA 1300                            | ACTING I                         | 3         |
| THEA 1500                            | FOUNDATIONS OF PRODUCTION DESIGN | 3         |
| THEA 1200                            | SINGING TECHNIQUE FOR ACTORS     | 1         |
| ENGL 1150                            | ENGLISH COMPOSITION I            | 3         |
| General Education Course or Elective |                                  | 3         |
| <b>Credits</b>                       |                                  | <b>14</b> |

### Spring

|                                      |  |           |
|--------------------------------------|--|-----------|
| THEA 1000                            | THEATRE PRACTICUM  | 1         |
| PEA 111Q                             | BALLET   | 1         |
| THEA 1700                            | SCRIPT ANALYSIS  | 3         |
| THEA 1600<br>or THEA 3660            | FOUNDATIONS OF SCENIC PRODUCTION<br>or STAGE AND TV LIGHTING | 3         |
| THEA 3200                            | MUSICAL THEATRE ENSEMBLE                                     | 1         |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                    | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

### Sophomore

| Fall                                 |   |           |
|--------------------------------------|---|-----------|
| THEA 1000                            | THEATRE PRACTICUM                                 | 1         |
| THEA 3260                            | MUSICAL THEATRE AND OPERA WORKSHOP                | 1         |
| THEA 4780                            | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 | 3         |
| PEA 111R                             | JAZZ I  | 1         |
| THEA 3210                            | ADVANCED SINGING TECHNIQUE FOR ACTORS             | 1         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>16</b> |

### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| THEA 1000                            | THEATRE PRACTICUM  | 1 |
| THEA 3300                            | ACTING II  | 3 |
| THEA 3720<br>or THEA 4790            | THEATRE AND SOCIAL JUSTICE<br>or THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |

|                                      |           |
|--------------------------------------|-----------|
| General Education Course or Elective | 3         |
| <b>Credits</b>                       | <b>16</b> |

### Junior

#### Fall

|                                      |                                       |           |
|--------------------------------------|---------------------------------------|-----------|
| THEA 2000                            | THEATRE PRACTICUM II                  | 2         |
| THEA 1650                            | STAGE COSTUME                         | 3         |
| THEA 3400                            | DIRECTING I                           | 3         |
| THEA 3310                            | VOICE FOR THE ACTOR                   | 3         |
| THEA 3210                            | ADVANCED SINGING TECHNIQUE FOR ACTORS | 1         |
| General Education Course or Elective |                                       | 3         |
| General Education/Theatre Elective   |                                       | 3         |
| <b>Credits</b>                       |                                       | <b>18</b> |

#### Spring

|                                      |   |           |
|--------------------------------------|---|-----------|
| THEA 2000                            | THEATRE PRACTICUM II  | 2         |
| THEA 4050                            | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION                                      | 3         |
| THEA 3760<br>or THEA 3720            | THEATRE HISTORY AND LITERATURE: MODERN / 1850-2000<br>or THEATRE AND SOCIAL JUSTICE | 3         |
| PEA 112W                             | TAP I   | 1         |
| General Education Course or Elective |   | 4         |
| <b>Credits</b>                       |   | <b>13</b> |

### Senior

#### Fall

|                |                                    |           |
|----------------|------------------------------------|-----------|
| THEA 3260      | MUSICAL THEATRE AND OPERA WORKSHOP | 1         |
| THEA 4020      | ADVANCED PROJECTS IN THEATRE       | 3         |
| THEA 4340      | ADVANCED ACTING: AUDITIONING       | 3         |
| Elective       |                                    | 3         |
| Elective       |                                    | 3         |
| <b>Credits</b> |                                    | <b>13</b> |

#### Spring

|                      |                              |            |
|----------------------|------------------------------|------------|
| THEA 4900            | ADVANCED PROJECTS - CAPSTONE | 3          |
| Elective             |                              | 3          |
| Elective             |                              | 3          |
| Elective             |                              | 3          |
| Elective             |                              | 3          |
| <b>Credits</b>       |                              | <b>15</b>  |
| <b>Total Credits</b> |                              | <b>120</b> |

## Stage Management Concentration

## Theatre, Bachelor of Arts in Theatre - Stage Management Concentration Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |



**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

|   |
|---|
| Social Science – 3 hrs.                                   |
| Humanities – 3 hrs.                                       |
| Natural & Physical Science (must complete a lab) – 4 hrs. |
| Arts – 3 hrs.   |

**Individual and Social Responsibility 6**

|   |
|---|
| Cultural Knowledge – 3 hrs.             |
| Civic Knowledge and Engagement – 3 hrs. |

**MAJOR REQUIREMENTS - 65 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of "C" required

**All of the following 29**

|           |  |
|-----------|--|
| THEA 1000 | THEATRE PRACTICUM (1 credit hours course - 4 credit hours required)      |
| THEA 1300 | ACTING I (**)  |
| THEA 1500 | FOUNDATIONS OF PRODUCTION DESIGN   |
| THEA 1700 | SCRIPT ANALYSIS  |
| THEA 2000 | THEATRE PRACTICUM II (^ 2 credit hours course - 4 credit hours required) |
| THEA 4050 | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (^)                       |
| THEA 3400 | DIRECTING I (^)  |
| THEA 4780 | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)                    |
| THEA 4900 | ADVANCED PROJECTS - CAPSTONE (^)   |

**Select two of the following 6**

|           |                                  |
|-----------|----------------------------------|
| THEA 1600 | FOUNDATIONS OF SCENIC PRODUCTION |
| THEA 1650 | STAGE COSTUME (^)                |
| THEA 1660 | STAGE MAKEUP                     |
| THEA 3660 | STAGE AND TV LIGHTING (^)        |

**Select two of the following 6**

|           |   |
|-----------|---|
| THEA 3700 | THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)          |
| THEA 3710 | THEATRE HISTORY AND LITERATURE: MODERN / 1800-1960 (^)    |
| THEA 3720 | THEATRE AND SOCIAL JUSTICE                                |
| THEA 4790 | THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^) |

**Concentration in Stage Management****All of the following 15**

|           |   |
|-----------|---|
| PHHB 3030 | FIRST AID                                     |
| CMST 2010 | INTERPERSONAL COMMUNICATION (**)              |
| THEA 2400 | STAGE MANAGEMENT (^)                          |
| CMST 2410 | SMALL GROUP COMMUNICATION AND LEADERSHIP (**) |
| MGMT 3490 | MANAGING PEOPLE AND ORGANIZATIONS (^)         |

**Select three of the following 9**

|           |  |
|-----------|--|
| THEA 3410 | HUMAN DYNAMICS IN THE ARTS (^)                 |
| THEA 3420 | GLOBAL CITIZENSHIP IN THE ARTS (^)             |
| THEA 4020 | ADVANCED PROJECTS IN THEATRE (^)               |
| MGMT 4040 | MANAGING BEHAVIOR IN ORGANIZATIONS (^)         |
| THEA 4410 | MISSION AND STRATEGY IN ARTS ORGANIZATIONS (^) |
| THEA 4400 | DIRECTING II (^)                               |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Theatre, Bachelor of Arts in Theatre - Stage Management Concentration Four Year Plan

**Freshman**

| Fall      |                                      | Credits   |
|-----------|--------------------------------------|-----------|
| THEA 1000 | THEATRE PRACTICUM                    | 1         |
| THEA 1500 | FOUNDATIONS OF PRODUCTION DESIGN     | 3         |
| ENGL 1150 | ENGLISH COMPOSITION I                | 3         |
|           | General Education Course or Elective | 3         |
|           | General Education Course or Elective | 3         |
|           | <b>Credits</b>                       | <b>13</b> |

**Spring**

|           |   |   |
|-----------|---|---|
| THEA 1000 | THEATRE PRACTICUM                         | 1 |
| THEA 1700 | SCRIPT ANALYSIS                           | 3 |
| THEA 2400 | STAGE MANAGEMENT                          | 3 |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
|           | General Education Course or Elective      | 3 |
|           | General Education Course or Elective      | 3 |

**Credits 16**

**Sophomore****Fall**

|              |                                      |   |
|--------------|--------------------------------------|---|
| THEA 1000    | THEATRE PRACTICUM                    | 1 |
| THEA 1300    | ACTING I                             | 3 |
| PHHB 3030    | FIRST AID                            | 3 |
| THEA 1650    | STAGE COSTUME                        | 3 |
| or THEA 3310 | or VOICE FOR THE ACTOR               |   |
|              | General Education Course or Elective | 3 |
|              | General Education Course or Elective | 3 |

**Credits 16**

**Spring**

|              |                                  |   |
|--------------|----------------------------------|---|
| THEA 1000    | THEATRE PRACTICUM                | 1 |
| CMST 2010    | INTERPERSONAL COMMUNICATION      | 3 |
| THEA 1600    | FOUNDATIONS OF SCENIC PRODUCTION | 3 |
| or THEA 3660 | or STAGE AND TV LIGHTING         |   |

|                                      |   |            |
|--------------------------------------|---|------------|
| Elective                             |   | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>16</b>  |
| <b>Junior</b>                        |   |            |
| <b>Fall</b>                          |   |            |
| THEA 2000                            | THEATRE PRACTICUM II                              | 2          |
| CMST 2410                            | SMALL GROUP COMMUNICATION AND LEADERSHIP          | 3          |
| THEA 4780                            | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>17</b>  |
| <b>Spring</b>                        |   |            |
| THEA 2000                            | THEATRE PRACTICUM II                              | 2          |
| THEA 3720                            | THEATRE AND SOCIAL JUSTICE                        | 3          |
| THEA 4050                            | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION    | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 4          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Senior</b>                        |   |            |
| <b>Fall</b>                          |   |            |
| MGMT 3490                            | MANAGING PEOPLE AND ORGANIZATIONS                 | 3          |
| THEA 3400                            | DIRECTING I                                       | 3          |
| Theatre Concentration Elective       |   | 3          |
| THEA 3700                            | THEATRE HISTORY AND LITERATURE: 1960-PRESENT      | 3          |
| Elective                             |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| THEA 4900                            | ADVANCED PROJECTS - CAPSTONE                      | 3          |
| Theatre Concentration Elective       |   | 3          |
| Theatre Concentration Elective       |   | 3          |
| Elective                             |   | 3          |
| <b>Credits</b>                       |   | <b>12</b>  |
| <b>Total Credits</b>                 |   | <b>120</b> |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 65 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of "C" required

**All of the following 29**

|           |   |
|-----------|---|
| THEA 1000 | THEATRE PRACTICUM (1 credit hour course - 4 credit hours required)      |
| THEA 1300 | ACTING I (**)   |
| THEA 1500 | FOUNDATIONS OF PRODUCTION DESIGN  |
| THEA 1700 | SCRIPT ANALYSIS   |
| THEA 2000 | THEATRE PRACTICUM II (^ 2 credit hour course - 4 credit hours required) |
| THEA 4050 | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (^)                      |
| THEA 3400 | DIRECTING I (^)   |
| THEA 4780 | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)                   |
| THEA 4900 | ADVANCED PROJECTS - CAPSTONE (^)  |

**Select two of the following 6**

|           |                                  |
|-----------|----------------------------------|
| THEA 1600 | FOUNDATIONS OF SCENIC PRODUCTION |
| THEA 1650 | STAGE COSTUME (^)                |
| THEA 1660 | STAGE MAKEUP                     |
| THEA 3660 | STAGE AND TV LIGHTING (^)        |

**Select two of the following 6**

|           |   |
|-----------|---|
| THEA 3700 | THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)          |
| THEA 3710 | THEATRE HISTORY AND LITERATURE: MODERN / 1800-1960 (^)    |
| THEA 3720 | THEATRE AND SOCIAL JUSTICE                                |
| THEA 4790 | THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^) |

**Concentration in Technical Theatre**

## Technical Theatre Concentration

### Theatre, Bachelor of Arts in Theatre - Technical Theatre Concentration Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |

|  |                                      |           |
|--|--------------------------------------|-----------|
| <b>All of the following</b>                              |                                      | <b>12</b> |
| THEA 2500  | DRAWING FOR THE THEATRE (^)          |           |
| THEA 3500  | COLLABORATIVE DESIGN STUDIES (^)     |           |
| THEA 4500  | CHALLENGES IN PRODUCTION DESIGN (^)  |           |
| THEA 4550  | PERIOD STYLES IN DRESS AND DECOR (^) |           |
| <b>Select three of the following</b>                     |                                      | <b>9</b>  |
| THEA 2400  | STAGE MANAGEMENT (^)                 |           |
| THEA 3000  | SPECIAL TOPICS IN THEATRE            |           |
| THEA 4020  | ADVANCED PROJECTS IN THEATRE (^)     |           |
| MUS 4200   | AUDIO RECORDING TECHNIQUES I (^)     |           |
| MUS 4210   | AUDIO RECORDING TECHNIQUES II (^)    |           |
| <b>Select three credit hours outside the department</b>  |                                      | <b>3</b>  |
| advisor approval- related to concentration               |                                      |           |
| <b>ELECTIVES</b>   |                                      |           |
| Elective hours as required to reach a total of 120 hours |                                      |           |

## Theatre, Bachelor of Arts in Theatre - Technical Theatre Concentration Four Year Plan

### Freshman

| <b>Fall</b>                          |                                  | <b>Credits</b> |
|--------------------------------------|----------------------------------|----------------|
| THEA 1000                            | THEATRE PRACTICUM                | 1              |
| THEA 1500                            | FOUNDATIONS OF PRODUCTION DESIGN | 3              |
| ENGL 1150                            | ENGLISH COMPOSITION I            | 3              |
| General Education Course or Elective |                                  | 3              |
| General Education Course or Elective |                                  | 3              |

**Credits 13**

### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| THEA 1000                            | THEATRE PRACTICUM  | 1 |
| THEA 1700                            | SCRIPT ANALYSIS  | 3 |
| THEA 1600<br>or THEA 3660            | FOUNDATIONS OF SCENIC PRODUCTION<br>or STAGE AND TV LIGHTING | 3 |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                    | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 3 |

**Credits 16**

### Sophomore

| <b>Fall</b>                          |                         |   |
|--------------------------------------|-------------------------|---|
| THEA 1000                            | THEATRE PRACTICUM       | 1 |
| THEA 1300                            | ACTING I                | 3 |
| THEA 1650                            | STAGE COSTUME           | 3 |
| THEA 2500                            | DRAWING FOR THE THEATRE | 3 |
| General Education Course or Elective |                         | 3 |
| General Education Course or Elective |                         | 3 |

**Credits 16**

### Spring

|                                      |                              |   |
|--------------------------------------|------------------------------|---|
| THEA 1000                            | THEATRE PRACTICUM            | 1 |
| THEA 3500                            | COLLABORATIVE DESIGN STUDIES | 3 |
| THEA 3720                            | THEATRE AND SOCIAL JUSTICE   | 3 |
| Elective                             |                              | 3 |
| General Education Course or Elective |                              | 3 |

|                                    |           |
|------------------------------------|-----------|
| General Education/Theatre Elective | 3         |
| <b>Credits</b>                     | <b>16</b> |

### Junior

#### Fall

|                                      |   |   |
|--------------------------------------|---|---|
| THEA 2000                            | THEATRE PRACTICUM II                              | 2 |
| THEA 4550                            | PERIOD STYLES IN DRESS AND DECOR                  | 3 |
| THEA 4780                            | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 | 3 |
| General Education Course or Elective |   | 3 |
| General Education Course or Elective |   | 3 |
| General Education Course or Elective |   | 3 |

**Credits 17**

#### Spring

|                                      |  |   |
|--------------------------------------|--|---|
| THEA 2000                            | THEATRE PRACTICUM II                           | 2 |
| THEA 4500                            | CHALLENGES IN PRODUCTION DESIGN                | 3 |
| THEA 4050                            | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION | 3 |
| General Education Course or Elective |  | 3 |
| General Education Course or Elective |  | 4 |

**Credits 15**

### Senior

#### Fall

|   |  |   |
|---|--|---|
| THEA 4900                                 | ADVANCED PROJECTS - CAPSTONE                 | 3 |
| THEA 3400                                 | DIRECTING I                                  | 3 |
| Theatre Concentration Elective            |  | 3 |
| THEA 3700                                 | THEATRE HISTORY AND LITERATURE: 1960-PRESENT | 3 |
| Elective (outside of department elective) |  | 3 |

**Credits 15**

#### Spring

|                                |  |   |
|--------------------------------|--|---|
| Theatre Concentration Elective |  | 3 |
| Theatre Concentration Elective |  | 3 |
| Elective                       |  | 3 |
| Elective                       |  | 3 |

**Credits 12**

**Total Credits 120**

## Arts Entrepreneurship Minor

## Arts Entrepreneurship Minor Requirements

The Arts Entrepreneurship minor is an interdisciplinary course of study that helps students in the arts develop the business acumen that supports their future as artists who are adaptable to a range of different employment opportunities. Classes and experiences prepare students for the constantly shifting employment landscape by equipping them with nimble entrepreneurial approaches, mindsets, and skills.

| <b>Code</b>                  | <b>Title</b>  | <b>Credits</b> |
|------------------------------|---|----------------|
| <b>All of the following:</b> |   | <b>18</b>      |
| ENTR 3710                    | ENTREPRENEURIAL FOUNDATIONS                             |                |
| THEA 3410                    | HUMAN DYNAMICS IN THE ARTS                              |                |
| or ART 4020                  | PROFESSIONAL STUDIO PRACTICES                           |                |
| or ART 3760                  | RESEARCH, WRITING, AND COMMUNICATION FOR CAREERS IN ART |                |
| or WRWS 3010                 | LITERARY MAGAZINE: STAFF & RESEARCH                     |                |
| or WRWS 3500                 | CREATIVE WRITING FOR THE ARTS                           |                |

|  |  |
|--|--|
| ENTR 4730  | NEW VENTURE FORMATION                  |
| or ENTR 4720   | INNOVATION VENTURES                    |
| ENTR 4760  | SELLING IN AN ENTREPRENEURIAL CONTEXT  |
| or MKT 3100  | PROFESSIONAL SELLING                   |
| PA 3500  | NONPROFIT ORGANIZATIONS AND MANAGEMENT |
| PA 4500  | NONPROFIT FUNDRAISING                  |
| 1 Non-credit bearing field experience that will count as an internship |  |

|           |   |
|-----------|---|
| THEA 3710 | THEATRE HISTORY AND LITERATURE:MODERN / 1800-1960     |
| THEA 3720 | THEATRE AND SOCIAL JUSTICE                            |
| THEA 4000 | SUMMER THEATRE WORKSHOP                               |
| THEA 4020 | ADVANCED PROJECTS IN THEATRE                          |
| THEA 4030 | INTERNSHIP II   |
| THEA 4050 | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION        |
| THEA 4310 | ADVANCED ACTING: POST REALISM                         |
| THEA 4320 | ADVANCED ACTING: GREEKS TO RESTORATION                |
| THEA 4330 | ADVANCED ACTING: ENSEMBLE PLAY PRODUCTION             |
| THEA 4340 | ADVANCED ACTING: AUDITIONING                          |
| THEA 4500 | CHALLENGES IN PRODUCTION DESIGN                       |
| THEA 4550 | PERIOD STYLES IN DRESS AND DECOR                      |
| THEA 4780 | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500     |
| THEA 4790 | THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 |
| THEA 4900 | ADVANCED PROJECTS - CAPSTONE                          |

## Theatre Minor

### Theatre Minor Requirements

The theatre minor offers students a broad-based liberal arts foundation in combination with rigorous and disciplined professional training, in all aspects of theatre and the wider liberal arts. In completing the requirements for the minor, students must have 9 credits of upper-division coursework.

#### Requirements

| Code   | Title   | Credits  |
|--|---|----------|
| <b>All of the following:</b>   |   | <b>6</b> |
| THEA 1000  | THEATRE PRACTICUM (Repeat three (3) times)      |          |
| THEA 1300  | ACTING I  |          |
| <b>Select one of the following</b>   |   | <b>3</b> |
| THEA 1500  | FOUNDATIONS OF PRODUCTION DESIGN                |          |
| THEA 1600  | FOUNDATIONS OF SCENIC PRODUCTION                |          |
| THEA 3660  | STAGE AND TV LIGHTING                           |          |
| <b>Select 9 hours of Theatre Electives (must include at least two (2) upper division (3000/4000) courses from the following:</b> |   | <b>9</b> |
| THEA 1010  | THEATRE APPRECIATION                            |          |
| THEA 1050  | FILM HISTORY AND APPRECIATION                   |          |
| THEA 1500  | FOUNDATIONS OF PRODUCTION DESIGN                |          |
| THEA 1650  | STAGE COSTUME                                   |          |
| THEA 1600  | FOUNDATIONS OF SCENIC PRODUCTION                |          |
| THEA 1700  | SCRIPT ANALYSIS                                 |          |
| THEA 2000  | THEATRE PRACTICUM II                            |          |
| THEA 2020  | THEATRE FOR YOUNG AUDIENCES                     |          |
| THEA 2030  | INTERNSHIP I                                    |          |
| THEA 2300  | MOVEMENT FOR THE ACTOR                          |          |
| THEA 2500  | DRAWING FOR THE THEATRE                         |          |
| THEA 2600  | COSTUME PATTERNING AND DRAPING                  |          |
| THEA 3000  | SPECIAL TOPICS IN THEATRE                       |          |
| THEA 3010  | ADVANCED PROJECTS IN THEATRE: INDEPENDENT STUDY |          |
| THEA 3310  | VOICE FOR THE ACTOR                             |          |
| THEA 3300  | ACTING II                                       |          |
| THEA 3400  | DIRECTING I                                     |          |
| THEA 3500  | COLLABORATIVE DESIGN STUDIES                    |          |
| THEA 3660  | STAGE AND TV LIGHTING                           |          |
| THEA 3700  | THEATRE HISTORY AND LITERATURE: 1960-PRESENT    |          |

## Musical Theatre Minor

### Musical Theatre Minor Requirements

| Code  | Title                                       | Credits  |
|---|---|----------|
| <b>Singing</b>  |   | <b>3</b> |
| THEA 1200   | SINGING TECHNIQUE FOR ACTORS                |          |
| THEA 3210   | ADVANCED SINGING TECHNIQUE FOR ACTORS       |          |
| The 3-credit requirement for singing can also be fulfilled with 3 credits of MUS 115T Applied Voice (music majors only) |   |          |
| <b>Acting</b>   |   | <b>6</b> |
| THEA 1300   | ACTING I                                    |          |
| One of the following:   |   |          |
| THEA 3300   | ACTING II                                   |          |
| THEA 4340   | ADVANCED ACTING: AUDITIONING                |          |
| <b>Dance</b>  |   | <b>3</b> |
| PEA 111Q  | BALLET                                      |          |
| PEA 111R  | JAZZ I                                      |          |
| PEA 112W  | TAP I                                       |          |
| <b>Musical Theatre &amp; Opera Workshops</b>  |   | <b>3</b> |
| 3 total credits from the following. Courses may be repeated for credit  |   |          |
| THEA 3200   | MUSICAL THEATRE ENSEMBLE                    |          |
| THEA 3260   | MUSICAL THEATRE AND OPERA WORKSHOP          |          |
| <b>History</b>  |   | <b>3</b> |
| THEA 3230   | AMERICAN MUSICAL THEATRE REPERTOIRE HISTORY |          |

## Writer's Workshop: Creative Writing

The Writer's Workshop mission is to offer creative writing students an apprenticeship with professional writers. We prepare students to read closely, think critically, write professionally and find their voices in poetry,

fiction, creative nonfiction, and screenwriting. Students will also sharpen their capacity for empathy, opening themselves to diverse cultural points of view.

Other Information

Thesis Option

Students whose work is above average and who are considering doing graduate work in creative writing may apply after one Advanced Studio to pursue the BFA with Senior Thesis. The result is a book-length manuscript of original work in the student’s area of concentration (e.g. a collection of poems, a collection of short stories, a novel, a collection of essays, or a screenplay), prepared during the last year of study while working one-on-one with a WRWS faculty member. To earn this special designation on their official transcripts, candidates for the degree must take two semesters of WRWS 4990.

Student Groups

The Crop Literary Club  
13th Floor Literary Magazine

For More Information on Creative Writing

Contact the Department of Writer’s Workshop at 402.554.2406

Website (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/writers-workshop/>)

Degrees Offered

- Creative Writing, Bachelor of Fine Arts (p. 504)

Minors Offered:

- Arts Entrepreneurship Minor (p. 502)
- Creative Writing Minor (p. 510)
- Editing & Publishing (p. 511)
- Screenwriting Minor (p. 511)

Creative Writing, Bachelor of Fine Arts

Creative Writing, Bachelor of Fine Arts Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of “C-”required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |

|   |  |
|---|--|
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS          |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                 |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                              |
| STAT 1530   | ELEMENTARY STATISTICS  |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge</b>   |  |
| <b>13</b>   |  |
| Social Science – 3 hrs.   |  |
| Humanities – 3 hrs.   |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility</b>   |  |
| <b>6</b>  |  |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS - 76 Hours Required</b>   |  |
| **Course will satisfy UNO’s General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| Minimum of C required   |  |
| <b>Literature and Theory Core</b>   |  |
| <b>9</b>  |  |
| WRWS 1010   | CONTEMPORARY WRITERS:IN PERSON IN PRINT (^)                  |
| WRWS 4000   | FORM AND THEORY (^)  |
| <b>Select One</b>   |  |
| WRWS 4000   | FORM AND THEORY (^)  |
| WRWS 3010   | LITERARY MAGAZINE: STAFF & RESEARCH (^)                      |
| WRWS 3990   | INDEPENDENT STUDIES (^)                                      |
| <b>Lower Level Literature:</b>  |  |
| <b>9</b>  |  |
| <b>Select Three of the following:</b>   |  |
| ENGL 2230   | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)          |
| ENGL 2250   | THE SHORT STORY (** ^)                                       |
| ENGL 2260   | BLACK SHORT STORY (** ^)                                     |
| ENGL 2310   | INTRODUCTION TO BRITISH LITERATURE I (** ^)                  |
| ENGL 2320   | INTRODUCTION TO BRITISH LITERATURE II (** ^)                 |
| ENGL 2350   | AFRICAN AMERICAN LITERATURE 1746-1939 (^)                    |
| ENGL 2360   | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)                 |
| ENGL 2450   | AMERICAN LITERATURE I (** ^)                                 |
| ENGL 2460   | AMERICAN LITERATURE II (** ^)                                |
| ENGL 2470   | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                  |
| ENGL 2490   | LATINO/A LITERATURE (** ^)                                   |
| ENGL 2500   | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^) |
| ENGL 2510   | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)   |
| ENGL 2520   | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                    |
| WRWS 2000   | SPECIAL STUDIES IN WRITING (^)                               |
| <b>Minimun of 3 credits from below</b>  |  |

|   |  |
|---|--|
| ENGL 2310                                   | INTRODUCTION TO BRITISH LITERATURE I (** ^)                  |
| ENGL 2320                                   | INTRODUCTION TO BRITISH LITERATURE II (** ^)                 |
| ENGL 2360                                   | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)                 |
| ENGL 2450                                   | AMERICAN LITERATURE I (** ^)                                 |
| ENGL 2460                                   | AMERICAN LITERATURE II (** ^)                                |
| ENGL 2470                                   | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                  |
| ENGL 2490                                   | LATINO/A LITERATURE (** ^)                                   |
| ENGL 2500                                   | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^) |
| ENGL 2510                                   | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)   |
| ENGL 2520                                   | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                    |
| <b>Upper Level Literature</b>               |  |
| ENGL 4340                                   | SHAKESPEARE (^)  |
| <b>Select Five Courses</b>                  |  |
| ENGL 3000                                   | SPECIAL TOPICS IN ENGLISH                                    |
| FREN 3050                                   | INTRODUCTION TO TRANSLATION (^)                              |
| FREN 4150                                   | CONTEMPORARY FRENCH NOVEL (^)                                |
| FREN 4170                                   | CONTEMPORARY FRENCH THEATER (^)                              |
| FREN 4860                                   | MODERN FRENCH WOMEN AUTHORS (^)                              |
| FREN 4900                                   | INDEPENDENT STUDY (^)  |
| GERM 4150                                   | INTRODUCTION TO GERMAN LITERATURE (^)                        |
| GERM 4960                                   | PRO-SEMINAR: SOCIETY AND CULTURE (^)                         |
| SPAN 3170                                   | SURVEY OF SPANISH LITERATURE I (^)                           |
| SPAN 3180                                   | INTRODUCTION TO SPANISH LITERATURE (^)                       |
| SPAN 4900                                   | INDEPENDENT STUDY (^)  |
| SPAN 4960                                   | PRO-SEMINAR: CULTURE AND SOCIETY (^)                         |
| THEA 3700                                   | THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)             |
| THEA 3710                                   | THEATRE HISTORY AND LITERATURE: MODERN / 1800-1960 (^)       |
| THEA 4050                                   | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (** ^)        |
| THEA 4780                                   | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)        |
| THEA 4790                                   | THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^)    |
| WRWS 3010                                   | LITERARY MAGAZINE: STAFF & RESEARCH (^ if not taken above)   |
| <b>College Level Foreign Language</b>       |  |
| High School Foreign Language cannot be used |  |
| <b>Select a Concentration</b>               |  |
| Creative Nonfiction                         |  |
| Fiction or Poetry                           |  |
| Screenwriting                               |  |
| <b>ELECTIVES</b>                            |  |

Elective hours as required to reach a total of 120 hours

## Creative Writing, Bachelor of Fine Arts Concentrations

- Creative Nonfiction (p. 506)
- Fiction or Poetry (p. 508)
- Screenwriting (p. 509)

## Creative Writing, Bachelor of Fine Arts Four Year Plan

### Freshman

| Fall                                      | Credits   |
|---|-----------|
| COMP I (COMP II if student has AP credit) | 3         |
| Quantative Literacy                       | 3         |
| Oral Communication                        | 3         |
| General Education Course or Elective      | 3         |
| General Education Course or Elective      | 3         |
| <b>Credits</b>                            | <b>15</b> |

### Spring

|                                      |           |
|--------------------------------------|-----------|
| COMP II <sup>1</sup>                 | 3         |
| Lower-Level Literature               | 3         |
| General Education Course or Elective | 3         |
| General Education Course or Elective | 3         |
| General Education Course or Elective | 3         |
| <b>Credits</b>                       | <b>15</b> |

### Sophomore

#### Fall

|  |           |
|--|-----------|
| Fundamentals of Fiction or Poetry <sup>3</sup> | 3         |
| General Education Course or Elective           | 3         |
| General Education Course or Elective           | 4         |
| Lower-Level Literature                         | 3         |
| <b>Credits</b>                                 | <b>13</b> |

#### Spring

|  |           |
|--|-----------|
| Basic Studio   | 4         |
| Second Fundamental of Fiction or Poetry for Fiction or Poetry majors     | 3         |
| OR- First CNF or Screenwriting Elective                                  |           |
| OR- Pre-requisite for one (1) CNF or Screenwriting Elective <sup>3</sup> |           |
| Lower-Level Literature   | 3         |
| Upper-Level Literature   | 3         |
| Humanities and Fine Arts or Social Science                               | 3         |
| <b>Credits</b>   | <b>16</b> |

### Junior

#### Fall

|   |              |
|---|--------------|
| Intermediate Studio                               | 4            |
| First Extra Basic for Fiction or Poetry majors    | 3-4          |
| OR- First or Second CNF or Screenwriting Elective |              |
| Upper-Level Literature                            | 3            |
| Upper-Level Literature                            | 3            |
| <b>Credits</b>                                    | <b>13-14</b> |

#### Spring

|   |              |
|---|--------------|
| Advanced Studio I                                 | 4            |
| Second Extra Basic for Fiction or Poetry majors   | 3-4          |
| OR- Second or Third CNF or Screenwriting Elective |              |
| Upper-Level Literature                            | 3            |
| Upper-Level Literature                            | 3            |
| <b>Credits</b>                                    | <b>13-14</b> |



**Senior  
Fall**

|                                     |   |
|-------------------------------------|---|
| Advanced Studio II                  | 4 |
| Third CNF or Screenwriting Elective | 3 |
| Contemporary Writers                | 3 |
| Form & Theory                       | 3 |
| Foreign Language or ASL             | 5 |

**Credits** **18**

**Spring**

|                              |   |
|------------------------------|---|
| Form & Theory                | 3 |
| Humanities or Social Science | 3 |
| Foreign Language or ASL      | 5 |
| Upper-Level Literature       | 3 |
| Elective                     | 3 |

**Credits** **17**

**Total Credits** **120-122**

<sup>1</sup> If student enters UNO with AP Comp credit, they can take Comp II in Freshman Fall semester, and Fundamentals of Fiction/Poetry in Freshman Spring semester.

<sup>2</sup> \*Fundamentals of Fiction or Poetry is, on rare occasion, accepted from another institution.

\*\*Fundamentals fulfills the Writing in the Discipline requirement

<sup>3</sup> Most pre-reqs for CNF and Screenwriting Electives overlap with WRWS required courses; however, the pre-reqs for a few CNF/Screenwriting Electives adds 3-6 hours to the Road Map.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** Students must successfully complete all major courses with a grade of "C" (2.0) or better.

**Graduation Requirements:** The BFA in Creative Writing requires a minimum of 75 semester hours of major coursework designated by the candidate's area of emphasis (Fiction, Poetry, Creative Nonfiction or Screenwriting) in consultation with the student's program advisor. The degree requires 120 total credit hours of coursework.

# Creative Nonfiction Concentration

## Creative Writing, Bachelor of Fine Arts Creative Nonfiction Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 76 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| Minimum of C required   |   |           |
| <b>Literature and Theory Core:</b>  |   | <b>9</b>  |
| WRWS 1010   | CONTEMPORARY WRITERS: IN PERSON IN PRINT (^)            |           |
| WRWS 4000   | FORM AND THEORY (^)                                     |           |
| <b>Select One</b>   |   |           |
| WRWS 4000   | FORM AND THEORY (^)                                     |           |
| WRWS 3010   | LITERARY MAGAZINE: STAFF & RESEARCH (^)                 |           |
| WRWS 3990   | INDEPENDENT STUDIES (^)                                 |           |
| <b>Lower Level Literature:</b>  |   | <b>9</b>  |
| <b>Select Three Courses</b>   |   |           |

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| ENGL 2230                              | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)          |
| ENGL 2250                              | THE SHORT STORY (** ^)                                       |
| ENGL 2260                              | BLACK SHORT STORY (** ^)                                     |
| ENGL 2310                              | INTRODUCTION TO BRITISH LITERATURE I (** ^)                  |
| ENGL 2320                              | INTRODUCTION TO BRITISH LITERATURE II (** ^)                 |
| ENGL 2350                              | AFRICAN AMERICAN LITERATURE 1746-1939 (^)                    |
| ENGL 2360                              | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)                 |
| ENGL 2450                              | AMERICAN LITERATURE I (** ^)                                 |
| ENGL 2460                              | AMERICAN LITERATURE II (** ^)                                |
| ENGL 2470                              | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                  |
| ENGL 2490                              | LATINO/A LITERATURE (** ^)                                   |
| ENGL 2500                              | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^) |
| ENGL 2510                              | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)   |
| ENGL 2520                              | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                    |
| WRWS 2000                              | SPECIAL STUDIES IN WRITING (^)                               |
| <b>Minimun of 3 credits from below</b> |  |
| ENGL 2310                              | INTRODUCTION TO BRITISH LITERATURE I (** ^)                  |
| ENGL 2320                              | INTRODUCTION TO BRITISH LITERATURE II (** ^)                 |
| ENGL 2360                              | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)                 |
| ENGL 2450                              | AMERICAN LITERATURE I (** ^)                                 |
| ENGL 2460                              | AMERICAN LITERATURE II (** ^)                                |
| ENGL 2470                              | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                  |
| ENGL 2490                              | LATINO/A LITERATURE (** ^)                                   |
| ENGL 2500                              | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^) |
| ENGL 2510                              | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)   |
| ENGL 2520                              | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                    |
| <b>Upper Level Literature: 18</b>      |  |
| ENGL 4340                              | SHAKESPEARE (^)  |
| <b>Select Five Courses</b>             |  |
| ENGL 3000                              | SPECIAL TOPICS IN ENGLISH                                    |
| FREN 3050                              | INTRODUCTION TO TRANSLATION (^)                              |
| FREN 4150                              | CONTEMPORARY FRENCH NOVEL (^)                                |
| FREN 4170                              | CONTEMPORARY FRENCH THEATER (^)                              |
| FREN 4860                              | MODERN FRENCH WOMEN AUTHORS (^)                              |
| FREN 4900                              | INDEPENDENT STUDY (^)  |
| GERM 4150                              | INTRODUCTION TO GERMAN LITERATURE (^)                        |
| GERM 4960                              | PRO-SEMINAR: SOCIETY AND CULTURE (^)                         |
| SPAN 3170                              | SURVEY OF SPANISH LITERATURE I (^)                           |
| SPAN 3180                              | INTRODUCTION TO SPANISH LITERATURE (^)                       |
| SPAN 4900                              | INDEPENDENT STUDY (^)  |

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| SPAN 4960  | PRO-SEMINAR: CULTURE AND SOCIETY (^)                       |
| THEA 3700  | THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)           |
| THEA 3710  | THEATRE HISTORY AND LITERATURE:MODERN / 1800-1960 (^)      |
| THEA 4050  | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (^)         |
| THEA 4780  | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)      |
| THEA 4790  | THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^)  |
| WRWS 3010  | LITERARY MAGAZINE: STAFF & RESEARCH (^ if not taken above) |
| <b>College Level Foreign Language 8-10</b>                   |  |
| High School Foreign Language cannot be used                  |  |
| <b>Concentration in Creative NonFiction: 32 credit hours</b> |  |
| <b>Writing Core 11</b>                                       |  |
| WRWS 2050  | FUNDAMENTALS OF FICTION WRITING (^)                        |
| WRWS 2100  | BASIC FICTION STUDIO (^)                                   |
| WRWS 2300  | BASIC CREATIVE NONFICTION STUDIO (^)                       |
| or WRWS 2060   | FUNDAMENTALS OF POETRY WRITING                             |
| WRWS 2200  | BASIC POETRY STUDIO (^)                                    |
| WRWS 2300  | BASIC CREATIVE NONFICTION STUDIO (^)                       |
| or WRWS 2050   | FUNDAMENTALS OF FICTION WRITING                            |
| or WRWS 2060   | FUNDAMENTALS OF POETRY WRITING                             |
| WRWS 2600  | BASIC SCREENWRITING AND TELEVISION WRITING STUDIO (^)      |
| WRWS 2300  | BASIC CREATIVE NONFICTION STUDIO (^)                       |
| <b>Concentration Required Courses 12</b>                     |  |
| WRWS 3300  | INTERMEDIATE CREATIVE NONFICTION STUDIO (^)                |
| WRWS 4300  | ADVANCED CREATIVE NONFICTION STUDIO (^)                    |
| WRWS 4310  | ADVANCED CREATIVE NONFICTION STUDIO II (^)                 |
| <b>Select three courses 9</b>                                |  |
| ENGL 4860  | THE MODERN FAMILIAR ESSAY (^)                              |
| ENGL 4820  | AUTOBIOGRAPHY (^)  |
| JMC 3400   | FEATURE AND OPINION WRITING (^)                            |
| JMC 3500   | PR AND ADVERTISING DESIGN (^)                              |
| JMC 4250   | STRATEGIC WRITING FOR PUBLIC RELATIONS AND ADVERTISING (^) |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

# Fiction or Poetry Concentration

## Creative Writing, Bachelor of Fine Arts Fiction or Poetry Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 76 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| Minimum of C required   |   |           |
| <b>Literature and Theory Core</b>   |   | <b>9</b>  |
| WRWS 1010   | CONTEMPORARY WRITERS: IN PERSON IN PRINT (^)            |           |
| WRWS 4000   | FORM AND THEORY (^)                                     |           |
| <b>Select One</b>   |   |           |
| WRWS 4000   | FORM AND THEORY (^)                                     |           |
| WRWS 3010   | LITERARY MAGAZINE: STAFF & RESEARCH (^)                 |           |
| WRWS 3990   | INDEPENDENT STUDIES (^)                                 |           |
| <b>Lower Level Literature:</b>  |   | <b>9</b>  |
| <b>Select Three</b>   |   |           |

|                                 |  |    |
|---------------------------------|--|----|
| ENGL 2230                       | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)          |    |
| ENGL 2250                       | THE SHORT STORY (** ^)                                       |    |
| ENGL 2260                       | BLACK SHORT STORY (** ^)                                     |    |
| ENGL 2310                       | INTRODUCTION TO BRITISH LITERATURE I (** ^)                  |    |
| ENGL 2320                       | INTRODUCTION TO BRITISH LITERATURE II (** ^)                 |    |
| ENGL 2350                       | AFRICAN AMERICAN LITERATURE 1746-1939 (^)                    |    |
| ENGL 2360                       | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)                 |    |
| ENGL 2450                       | AMERICAN LITERATURE I (** ^)                                 |    |
| ENGL 2460                       | AMERICAN LITERATURE II (** ^)                                |    |
| ENGL 2470                       | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                  |    |
| ENGL 2490                       | LATINO/A LITERATURE (** ^)                                   |    |
| ENGL 2500                       | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^) |    |
| ENGL 2510                       | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)   |    |
| ENGL 2520                       | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                    |    |
| WRWS 2000                       | SPECIAL STUDIES IN WRITING (^)                               |    |
| Minimun of 3 credits from below |  |    |
| ENGL 2310                       | INTRODUCTION TO BRITISH LITERATURE I (** ^)                  |    |
| ENGL 2320                       | INTRODUCTION TO BRITISH LITERATURE II (** ^)                 |    |
| ENGL 2360                       | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)                 |    |
| ENGL 2450                       | AMERICAN LITERATURE I (** ^)                                 |    |
| ENGL 2460                       | AMERICAN LITERATURE II (** ^)                                |    |
| ENGL 2470                       | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                  |    |
| ENGL 2490                       | LATINO/A LITERATURE (** ^)                                   |    |
| ENGL 2500                       | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^) |    |
| ENGL 2510                       | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)   |    |
| ENGL 2520                       | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                    |    |
| Upper Level Literature          |  | 18 |
| ENGL 4340                       | SHAKESPEARE (^)  |    |
| Select Five Courses             |  |    |
| ENGL 3000                       | SPECIAL TOPICS IN ENGLISH                                    |    |
| FREN 3050                       | INTRODUCTION TO TRANSLATION (^)                              |    |
| FREN 4150                       | CONTEMPORARY FRENCH NOVEL (^)                                |    |
| FREN 4170                       | CONTEMPORARY FRENCH THEATER (^)                              |    |
| FREN 4860                       | MODERN FRENCH WOMEN AUTHORS (^)                              |    |
| FREN 4900                       | INDEPENDENT STUDY (^)  |    |
| GERM 4150                       | INTRODUCTION TO GERMAN LITERATURE (^)                        |    |
| GERM 4960                       | PRO-SEMINAR: SOCIETY AND CULTURE (^)                         |    |
| SPAN 3170                       | SURVEY OF SPANISH LITERATURE I (^)                           |    |
| SPAN 3180                       | INTRODUCTION TO SPANISH LITERATURE (^)                       |    |
| SPAN 4900                       | INDEPENDENT STUDY (^)  |    |

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|--|---|-------------|
| SPAN 4960  | PRO-SEMINAR: CULTURE AND SOCIETY (^)                        |             |
| THEA 3700  | THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)            |             |
| THEA 3710  | THEATRE HISTORY AND LITERATURE:MODERN / 1800-1960 (^)       |             |
| THEA 4050  | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION ( ^ )        |             |
| THEA 4780  | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)       |             |
| THEA 4790  | THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^)   |             |
| WRWS 3010  | LITERARY MAGAZINE: STAFF & RESEARCH ( ^ if not taken above) |             |
| <b>College Level Foreign Language</b>  |   | <b>8-10</b> |
| High School Foreign Language cannot be used                                    |   |             |
| <b>Select either the Fiction Studio sequence or the Poetry Studio sequence</b> |   | <b>30</b>   |
| <b>Concentration in Fiction: 30 Hours Required</b>                             |   |             |
| <b>Writing Core – 10 hours</b>   |   |             |
| WRWS 2050  | FUNDAMENTALS OF FICTION WRITING (^)                         |             |
| WRWS 2060  | FUNDAMENTALS OF POETRY WRITING (^)                          |             |
| WRWS 2100  | BASIC FICTION STUDIO (^)                                    |             |
| <b>Select Two Basic Studios Courses - 8 hours</b>                              |   |             |
| WRWS 2200  | BASIC POETRY STUDIO (^)                                     |             |
| WRWS 2300  | BASIC CREATIVE NONFICTION STUDIO (^)                        |             |
| WRWS 2600  | BASIC SCREENWRITING AND TELEVISION WRITING STUDIO (^)       |             |
| <b>Fiction Concentration Required Courses - 12 hours</b>                       |   |             |
| WRWS 3100  | INTERMEDIATE FICTION STUDIO (^)                             |             |
| WRWS 4100  | ADVANCED FICTION STUDIO I (^)                               |             |
| WRWS 4110  | ADVANCED FICTION STUDIO I (^)                               |             |
| <b>Concentration in Poetry: 30 Hours Required</b>                              |   |             |
| <b>Writing Core – 10 hours</b>   |   |             |
| WRWS 2050  | FUNDAMENTALS OF FICTION WRITING (^)                         |             |
| WRWS 2060  | FUNDAMENTALS OF POETRY WRITING (^)                          |             |
| WRWS 2200  | BASIC POETRY STUDIO (^)                                     |             |
| <b>Select Two Basic Studios Courses – 8 hours</b>                              |   |             |
| WRWS 2100  | BASIC FICTION STUDIO (^)                                    |             |
| WRWS 2300  | BASIC CREATIVE NONFICTION STUDIO (^)                        |             |
| WRWS 2600  | BASIC SCREENWRITING AND TELEVISION WRITING STUDIO (^)       |             |
| <b>Poetry Concentration Required Courses - 12 hours</b>                        |   |             |
| WRWS 3200  | INTERMEDIATE POETRY STUDIO (^)                              |             |
| WRWS 4200  | ADVANCED POETRY STUDIO I (^)                                |             |
| WRWS 4210  | ADVANCED POETRY STUDIO II (^)                               |             |
| <b>ELECTIVES</b>   |   |             |
| Elective hours as required to reach a total of 120 hours                       |   |             |

## Screenwriting Concentration

### Creative Writing, Bachelor of Fine Arts - Screenwriting Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 76 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| Minimum of C required   |   |           |
| <b>Literature and Theory Core</b>   |   | <b>9</b>  |
| WRWS 1010   | CONTEMPORARY WRITERS:IN PERSON IN PRINT (^)             |           |
| WRWS 4000   | FORM AND THEORY (^)                                     |           |
| <b>Select One</b>   |   |           |
| WRWS 4000   | FORM AND THEORY (^)                                     |           |
| WRWS 3010   | LITERARY MAGAZINE: STAFF & RESEARCH (^)                 |           |
| WRWS 3990   | INDEPENDENT STUDIES (^)                                 |           |
| <b>Lower Level Literature</b>   |   | <b>9</b>  |
| <b>Select Three Courses</b>   |   |           |
| ENGL 2230   | SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (** ^)     |           |
| ENGL 2250   | THE SHORT STORY (** ^)                                  |           |

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| ENGL 2260                              | BLACK SHORT STORY (** ^)                                     |
| ENGL 2310                              | INTRODUCTION TO BRITISH LITERATURE I (** ^)                  |
| ENGL 2320                              | INTRODUCTION TO BRITISH LITERATURE II (** ^)                 |
| ENGL 2350                              | AFRICAN AMERICAN LITERATURE 1746-1939 (^)                    |
| ENGL 2360                              | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)                 |
| ENGL 2450                              | AMERICAN LITERATURE I (** ^)                                 |
| ENGL 2460                              | AMERICAN LITERATURE II (** ^)                                |
| ENGL 2470                              | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                  |
| ENGL 2490                              | LATINO/A LITERATURE (** ^)                                   |
| ENGL 2500                              | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^) |
| ENGL 2510                              | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)   |
| ENGL 2520                              | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                    |
| WRWS 2000                              | SPECIAL STUDIES IN WRITING (^)                               |
| <b>Minimun of 3 credits from below</b> |  |
| ENGL 2310                              | INTRODUCTION TO BRITISH LITERATURE I (** ^)                  |
| ENGL 2320                              | INTRODUCTION TO BRITISH LITERATURE II (** ^)                 |
| ENGL 2360                              | AFRICAN AMERICAN LITERATURE 1940-PRESENT (^)                 |
| ENGL 2450                              | AMERICAN LITERATURE I (** ^)                                 |
| ENGL 2460                              | AMERICAN LITERATURE II (** ^)                                |
| ENGL 2470                              | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                  |
| ENGL 2490                              | LATINO/A LITERATURE (** ^)                                   |
| ENGL 2500                              | LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (** ^) |
| ENGL 2510                              | GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (** ^)   |
| ENGL 2520                              | GLOBAL EXPLORATIONS: THE MODERN WORLD (^)                    |
| <b>Upper Level Literature</b>          |  |
| ENGL 4340                              | SHAKESPEARE (^)  |
| <b>Select Five Courses</b>             |  |
| ENGL 3000                              | SPECIAL TOPICS IN ENGLISH                                    |
| FREN 3050                              | INTRODUCTION TO TRANSLATION (^)                              |
| FREN 4150                              | CONTEMPORARY FRENCH NOVEL (^)                                |
| FREN 4170                              | CONTEMPORARY FRENCH THEATER (^)                              |
| FREN 4860                              | MODERN FRENCH WOMEN AUTHORS (^)                              |
| FREN 4900                              | INDEPENDENT STUDY (^)  |
| GERM 4150                              | INTRODUCTION TO GERMAN LITERATURE (^)                        |
| GERM 4960                              | PRO-SEMINAR: SOCIETY AND CULTURE (^)                         |
| SPAN 3170                              | SURVEY OF SPANISH LITERATURE I (^)                           |
| SPAN 3180                              | INTRODUCTION TO SPANISH LITERATURE (^)                       |
| SPAN 4900                              | INDEPENDENT STUDY (^)  |
| SPAN 4960                              | PRO-SEMINAR: CULTURE AND SOCIETY (^)                         |

|           |  |
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| THEA 3700 | THEATRE HISTORY AND LITERATURE: 1960-PRESENT (^)           |
| THEA 3710 | THEATRE HISTORY AND LITERATURE:MODERN / 1800-1960 (^)      |
| THEA 4050 | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (^)         |
| THEA 4780 | THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (^)      |
| THEA 4790 | THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (^)  |
| WRWS 3010 | LITERARY MAGAZINE: STAFF & RESEARCH (^ if not taken above) |

**College Level Foreign Language 8-10**

High School Foreign Language cannot be used

**Concentration in Screenwriting - 32 Hours Required 32**
**Writing Core**

|              |   |
|--------------|---|
| WRWS 2050    | FUNDAMENTALS OF FICTION WRITING (^)                   |
| WRWS 2100    | BASIC FICTION STUDIO (^)                              |
| WRWS 2600    | BASIC SCREENWRITING AND TELEVISION WRITING STUDIO (^) |
| or WRWS 2060 | FUNDAMENTALS OF POETRY WRITING                        |
| WRWS 2200    | BASIC POETRY STUDIO (^)                               |
| WRWS 2600    | BASIC SCREENWRITING AND TELEVISION WRITING STUDIO (^) |
| or WRWS 2050 | FUNDAMENTALS OF FICTION WRITING                       |
| WRWS 2300    | BASIC CREATIVE NONFICTION STUDIO (^)                  |
| WRWS 2600    | BASIC SCREENWRITING AND TELEVISION WRITING STUDIO (^) |

**Concentration Required Courses**

|           |                                       |
|-----------|---------------------------------------|
| WRWS 3600 | INTERMEDIATE SCREENWRITING STUDIO (^) |
| WRWS 4600 | ADVANCED SCREENWRITING STUDIO I (^)   |
| WRWS 4610 | ADVANCED SCREENWRITING STUDIO II (^)  |

**Select three courses**

|           |  |
|-----------|--|
| WRWS 3000 | SELECTED TOPICS IN WRITING (^)                     |
| THEA 4020 | ADVANCED PROJECTS IN THEATRE (^)                   |
| JMC 3320  | VIDEO STUDIO PRODUCTION (^)                        |
| JMC 4380  | FILM THEORY AND CRITICISM (^)                      |
| JMC 4810  | DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS (^) |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Creative Writing Minor

### Creative Writing Minor Requirements

Select an Emphasis.

| Code                       | Title                           | Credits   |
|----------------------------|---------------------------------|-----------|
| <b>Emphasis in Fiction</b> |                                 | <b>18</b> |
| WRWS 2050                  | FUNDAMENTALS OF FICTION WRITING |           |
| WRWS 2060                  | FUNDAMENTALS OF POETRY WRITING  |           |
| WRWS 2100                  | BASIC FICTION STUDIO            |           |

|   |   |                |
|---|---|----------------|
| WRWS 3100                               | INTERMEDIATE FICTION STUDIO             |                |
| WRWS 4100                               | ADVANCED FICTION STUDIO I               |                |
| <b>Code</b>                             | <b>Title</b>                            | <b>Credits</b> |
| <b>Emphasis in Poetry</b>               |   | <b>18</b>      |
| WRWS 2050                               | FUNDAMENTALS OF FICTION WRITING         |                |
| WRWS 2060                               | FUNDAMENTALS OF POETRY WRITING          |                |
| WRWS 2200                               | BASIC POETRY STUDIO                     |                |
| WRWS 3200                               | INTERMEDIATE POETRY STUDIO              |                |
| WRWS 4200                               | ADVANCED POETRY STUDIO I                |                |
| <b>Code</b>                             | <b>Title</b>                            | <b>Credits</b> |
| <b>Emphasis in Creative Non-Fiction</b> |   | <b>18</b>      |
| WRWS 2050                               | FUNDAMENTALS OF FICTION WRITING         |                |
| or WRWS 2060                            | FUNDAMENTALS OF POETRY WRITING          |                |
| WRWS 2300                               | BASIC CREATIVE NONFICTION STUDIO        |                |
| WRWS 3300                               | INTERMEDIATE CREATIVE NONFICTION STUDIO |                |
| WRWS 4300                               | ADVANCED CREATIVE NONFICTION STUDIO     |                |
| ENGL 4860                               | THE MODERN FAMILIAR ESSAY               |                |
| or JMC 3400                             | FEATURE AND OPINION WRITING             |                |

## Editing & Publishing Minor

### Editing & Publishing Minor Requirements

|   |  |                |
|---|--|----------------|
| <b>Code</b>   | <b>Title</b>   | <b>Credits</b> |
| WRWS 3010   | LITERARY MAGAZINE: STAFF & RESEARCH                        | 3              |
| WRWS 3020   | THE BUSINESS OF WRITING & PUBLISHING                       | 3              |
| ART 2200  | TYPOGRAPHY   | 3              |
| <b>Select 9 credits from the following courses to build one focus or to gain knowledge across focuses</b> |  | <b>9</b>       |
| Must select one 3000 level or higher course from focuses below.   |  |                |
| <b>FOCUS ONE: PUBLISHING WRITER</b>   |  |                |
| WRWS 1500   | INTRODUCTION TO CREATIVE WRITING                           |                |
| WRWS 3000   | SELECTED TOPICS IN WRITING (Writing the Graphic Narrative) |                |
| ART 3760  | RESEARCH, WRITING, AND COMMUNICATION FOR CAREERS IN ART    |                |
| ENGL 3170   | SUCCESSFUL FREELANCE JOURNAL WRITING                       |                |
| JMC 3400  | FEATURE AND OPINION WRITING                                |                |
| WRWS 3990   | INDEPENDENT STUDIES (approved on individual basis)         |                |
| <b>FOCUS TWO: LITERARY EDITOR</b>   |  |                |
| WRWS 4010   | LITERARY MAGAZINE: EDITING & PRODUCTION                    |                |
| JMC 2100  | MEDIA WRITING  |                |
| JMC 2200  | MEDIA PRODUCTION PRINCIPLES                                |                |
| JMC 4970  | INTERNSHIP EXPERIENCE (approved on individual basis)       |                |
| ENGL 4800   | ENGLISH INTERNSHIP (approved on individual basis)          |                |
| ENGL 4940   | PUBLISHING THE LINDEN REVIEW                               |                |

| FOCUS THREE: LAYOUT, DESIGN, & PROMOTION |  |    |
|--|--|----|
| ART 2300                                 | WEB DESIGN   |    |
| ART 2920                                 | ILLUSTRATION 1: INTRODUCTION TO ILLUSTRATION           |    |
| ART 3130                                 | GRAPHIC DESIGN 1                                       |    |
| ART 3520                                 | PHOTOGRAPHIC DIGITAL PRINTMAKING                       |    |
| ART 4530                                 | ART INTERNSHIP (approved on individual basis)          |    |
| FOCUS FOUR: BOOK ARTS                    |  |    |
| ART 3200                                 | LETTERPRESS 1  |    |
| ART 3230                                 | BOOK STRUCTURES  |    |
| ART 3510                                 | ELEMENTARY PRINTMAKING                                 |    |
| ART 4220                                 | ILLUSTRATION 3: SEQUENTIAL IMAGES                      |    |
| ART 4530                                 | ART INTERNSHIP   |    |
| FOCUS FIVE: TECHNICAL EDITOR             |  |    |
| ENGL 3980                                | TECHNICAL WRITING ACROSS THE DISCIPLINES               |    |
| ENGL 4810                                | DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS         |    |
| ENGL 4870                                | TECHNICAL EDITING                                      |    |
| JMC 4250                                 | STRATEGIC WRITING FOR PUBLIC RELATIONS AND ADVERTISING |    |
| ART 4950                                 | ART CRITICISM  |    |
| Total Credits                            |  | 18 |

## Screenwriting Minor

### Screenwriting Minor Requirements

Screenwriting minor purpose: to meet students' needs to prepare for the job market. Also, the Screenwriting minor offers students the option of enhancing their major field of study with a minor that offers an introduction to the craft of screenwriting and an entrée to a career in film.

|   |   |                |
|---|---|----------------|
| <b>Code</b>   | <b>Title</b>                                      | <b>Credits</b> |
| <b>Required Courses:</b>  |   | <b>15</b>      |
| WRWS 2050   | FUNDAMENTALS OF FICTION WRITING                   |                |
| or WRWS 2060  | FUNDAMENTALS OF POETRY WRITING                    |                |
| WRWS 2600   | BASIC SCREENWRITING AND TELEVISION WRITING STUDIO |                |
| WRWS 3600   | INTERMEDIATE SCREENWRITING STUDIO                 |                |
| WRWS 4600   | ADVANCED SCREENWRITING STUDIO I                   |                |
| <b>Select one elective from the following list or other film-related courses from other departments, per approval of WRWS academic advisor:</b> |   | <b>3</b>       |
| WRWS 3000   | SELECTED TOPICS IN WRITING                        |                |
| THEA 3000   | SPECIAL TOPICS IN THEATRE (Script Analysis )      |                |
| THEA 3300   | ACTING II   |                |
| THEA 4020   | ADVANCED PROJECTS IN THEATRE                      |                |
| THEA 4050   | SHAKESPEARE ON FILM: THE ART OF INTERPRETATION    |                |
| JMC 3320  | VIDEO STUDIO PRODUCTION                           |                |
| JMC 4380  | FILM THEORY AND CRITICISM                         |                |
| JMC 4810  | DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS    |                |



ART 3140 COMPUTER-GENERATED IMAGERY (CGI)  
I: INTERACTIVE 3D VIRTUAL SPACES

# College of Education, Health, and Human Sciences

## Mission/Vision

The College of Education, Health, and Human Science's philosophy and purpose are grounded in the central principles identified by the faculty for preparing graduates who are dedicated practitioners, reflective scholars, and responsible citizens. The outcomes/goals related to the principles focus on the knowledge, skills, and disposition espoused by the faculty and are built on the fundamental belief that all children can learn. The full text of the conceptual framework may be found here (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/>)

Please note the information contained in this portion of the catalog is general information for the College of Education, Health, and Human Sciences. For more specific details please consult information specific to your intended department.

## General Information

### Overview of degree programs

The College of Education, Health, and Human Sciences is comprised of six academic units; the Departments of Counseling; Educational Leadership; Special Education and Communication Disorders; Teacher Education; Biomechanics, and Health and Kinesiology. Through its departments and school, the college seeks to prepare individuals for careers in a variety of fields including teaching, educational administration, counseling, public health, athletic training, exercise science, library science, special education, sign language interpreting, biomechanics, early childhood inclusive education and communication disorders. The college offers programs at the undergraduate and graduate levels. This catalog describes only those programs at the undergraduate level.

The college offers the following undergraduate degrees: Bachelor of Science in Education, Bachelor of Science in Biomechanics, Bachelor of Science in Kinesiology, and Bachelor of Science in Public Health. Some programs must be completed in conjunction with one (or more) other programs. Educator preparation programs lead to state certification. Additionally, the college offers a number of special course sequences which do not result in a degree but which result in added teaching endorsements.

All students in a degree program in the college must meet the university general education requirements. Additional information on these requirements can be found at the University General Education [website](https://www.unomaha.edu/general-education/) (<https://www.unomaha.edu/general-education/>). Please contact an academic advisor for recommended choices for the major.

Certain majors/programs in the College of Education, Health, and Human Sciences require specifically related content coursework. For further information, and to view the requirements for specific majors/programs, visit the college website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/>) or contact an academic advisor.

## Accreditation Information

The following programs in the College of Education, Health, and Human Sciences are accredited by:

| Major             | Degree | Accreditation Body   |
|-------------------|--------|--|
| Athletic Training | MA     | Commission on Accreditation of Athletic Training Education (CAATE) |

|   |                |  |
|---|----------------|--|
| Counseling:<br>Concentration in<br>Community Counseling   | MA MS          | Council for Accreditation of Counseling and Related Educational Programs (CACREP)  |
| Counseling:<br>Concentration in School<br>Counseling K-12 | MA MS          | - Council for Accreditation of Counseling and Related Educational Programs (CACREP) - Nebraska Department of Education   |
| Educational Leadership                                    | MS Ed.S. Ed.D  | Nebraska Department of Education   |
| Early Childhood<br>Inclusive                              | BSED           | - Association for Advancing Quality in Educator Preparation (AAQEP) - Nebraska Department of Education   |
| Elementary Education                                      | BSED           | - Association for Advancing Quality in Educator Preparation (AAQEP) - Nebraska Department of Education   |
| Public Health   | BS             | Council on Education for Public Health (CEPH)  |
| School Library  | MS/Endorsement | - Nebraska Department of Education and National Recognition by the American Library Association (ALA) and the American Association of School Librarians (AASL) |
| Secondary Education                                       | BSED           | - Association for Advancing Quality in Educator Preparation (AAQEP) - Nebraska Department of Education   |
| Special Education   | BSED           | - Association for Advancing Quality in Educator Preparation (AAQEP) - Nebraska Department of Education   |
| Speech-Language<br>Pathology                              | MS             | - Council of Academic Accreditation of the American Speech-Language-Hearing Association (ASHA) - Nebraska Department of Education                              |

All preparation programs within the college adhere to the national standards promulgated by their respective professional organizations.

## Contact Information

College of Education, Health, and Human Sciences  
Roskens Hall  
6001 Dodge Street  
Omaha, NE 68182

Dean's Office RH – 402.554.2719

Office of Academic Advising and Field Experiences- 402.554.2717  
Teacher Certification – 402.554.2718  
Health and Kinesiology – 402.554.2670  
Special Education and Communication Disorders – 402.554.3355  
Teacher Education – 402.554.3666

Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/>)

## Admission Requirements

Prospective students may apply for admission to the college by indicating their preference on the University Application for Admission.

Complete admission files (application and additional materials) must be received by the Undergraduate Admission Application deadline dates, which are one week before the start of classes for each term. See UNO Admissions Application Deadline information (p. 23) for specific dates.

Admission to the College of Education, Health, and Human Sciences does not guarantee admission to a specific program. Certain programs, such as educator preparation, require a separate application and admission process. Specific admission requirements for programs within the College of Education, Health, and Human Sciences are noted in the departments'/school's section of this catalog or on the college website.

## Academic Requirements for the College Degrees

### Number of Hours to Graduate

The bachelor's degrees (BS in Education, BS in Biomechanics, BS in Kinesiology, and BS in Public Health) require a minimum of 120 credit hours; 30 of the last 36 hours must be taken in residence. University General Education requirements apply to all programs. The College of Education, Health, and Human Sciences will accept toward a degree program those courses for which credit by examination is given (up to 30 hours) and recommended by the respective departments within the college of the university. Up to eight credit hours of elective credit may be allowed for military service.

Program specifications and expectations are noted in the departments'/school's sections of this catalog or on the college website (<https://www.unomaha.edu/college-of-education/>). Candidates in educator preparation programs must also complete all requirements in the professional education sequence, and the requirements for their teaching certification and endorsements/emphasis area(s). Students in non-educator preparation programs must complete all the requirements of the particular program.

### Minimum GPA/Additional Requirements

Students in the College of Education, Health, and Human Sciences must maintain a 2.5 cumulative grade point average. This GPA is calculated based on all courses taken in the University of Nebraska system (UNL, UNO, UNK). The cumulative GPA determines eligibility for professional coursework.

Individual major programs within the College of Education, Health, and Human Sciences can require students to maintain higher GPA standards to remain in good standing. In addition, course prerequisites may require higher GPA to enter upper-level coursework.

### College Requirements, BA/BS Requirements

For specific program requirements, see the department/school section of this catalog or the college website.

## Transfer Credit Policy

Students may transfer into the college from other institutions by completing the application process and meeting the minimum cumulative grade point average GPA of 2.5 (on a 4.0 scale).

Transfer credit from outside the NU system can be applied to course requirements, but outside credit does not affect the NU system GPA or a student's good standing in the college. Transfer GPA is only considered before a student has earned 12 or more hours in the NU system. In this time period, students may be permitted into courses or accepted to professional programs based on their transfer cumulative GPA. Once students complete 12 credits or more in the NU system, the NU system GPA will be used to measure quality of work.

Official transcripts must be sent to the UNO Office of Admissions from each previous college or university attended whether credit was earned or not. Hand-carried or student-submitted transcripts are not acceptable. Only 64 credit hours can be transferred from an approved 2-year institution.

Only credits earned at accredited institutions will be accepted by the college. In accordance with University policies, the college will accept, for transfer, grades of "C-" or better for University General Education courses. Credits earned at an institution which is part of the Nebraska Network of Community Colleges will be accepted by the college provided the grades are the equivalent of a "C-" or better for University General Education courses. Credits from institutions seeking regional accreditation (but not yet accredited) may be accepted after 30 hours of work are satisfactorily completed at UNO. Acceptance of any transfer credits by the college does not ensure application to a particular program or endorsement.

Determination of applicability is the responsibility of the specific department/school. Departments within the college and programs will determine applicability of transfer credits and of grades to meet specific requirements. The University accepts "C-" grades, but programs may have a higher standard of applicability of transfer credits. For specific program requirements, see the department/school section of this catalog or the college website.

Individuals with degrees in education, transferring to the College of Education, Health, and Human Sciences for teacher certification only, must successfully complete all program requirements prior to clinical practice. (The program coursework for any endorsement must total a minimum of 12 hours, six of which are in the major area.)

Special Note: Transfer Admission from Colleges within UNO

Students transferring from another college on the UNO campus to the College of Education, Health, and Human Sciences must meet the minimum cumulative GPA requirement of 2.5.

### Unacceptable Credits

Professional education courses will be accepted only from institutions which are accredited for teacher education by the national, state and/or regional accrediting agency and those classes are good for a 10 year period. Education courses will not be accepted from two-year institutions or other institutions unless the college has a specific articulation agreement with that institution or the course has received departmental approval.

**Retroactive Credit Policy >> (p. 33)****Advanced Placement Credits >> (p. 33)****Military Credit >> (p. 33)****IB Credit >> (p. 33)****Placement Exams and Credit by Department Policies/Practices >> (p. 63)****Residency Requirement**

The bachelor's degrees (BS in Education, BS in Biomechanics, BS in Kinesiology, and BS in Public Health) require a minimum of 120 credit hours; 30 of the last 36 hours must be taken in residence.

**Quality of Work**

The following quality of work standards apply to all individuals in the college.

- Maintain a cumulative GPA of 2.5 or higher for admission to the College of Education, Health, and Human Sciences. For specific program requirements, see the department/school section of this catalog or the college website.
- Maintain a 2.5 cumulative grade point average to remain in good standing with the College of Education, Health, and Human Sciences. This GPA is calculated based on all courses taken in the University of Nebraska system (UNL, UNO, UNK). The cumulative GPA determines eligibility for professional coursework.
- Individual major programs within the College of Education, Health, and Human Sciences can require students to maintain higher GPA standards to remain in good standing. In addition, course prerequisites may require a higher GPA to enter upper-level coursework. For specific program requirements, see the department/school section of this catalog or the college website.
- Individuals are expected to progress steadily toward the degree. Majors will complete work for the degree according to the requirements of the catalog of the year in which they entered the college. For interruptions in enrollment of more than one semester, individuals will be held to the requirements of the catalog of the year when they re-enter the college.

NOTE: Please see departments'/school's sections for information on programs, lists of courses, and additional academic performance requirements

**General Education courses**

Per General Education policy, College of Education, Health, and Human Sciences general education courses meeting Humanities/ Fine Arts, MavEd Humanities, MavEd Arts, Social Science, MavEd Social Science, MavEd Natural/ Physical Science or Natural/ Physical Science requirements are exempt from the repeat policy and students do not need to meet the minimum CEHHS 2.5 NU GPA requirement to take courses filling these distribution requirements.

Courses that meet only U.S., Global, MavEd Cultural Knowledge, or MavEd Civic Knowledge and Engagement requirements may enforce prerequisites of the program or department.

For undergraduate CEHHS courses that have no listed pre-requisite, any UNO student is eligible to enroll.

A minimum grade of "C-" must be earned in all coursework in the university general education requirements to be applied to a College of Education, Health, and Human Sciences degree.

**Good Academic Standing Policy >> (p. 37)****Credit/No Credit (CR/NC) Grades >> (p. 37)****Completion of Incomplete Grade**

Under certain circumstances, a student may be eligible for an "I" grade in a course. Please see information in the grades information section of the [catalog \(p. 70\)](#).

Questions about the procedures to follow in the college should be directed to the respective department chair or school director.

Students who do receive a grade of "I" in a course with a department prefix of BMCH, CDIS, COUN, HEKI, KINS, PHHB, SPED, or TED may not enroll in any course for which the "I" course is a prerequisite until the "I" grade has been removed and replaced with a passing grade.

**Repeatable Grades/Courses**

For a general education course offered by the College of Education, Health, and Human Sciences, any student may repeat this course.

A College of Education, Health, and Human Sciences student in an educator preparation program, non-certification concentration, Library Science, Communication Disorders or Sign Language Interpreting concentration who receives a grade below "C" or a "W" (Withdraw) in any undergraduate course with a department prefix of BMCH, CDIS, COUN, HEKI, KINS, PHHB, SPED, or TED may re-enroll in that course for one additional time for a total of two attempts. For exceptions to this rule, please review program-specific requirements.

A College of Education, Health, and Human Sciences student in Biomechanics, Kinesiology, or Public Health who receives a grade below "C-" or a "W" (Withdraw) in any undergraduate course with a department prefix of BMCH, CDIS, COUN, HEKI, KINS, PHHB, SPED, or TED may re-enroll in that course for one additional time for a total of two attempts. For exceptions to this rule, please review program-specific requirements.

A candidate who is removed from, withdraws from, or receives a grade of "I" in field, internship, clinical, practicum, or clinical practice experience, regardless of reason, must appeal to the Academic Review Committee (ARC) to be allowed to repeat the experience. If the appeal is granted, the candidate must reapply for a placement. A candidate may repeat such experiences only once.

See also "Completion of Incomplete Grade" for additional information.

**Overload Appeal Guidelines**

Student appeals to take overload hours in any semester must be directed to the Associate Dean of the college. An overload is defined as anything above 18 credit hours in the fall or spring semester. The appeal request may be submitted in writing or via UNO e-mail address. The appeal request must contain the following information.

- Student name.
- Semester for which the overload is requested.
- List of all courses (arranged by course number, title, and number of credit hours) to be taken in that semester.
- Current, cumulative GPA.

- Reasons for requesting the overload.

*Please note:*

This is a formal process. Appropriate language and “business letter” format should be used in the appeal.

Failure to provide the required information will delay the process and may jeopardize your ability to enroll in desired courses.

All responses will be sent through your UNO e-mail address.

Dr. Jason Coleman, Associate Dean  
jdcoleman@unomaha.edu  
Roskens Hall 211

## Appeal Process >> (p. 37)

### Grade Appeal Policy

Individuals who believe that their grade in a particular course does not properly reflect their performance, or that the instructor acted in an arbitrary or capricious manner in determining the grade, should first contact the instructor to determine the rationale for the grade or if there was an error in reporting. Consultation with the instructor should take place before taking any formal action in regard to a grade appeal.

After the instructor has provided the rationale for the grade in question and has indicated that no error in reporting was made, the individual may then wish to petition the department/school for reconsideration. In such instances, the student should contact the department chair/school director to obtain information on the procedures to follow in requesting an appeal at the department/school level.

If an individual believes that the department/school action did not comply with the due process procedures or did not provide legitimate relief, he/she may petition the Student Affairs Committee of the College of Education, Health, and Human Sciences. This committee is the appellate body for grade appeals after a student has received a decision at the department/school level. Students wishing to appeal a grade to the Student Affairs Committee should contact the Dean's Office (Roskens Hall 211) to obtain the procedures to follow in filing an appeal.

## Academic Amnesty

Academic Amnesty provides relief from a poor academic record acquired within the University of Nebraska system by excluding substandard coursework with a final grade of “D” or “F” from a student's cumulative grade point average (GPA) calculation. Academic Amnesty will not remove course(s) or grade(s) from the transcript but once granted, will not count as part of the overall GPA.

### Eligibility:

To be eligible for Academic Amnesty, students must:

- Have been out of the Nebraska system for at least one calendar year (12-month period).
- Have substandard coursework (“F” or “D” grades) earned within the University of Nebraska system (UNO, UNL, UNK, UNMC) prior to the year out (substandard grades earned after the year out will not be included in the Academic Amnesty contract).
- Be admitted as a degree-seeking student at the University of Nebraska.

### Amnesty Requirements:

- Academic Amnesty will begin with the first course(s) taken upon return to UNO.

- Students may apply for Academic Amnesty at any time after taking the one-year break.
- After returning from the one-year break, demonstrate academic success in new UNO coursework.  
Academic success may be demonstrated by one of the following:
  - Completing at least 12 semester hours (simultaneous or sequential) with a minimum of 3.0 cumulative GPA,
  - Completing at least 24 semester hours (simultaneous or sequential) with a minimum of 2.5 cumulative GPA.
- Students must maintain continuous enrollment (at least six (6) semester hours completed within any 12-month period).
- Students will work with their academic advisor to select the coursework to be amnestied.
- Students must inform an academic advisor when the Academic Amnesty requirements are met.

### Notes:

- All amnestied coursework will remain on the student's academic record (transcript); however, the courses will not be included in calculation of the student's grade point average. Courses will be annotated “Academic Amnesty Excluded from GPA” on the transcript.
- Once Academic Amnesty is granted, students will not be eligible for honors at graduation. Students are still eligible for Dean's List and Chancellor's List honors.
- While demonstrating academic success, no changes are made to the student's academic record. If a student's cumulative GPA is still below standard, the students will continue to be reported as “continued on probation.” Should the student revert to substandard academic performance while working on Academic Amnesty, the student can still be suspended. Academic Amnesty is intended to provide relief from the past without providing immunity from future substandard academic performance.
- Students must still meet all university and college requirements to graduate.

## Academic Probation and Suspension

Students whose GPA fall below 2.5 on a 4.0 scale will be placed on academic probation with the College of Education, Health, and Human Sciences for one semester. During the probationary semester, students may enroll in a voluntary support program and make efforts to raise the cumulative GPA.

During a probation semester, CEHHS students are allowed to repeat College of Education, Health, and Human Sciences courses in which they did not earn a passing grade (see program requirements for minimum passing grade). Students who want to repeat a course with field or practicum requirements must appeal and/or seek permission in accordance with departmental guidelines to be allowed to repeat the experience.

Students are encouraged to repeat courses in which they earned below the minimum passing grade to return to good standing in the College of Education, Health, and Human Sciences. Per Office of the University Registrar policy, when an undergraduate course is repeated, only the most recent grade will be calculated into the GPA.

Students whose cumulative GPA remains below the 2.5 minimum for the second consecutive semester are ineligible to remain in the College of Education, Health, and Human Sciences and must change their major and college. Such students may re-enter the College of Education, Health, and Human Sciences should they repair their cumulative GPA to the standard required for their program.

Students whose GPAs fall below 2.0 on a 4.0 scale may be subject to suspension based on the Office of the University Registrar's posted

guidelines. (<https://www.unomaha.edu/registrar/faculty-and-staff/additional-information/probation-suspension-deans-list.php>)

## Reinstatement Policy Following Academic Suspension >> (p. 37)

## Academic Advising

Working in partnership with academic advisors is key to student success. Programs in the College of Education, Health, and Human Sciences are carefully sequenced. To move through these programs in a timely manner, students must plan carefully and regularly consult their advisors. In addition to program requirements, academic advisors assist students in exploring and defining an academic career, life goals, and pathways for success. Advisors will assist in developing problem-solving and decision-making skills through a collaborative and process-oriented advising approach. Advisors provide information about university requirements; discuss career goals, graduate or professional programs, or licensure requirements; and refer to campus resources that improve students' academic experiences. Students are expected to meet with their advising partners every semester.

- The Roskens Hall 204 academic advising office serves Elementary, Secondary, Early Childhood Inclusive, Special Education, Library Science, and Communication Disorders majors.
- The Health and Kinesiology advising office is located in 207 in the H&K building and serves pre-Athletic Training, Biomechanics, Kinesiology, and Public Health majors as well as students in exploratory Health & Kinesiology.

## Mission of College of Education, Health, and Human Sciences Academic Advising

Our mission is to empower students to explore and achieve their educational goals through intentional partnerships.

## Vision of College of Education, Health, and Human Sciences Academic Advising

College of Education, Health, and Human Sciences advisors help students make the most of their education. We support the personal and professional growth of the whole student with the goal of promoting persistence and success.

## Values of College of Education, Health, and Human Sciences Academic Advising

As advisors, we value engaged student learning. We believe high expectations and consistent support are key to helping emerging professionals navigate the university curriculum. We work in our college and on our campus to advocate for student success.

## Advising Holds >> (p. 30)

## Student Holds >> (p. 30)

## Senior Check

Senior checks are completed in conjunction with academic advisors. For specific program requirements, see the department/school section of this catalog or the college website.

## Application for Degree

All students graduating from UNO must file an "Application for Degree" with the Records and Registration Office and pay the required fee at the beginning of the semester in which they will graduate and not later than the date listed in the university calendar. Failure to file for the degree by this deadline may postpone a student's graduation date. Applications are available online via MavLink. After applying for the degree, students should visit the UNO Bookstore as soon as possible to order the cap and gown and graduation announcements. For more information click [here](#)

(<https://www.unomaha.edu/registrar/students/graduation-and-diplomas/graduation-general-information.php>).

## Biomechanics

The mission of the Division of Biomechanics and Research Development is to serve not only the University of Nebraska at Omaha but the entire University of Nebraska system and the state of Nebraska by (a) educating and developing a dynamic workforce to meet our scientific needs at a national and international level and by (b) enhancing economic growth through development of biotechnology and biomechanical intellectual property produced by students and faculty performing innovative research in the multiple laboratories of the Biomechanics Research Building. The research performed in the Division will provide a new understanding of the dynamic aspects of human and animal biomechanics via multidisciplinary approaches. In particular, we aim to achieve the following specific objectives:

1. Quantitatively characterize and improve our understanding of the complex biomechanical systems in healthy and abnormal states via innovative analyses.
2. Educate and train students, basic scientists, and clinicians, so that they may apply concepts of biomechanics in their careers as educators and researchers.
3. Develop new diagnostic and prognostic tests and related biomechanical technology for a variety of movement and cardiovascular disorders and aging.
4. Provide biomechanically related services to interested parties and University and community partners.
5. Participate in community outreach activities that involve biomechanically related educational opportunities.

Biomechanics is the study of forces that act on the body and the effects they produce. It is an intersection of biology, physiology, anatomy, physics, mathematics, and chemistry. Biomechanics is a rapidly growing discipline that has many applications in robotics, forensics, ergonomics, clinical assessment and rehabilitation of movement disorders, design of prosthetics, sports performance, sports equipment design, safety, etc.

The B.S. in Biomechanics is an excellent choice for students planning to a) pursue graduate education and careers in research, b) work in biomechanically related industry and hospital laboratories, and c) pursue graduate education in professional schools for physical therapy, occupational therapy, medicine and other science-based programs.

The Minor in Biomechanics is ideal for those students who have a major outside of Biomechanics and would benefit from learning the basic principles of Biomechanics.

## Other Information

Once students are admitted to the Bachelor of Science in Biomechanics they will be in the College of Education, Health, and Human Sciences and will be required to maintain a cumulative college GPA of 3.0/4.0 scale and grades of "C-" or better in the core courses to remain in good standing in the College of Education, Health, and Human Sciences.

The department highly encourages students to engage in undergraduate research with a faculty mentor. A list of Biomechanics faculty can be found on our website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/biomechanics-core-facility/about-us/directory/>). There are also many undergraduate volunteer and student worker opportunities available in the Department.

## Fast Track Program

The Department of Biomechanics has developed a Fast Track program for highly qualified and motivated students providing the opportunity to



complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing a BS in Biomechanics desiring to pursue a MS in Biomechanics.
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - Applicants for this program are highly encouraged to pursue research opportunities in the Department of Biomechanics or comparable programs.
  - The admit term must be after the completion term of the undergraduate degree.

All 8000 level BMCH courses are eligible for students part of the Fast Track program.

## Contact Information

Department of Biomechanics  
Biomechanics Research Building

402.554.3228

unobiomechanics@unomaha.edu

**Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/biomechanics-core-facility/academic-programs/bsb.php>)**

## Degrees Offered

- Biomechanics, Bachelor of Science (p. 517)

## Minors Offered

- Biomechanics Minor (p. 519)
- Sports Biomechanics Minor (p. 519)

Biomechanics is the study of the mechanical laws that create human and animal motion. Biomechanics applies principles from engineering, mechanics, physics, and biology to study human and animal movement. Biomechanics majors have the ability to pursue a wide variety of careers. These careers range from being technologically centered to human health centered.

## Potential career opportunities/settings:

- Physical and Occupational Therapy\*
  - Physical Therapist
  - Occupational Therapist
- Prosthetics and Orthotics\*
  - Prosthetist
- Medical Device Design
  - Research Scientist
- Clinical Research
  - Gait Analysis Biomechanist
- Robotics
  - Field Application Engineer
  - Robotics Technician
- Ergonomics
  - Ergonomist
- Medicine\* (Orthopedics, Cardiology, Neurology)
  - Orthopedic Surgery
  - Sports Medicine
- Athletic Training\*
  - Athletic Trainer
- Sports Performance
  - Footwear Material Developer
  - Footwear Research and Development

\*Requires graduate study

## Biomechanics, Bachelor of Science

## Biomechanics, Bachelor of Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |



Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 98-99 Hours**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following 86-87**

BIOL 1450 BIOLOGY I (\*\* ^)

BIOL 1750 BIOLOGY II (^)

BMCH 2400 HUMAN PHYSIOLOGY &amp; ANATOMY I (\*\*)

BMCH 2500 HUMAN PHYSIOLOGY AND ANATOMY II (^)

CHEM 1180 GENERAL CHEMISTRY I (\*\* ^)

CHEM 1184 GENERAL CHEMISTRY I LABORATORY (\*\* ^)

CHEM 1190 GENERAL CHEMISTRY II (^)

CHEM 1194 GENERAL CHEMISTRY II LABORATORY (^)

PHYS 2110 GENERAL PHYSICS I - CALCULUS LEVEL (\*\* ^)

PHYS 1154 GENERAL PHYSICS LABORATORY I (\*\* ^)

PHYS 2120 GENERAL PHYSICS II-CALCULUS LEVEL (^)

PHYS 1164 GENERAL PHYSICS LABORATORY II (^)

MATH 1300 COLLEGE ALGEBRA WITH SUPPORT (\*\*)

or MATH 1220 COLLEGE ALGEBRA

MATH 1330 TRIGONOMETRY (^)

MATH 1950 CALCULUS I (^)

MATH 1960 CALCULUS II (^)

PSYC 1010 INTRODUCTION TO PSYCHOLOGY I (\*\*)

PSYC 4440 ABNORMAL PSYCHOLOGY (^)

BMCH 1000 INTRODUCTION TO BIOMECHANICS (\*\*)

BMCH 1100 ETHICS OF SCIENTIFIC RESEARCH (\*\*)

BMCH 2200 ANALYTICAL METHODS IN BIOMECHANICS

BMCH 3000 BIOMECHANICAL STATICS &amp; DYNAMICS (^)

BMCH 4630 BIOMECHANICS (^)

BMCH 4200 METHODS IN BIOMECHANICS I (^)

BMCH 4210 METHODS IN BIOMECHANICS II (^)

BMCH 4980 CAPSTONE DESIGN IN BIOMECHANICS I (^)

BMCH 4990 CAPSTONE DESIGN IN BIOMECHANICS II (^)

**Select 1 of the following 3**

PSYC 3130 STATISTICS FOR THE BEHAVIORAL SCIENCES (^)

STAT 1530 ELEMENTARY STATISTICS (\*\* ^)

STAT 3800 APPLIED ENGINEERING PROBABILITY AND STATISTICS (^)

HEKI 2100 STATISTICS IN HEALTH AND KINESIOLOGY (^)

**Choose 3 of the following 9**

BMCH 4000 BIOMATERIALS

BMCH 4100 BIOINSPIRED ROBOTICS

BMCH 4640 ORTHOPEDIC BIOMECHANICS (^)

BMCH 4650 NEUROMECHANICS OF HUMAN MOVEMENT (^)

BMCH 4660 CLINICAL IMMERSION FOR RESEARCH AND DESIGN (^)

BMCH 4670 INTRODUCTION TO MECHANICS OF BIOMATERIALS (^)

BMCH 4680 SPORTS BIOMECHANICS (^)

BMCH 4690 CARDIOVASCULAR BIOMECHANICS (^)

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Biomechanics, Bachelor of Science Four Year Plan

**Freshman**

| Fall  |                              | Credits   |
|---|------------------------------|-----------|
| BIOL 1450                                     | BIOLOGY I                    | 5         |
| BMCH 1000                                     | INTRODUCTION TO BIOMECHANICS | 3         |
| MATH 1220                                     | COLLEGE ALGEBRA <sup>1</sup> | 3         |
| Attend Durango Days; other campus events      |                              |           |
| Advising appointment for spring: Sept. - Oct. |                              |           |
| BMCH 2400                                     | HUMAN PHYSIOLOGY & ANATOMY I | 4         |
| <b>Credits</b>                                |                              | <b>15</b> |

**Spring**

|   |  |           |
|---|--|-----------|
| BMCH 2500                                       | HUMAN PHYSIOLOGY AND ANATOMY II <sup>1</sup> | 4         |
| PSYC 1010                                       | INTRODUCTION TO PSYCHOLOGY I                 | 3         |
| MATH 1330                                       | TRIGONOMETRY                                 | 3         |
| BIOL 1750                                       | BIOLOGY II                                   | 5         |
| Advising appointment for fall: February - March |  |           |
| Join a student organization                     |  |           |
| <b>Credits</b>                                  |  | <b>15</b> |

**Sophomore**

| Fall  |                                    | Credits   |
|---|------------------------------------|-----------|
| BMCH 2200                                     | ANALYTICAL METHODS IN BIOMECHANICS | 3         |
| MATH 1950                                     | CALCULUS I                         | 5         |
| CHEM 1180                                     | GENERAL CHEMISTRY I                | 3         |
| CHEM 1184                                     | GENERAL CHEMISTRY I LABORATORY     | 1         |
| ENGL 1150                                     | ENGLISH COMPOSITION I              | 3         |
| Advising appointment for spring: Sept. - Oct. |                                    |           |
| <b>Credits</b>                                |                                    | <b>15</b> |

**Spring**

|   |   |           |
|---|---|-----------|
| BMCH 1100                                       | ETHICS OF SCIENTIFIC RESEARCH             | 3         |
| PHYS 2110                                       | GENERAL PHYSICS I - CALCULUS LEVEL        | 4         |
| PHYS 1154                                       | GENERAL PHYSICS LABORATORY I              | 1         |
| CHEM 1190                                       | GENERAL CHEMISTRY II                      | 3         |
| CHEM 1194                                       | GENERAL CHEMISTRY II LABORATORY           | 1         |
| ENGL 1160                                       | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Advising appointment for fall: February - March |   |           |
| <b>Credits</b>                                  |   | <b>15</b> |

**Junior**

| Fall      |                                  | Credits |
|-----------|----------------------------------|---------|
| BMCH 3000 | BIOMECHANICAL STATICS & DYNAMICS | 3       |
| BMCH 4200 | METHODS IN BIOMECHANICS I        | 3       |
| CMST 1110 | PUBLIC SPEAKING FUNDS            | 3       |

|   |  |            |
|---|--|------------|
| PSYC 3130   | STATISTICS FOR THE BEHAVIORAL SCIENCES | 3          |
| MATH 1960   | CALCULUS II                            | 4          |
| Advising appointment for spring: Sept. - Oct.   |  |            |
| Shadowing/Volunteer experiences   |  |            |
| <b>Credits</b>  |  | <b>16</b>  |
| <b>Spring</b>   |  |            |
| BMCH 4210   | METHODS IN BIOMECHANICS II             | 3          |
| BMCH 4630   | BIOMECHANICS                           | 3          |
| PHYS 2120   | GENERAL PHYSICS II-CALCULUS LEVEL      | 4          |
| PHYS 1164   | GENERAL PHYSICS LABORATORY II          | 1          |
| BMCH 4650   | NEUROMECHANICS OF HUMAN MOVEMENT       | 3          |
| Advising appointment for fall: February - March   |  |            |
| Visit Academic & Career Development Center for resume/cover letter building and editing |  |            |
| Start thinking about internship   |  |            |
| <b>Credits</b>  |  | <b>14</b>  |
| <b>Senior</b>   |  |            |
| <b>Fall</b>   |  |            |
| BMCH 4980   | CAPSTONE DESIGN IN BIOMECHANICS I      | 4          |
| PSYC 4440   | ABNORMAL PSYCHOLOGY                    | 3          |
| General Education Course or Elective  |  | 3          |
| General Education Course or Elective  |  | 3          |
| Elective  |  | 2          |
| Advising appointment for spring: Sept. - Oct.   |  |            |
| <b>Credits</b>  |  | <b>15</b>  |
| <b>Spring</b>   |  |            |
| BMCH 4990   | CAPSTONE DESIGN IN BIOMECHANICS II     | 4          |
| BMCH 4100   | BIOINSPIRED ROBOTICS                   | 3          |
| BMCH 4640   | ORTHOPEDIC BIOMECHANICS                | 3          |
| General Education Course or Elective  |  | 3          |
| Elective  |  | 2          |
| Apply for graduation  |  |            |
| Career searching  |  |            |
| <b>Credits</b>  |  | <b>15</b>  |
| <b>Total Credits</b>  |  | <b>120</b> |

<sup>1</sup> BIOL2740 and BIOL2840 can be taken in place of BMCH 2400 and 2500

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Biomechanics Minor Requirements

| Code                                    | Title                                     | Credits  |
|---|---|----------|
| <b>18 Hours Required</b>                |   |          |
| <b>Core Courses</b>                     |   | <b>9</b> |
| BMCH 1000                               | INTRODUCTION TO BIOMECHANICS              |          |
| BMCH 2200                               | ANALYTICAL METHODS IN BIOMECHANICS        |          |
| BMCH 2400                               | HUMAN PHYSIOLOGY & ANATOMY I              |          |
| <b>Select one plan of study</b>         |   | <b>9</b> |
| <b>Cardiovascular Biomechanics</b>      |   |          |
| <b>Select three from the following:</b> |   |          |
| BMCH 3000                               | BIOMECHANICAL STATICS & DYNAMICS          |          |
| BMCH 4000                               | BIOMATERIALS                              |          |
| BMCH 4670                               | INTRODUCTION TO MECHANICS OF BIOMATERIALS |          |
| BMCH 4690                               | CARDIOVASCULAR BIOMECHANICS               |          |
| <b>Human Movement</b>                   |   |          |
| <b>Select three from the following:</b> |   |          |
| BMCH 4100                               | BIOINSPIRED ROBOTICS                      |          |
| BMCH 4200                               | METHODS IN BIOMECHANICS I                 |          |
| BMCH 4210                               | METHODS IN BIOMECHANICS II                |          |
| BMCH 4630                               | BIOMECHANICS                              |          |
| BMCH 4640                               | ORTHOPEDIC BIOMECHANICS                   |          |
| BMCH 4650                               | NEUROMECHANICS OF HUMAN MOVEMENT          |          |

Must earn grade of "C-" or higher in coursework

## Sports Biomechanics Minor

### Sports Biomechanics Minor Requirements

| Code                        | Title                           | Credits   |
|-----------------------------|---------------------------------|-----------|
| <b>All of the following</b> |                                 | <b>17</b> |
| BMCH 2400                   | HUMAN PHYSIOLOGY & ANATOMY I    |           |
| BMCH 4630                   | BIOMECHANICS                    |           |
| BMCH 4640                   | ORTHOPEDIC BIOMECHANICS         |           |
| BMCH 4680                   | SPORTS BIOMECHANICS             |           |
| KINS 1010                   | INTRODUCTION TO SPORTS MEDICINE |           |
| KINS 4940                   | PHYSIOLOGY OF EXERCISE          |           |

Must earn grade of "C-" or higher in coursework

# Health and Kinesiology

## Our Mission

The School of Health and Kinesiology (H&K) is committed to excellence and the faculty is dedicated to teaching, scholarly activity, and service. The primary mission of the School of H&K is to prepare students for successful careers or advanced academic studies in kinesiology, public health, and physical education. The faculty shares a common sense of purpose to provide the knowledge, resources, and opportunities that will enable students to possess the skills and dispositions necessary to become dedicated practitioners, reflective scholars, and responsible citizens.

## Accreditation

The teacher educator programs in Health and Physical Education are accredited by the National Council for Accreditation of Teacher Education (NCATE) and the Nebraska Department of Education.

The Bachelor of Science in Public Health program is accredited by the Council on Education for Public Health (CEPH).

## Contact

School of Health and Kinesiology  
6323 Maverick Plaza  
Omaha, NE 68182  
402.554.2670

**Website (<https://www.unomaha.edu/college-of-education/health-kinesiology/>)**

## Admissions

### Public Health Admission Information

Students must have a cumulative and major GPA of at least 2.5.

### Kinesiology Admission Information

Students must have a cumulative and major GPA of at least 2.5.

### Physical Education and Health Education Educator Preparation Program Admission Information

The college offers educator preparation programs at the following levels: elementary education, middle level, and secondary education. For a complete listing of the endorsement areas at each level can be found here (<https://www.unomaha.edu/college-of-education/student-services/certification/endorsements.php>).

## Degrees Offered

- Bachelor of Science in Public Health (p. 521)
- Bachelor of Science in Kinesiology (p. 523)

## Minors Offered

- Human Performance Minor (p. 525)
- Public Health Minor (p. 525)
- Sports Medicine Minor (p. 526)
- Worksite Wellness Minor (p. 526)

## Endorsements Offered

- Health Science Education Endorsement (p. 593)
- Physical Education (PK-12) and Health Education (p. 578)

- Physical Education (7-12) and Health Education (7-12) (p. 581)
- Coaching (7-12) (p. 592)

## Public Health, Bachelor of Science

A degree in Public Health prepares students to become professionals who promote the health of the general public through education and skills for individuals and communities. Public Health professionals are leaders who engage in advocacy for policies that enhance and ensure healthy populations.

### Potential Career Opportunities/settings and examples:

- Government agencies
  - Centers for Disease Control and Prevention (CDC)
  - Department of Health and Human Services
  - State, Regional, County, and City Health Departments
  - Legislative bodies
  - Housing Authority
  - Peace Corps
- School Systems
  - Primary – 12 education
  - Colleges/Universities
  - Administration
- Non-profit organizations
  - American Red Cross
  - American Cancer Society
  - Women's Center for Advancement
  - Diabetes Educational Center of the Midlands
  - Planned Parenthood
  - Multiple Sclerosis Society
  - Wellness Council of the Midlands
- Non-Governmental Organizations (Global Health)
  - World Food Program
  - CARE International
  - International Red Cross
  - Oxfam
  - Catholic Relief Services
  - World Vision
- Foundations
  - Buffett Foundation
  - Gates Foundation
- Hospitals
- Corporations

## Kinesiology, Bachelor of Science in Education

The Kinesiology program is designed to prepare students to assume positions as fitness or health promotion directors and exercise consultants.

### Potential Career Opportunities/settings:

- Biomechanist
- Community Fitness Specialist
- Exercise Physiologist
- Fitness Club Management
- Hospital Based Fitness & Wellness Specialist
- Laboratory Technician
- Personal Trainer

- Physical Activity Specialist
- Physical Therapy Aid or Technician
- Sports Industry/Equipment Exercise Science Specialist
- Strength & Conditioning Specialist
- Worksite Fitness/Wellness Specialist

## Physical Education Teaching Preparation

The Physical Education Teaching program prepares students to become certified physical educators in the state of Nebraska. Students may select an endorsement that includes Physical Education PK-6 and 7-12 dual endorsement or Physical Education 7-12 and Health Education 7-12 dual endorsement. The program includes hands on field experience in both urban and suburban schools beginning with observations and culminating with student teaching the final semester.

### Potential Career Opportunities/settings:

- Elementary School
- Middle School
- High School

\*Requires additional degrees/certifications.

## Public Health, Bachelor of Science

### Degree Description

The public health program prepares students to become professionals who promote the health of local, national, and global populations through education and skills for individuals and communities. A degree in public health prepares students to think critically about societal issues through a justice-based framework, and public health professionals engage in advocacy for policies that ensure and support healthy populations. Students who graduate with a degree in public health pursue careers in a variety of fields, including health administration; health promotion, and behavior; epidemiology; and environmental health. Students are also prepared to pursue graduate degrees in public health or related fields.

### Admissions

Students must have a cumulative and major GPA of at least 2.5.

### Fast Track Program

The School of Health and Kinesiology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BS in Public Health major desiring to pursue a MS in Health & Kinesiology with a Health Behavior concentration, or those pursuing a BS in Kinesiology major desiring to pursue a MS in Health & Kinesiology with an Exercise Science concentration.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.

- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Public Health, Bachelor of Science Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 75 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>66</b> |
| PHHB 1500   | FOUNDATIONS IN PUBLIC HEALTH (**)                       |           |
| PHHB 4000   | METHODS AND MATERIALS IN HEALTH EDUCATION (^)           |           |

|                                  |   |          |
|----------------------------------|---|----------|
| PHHB 4040                        | EPIDEMIOLOGY & PREVENTION OF DISEASE (^)                |          |
| PHHB 4050                        | INTRODUCTION TO RESEARCH IN PUBLIC HEALTH               |          |
| PHHB 4060                        | SCHOOL HEALTH PROGRAMS (^)                              |          |
| PHHB 4130                        | COMMUNITY HEALTH  |          |
| PHHB 4200                        | A PUBLIC HEALTH APPROACH TO MENTAL HEALTH               |          |
| PHHB 4280                        | SOCIAL MARKETING FOR PUBLIC HEALTH (^)                  |          |
| PHHB 4400                        | HEALTH LITERACY   |          |
| PHHB 4550                        | HEALTH ASPECTS OF AGING                                 |          |
| PHHB 4650                        | GLOBAL HEALTH (**)                                      |          |
| PHHB 4880                        | PUBLIC HEALTH POLICY (^)                                |          |
| PHHB 4950                        | PUBLIC HEALTH LEADERSHIP AND ADVOCACY (^)               |          |
| PHHB 4990                        | INTERNSHIP IN PUBLIC HEALTH (^)                         |          |
| PA 2170                          | INTRODUCTION TO PUBLIC ADMINISTRATION (**)              |          |
| KINS 3900                        | MOTIVATION FOR PHYSICAL ACTIVITY (^)                    |          |
| CMST 2410                        | SMALL GROUP COMMUNICATION AND LEADERSHIP (**)           |          |
| HEKI 2100                        | STATISTICS IN HEALTH AND KINESIOLOGY (^)                |          |
| or PSYC 3130                     | STATISTICS FOR THE BEHAVIORAL SCIENCES                  |          |
| or SOC 2130                      | SOCIAL STATISTICS                                       |          |
| BIOL 1330                        | ENVIRONMENTAL BIOLOGY (**)                              |          |
| PHHB 4700                        | WOMEN'S HEALTH AND ISSUES OF DIVERSITY                  |          |
| JMC 1500                         | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION (**) |          |
| PSYC 1010                        | INTRODUCTION TO PSYCHOLOGY I (**)                       |          |
| <b>Select 3 of the Following</b> |   | <b>9</b> |
| PHHB 2070                        | SUBSTANCE ABUSE AND MISUSE: PREVENTION AND MANAGEMENT   |          |
| PHHB 2850                        | STRESS MANAGEMENT                                       |          |
| PHHB 3080                        | HUMAN SEXUALITY   |          |
| PHHB 3310                        | INJURY PREVENTION IN PUBLIC HEALTH                      |          |
| HEKI 3090                        | APPLIED NUTRITION (**)                                  |          |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Public Health, Bachelor of Science Four Year Plan

**Freshman**

| <b>Fall</b>                                   |  | <b>Credits</b> |
|---|--|----------------|
| ENGL 1150                                     | ENGLISH COMPOSITION I                              | 3              |
| PHHB 1500                                     | FOUNDATIONS IN PUBLIC HEALTH                       | 3              |
| JMC 1500                                      | INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION | 3              |
| PSYC 1010                                     | INTRODUCTION TO PSYCHOLOGY I                       | 3              |
| General Education Course or Elective          |  | 3              |
| Attend Durango Days; other campus events      |  |                |
| Advising appointment for spring: Sept. - Oct. |  |                |
| <b>Credits</b>                                |  | <b>15</b>      |

**Spring**

|           |   |   |
|-----------|---|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
|-----------|---|---|

|   |                       |   |
|---|-----------------------|---|
| CMST 1110                                       | PUBLIC SPEAKING FUNDS | 3 |
| MATH 1220                                       | COLLEGE ALGEBRA       | 3 |
| General Education Course or Elective            |                       | 4 |
| Elective  |                       | 2 |
| Advising appointment for fall: February - March |                       |   |
| Join a student organization                     |                       |   |

**Credits 15****Sophomore****Fall**

|   |  |   |
|---|--|---|
| PSYC 3130                                     | STATISTICS FOR THE BEHAVIORAL SCIENCES   | 3 |
| or SOC 2130                                   | or SOCIAL STATISTICS                     |   |
| or HEKI 2100                                  | or STATISTICS IN HEALTH AND KINESIOLOGY  |   |
| CMST 2410                                     | SMALL GROUP COMMUNICATION AND LEADERSHIP | 3 |
| General Education Course or Elective          |  | 3 |
| Class 1 of 2 "Pick 3 Section" <sup>1</sup>    |  | 3 |
| Elective                                      |  | 3 |
| Advising appointment for spring: Sept. - Oct. |  |   |

**Credits 15****Spring**

|   |   |   |
|---|---|---|
| PHHB 4040                                       | EPIDEMIOLOGY & PREVENTION OF DISEASE      | 3 |
| PHHB 4050                                       | INTRODUCTION TO RESEARCH IN PUBLIC HEALTH | 3 |
| BIOL 1330                                       | ENVIRONMENTAL BIOLOGY                     | 3 |
| Elective  |   | 3 |
| General Education Course or Elective            |   | 3 |
| Advising appointment for fall: February - March |   |   |

**Credits 15****Junior****Fall**

|   |                                       |   |
|---|---------------------------------------|---|
| PHHB 4880                                     | PUBLIC HEALTH POLICY                  | 3 |
| PHHB 4400                                     | HEALTH LITERACY                       | 3 |
| PHHB 4130                                     | COMMUNITY HEALTH                      | 3 |
| PA 2170                                       | INTRODUCTION TO PUBLIC ADMINISTRATION | 3 |
| Class 2 of 2 "Pick 3 Section" <sup>1</sup>    |                                       | 3 |
| Advising appointment for spring: Sept. - Oct. |                                       |   |

**Credits 15****Spring**

|   |   |   |
|---|---|---|
| PHHB 4700                                       | WOMEN'S HEALTH AND ISSUES OF DIVERSITY    | 3 |
| PHHB 4650                                       | GLOBAL HEALTH                             | 3 |
| PHHB 4000                                       | METHODS AND MATERIALS IN HEALTH EDUCATION | 3 |
| KINS 3900                                       | MOTIVATION FOR PHYSICAL ACTIVITY          | 3 |
| Elective  |   | 3 |
| Advising appointment for fall: February - March |   |   |

**Credits 15****Senior****Fall**

|           |   |   |
|-----------|---|---|
| PHHB 4280 | SOCIAL MARKETING FOR PUBLIC HEALTH        | 3 |
| PHHB 4200 | A PUBLIC HEALTH APPROACH TO MENTAL HEALTH | 3 |
| PHHB 4060 | SCHOOL HEALTH PROGRAMS                    | 3 |

|   |   |
|---|---|
| Elective                                      | 3                                       |
| Class 3 of 3 "Pick 3 Section"                 | 3                                       |
| Advising appointment for spring: Sept. - Oct. |   |
| PHHB 4990 Application Due                     |   |
| <b>Credits</b>                                | <b>15</b>                               |
| <b>Spring</b>                                 |   |
| PHHB 4990                                     | INTERNSHIP IN PUBLIC HEALTH 3           |
| PHHB 4550                                     | HEALTH ASPECTS OF AGING 3               |
| PHHB 4950                                     | PUBLIC HEALTH LEADERSHIP AND ADVOCACY 3 |
| Elective                                      | 3                                       |
| Elective                                      | 3                                       |
| Apply for graduation                          |   |
| Career searching                              |   |
| <b>Credits</b>                                | <b>15</b>                               |
| <b>Total Credits</b>                          | <b>120</b>                              |

<sup>1</sup> Pick 2 Section - PHHB 2070, PHHB 2850, PHHB 3080, PHHB 3310 OR HEKI 3090

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Kinesiology, Bachelor of Science in Kinesiology Degree Description

The kinesiology major is designed to prepare students to assume positions as fitness or health promotion directors and exercise consultants in private or public agencies, health centers, cardiac rehabilitation programs, as well as corporate fitness programs. This major is also well-suited as a pre-professional program for students interested in further pursuing a career in athletic training, physical therapy, occupational therapy, nursing, physician assistant, and other medical fields. Additionally, the kinesiology major will prepare students for research intensive graduate programs in exercise physiology, biomechanics, physical activity, and others.

## Admissions

Students must have a cumulative and major GPA of at least 2.5.

## Fast Track Program

The School of Health and Kinesiology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BS in Public Health major desiring to pursue a MS in Health & Kinesiology with a Health Behavior concentration, or those pursuing a BS in Kinesiology major desiring to pursue a MS in Health & Kinesiology with an Exercise Science concentration.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Alternative Entry into the MA in Athletic Training from the BS in Kinesiology

The School of Health and Kinesiology offers an alternative entry into the MA in Athletic Training, which allows outstanding students to complete the BS undergraduate Kinesiology degree and the MA in Athletic Training graduate degree. The alternative entry program is designed for dedicated students who are motivated and willing to take on early the challenges relating to graduate education. Interested students are encouraged to meet with their academic advisor for more information about this program.

## Kinesiology, Bachelor of Science Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |



|   |   |
|---|---|
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 92 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following</b>   | <b>69</b>   |
| KINS 1500   | FUNDAMENTALS OF GROUP EXERCISE (^)                      |
| KINS 1600   | FUNDAMENTALS OF RESISTANCE TRAINING (^)                 |
| KINS 1800   | FITNESS FOR LIVING                                      |
| HEKI 2000   | MEDICAL TERMINOLOGY                                     |
| HEKI 2100   | STATISTICS IN HEALTH AND KINESIOLOGY (^)                |
| KINS 2210   | GROUP EXERCISE LEADERSHIP (^)                           |
| KINS 2220   | THEORY AND PRACTICE OF TEACHING RESISTANCE TRAINING (^) |
| BMCH 2400   | HUMAN PHYSIOLOGY & ANATOMY I (**)                       |
| BMCH 2500   | HUMAN PHYSIOLOGY AND ANATOMY II (^)                     |
| KINS 2430   | FOUNDATIONS IN KINESIOLOGY (**)                         |
| KINS 2800   | MOTOR LEARNING (^)                                      |
| KINS 3040   | PREVENTION AND CARE OF ATHLETIC INJURIES (^)            |
| KINS 3900   | MOTIVATION FOR PHYSICAL ACTIVITY (^)                    |
| KINS 4010   | LABORATORY METHODS IN EXERCISE SCIENCE (^)              |
| KINS 4050   | EXERCISE AND SPORT NUTRITION (^)                        |
| KINS 4070   | OPTIMIZING SPORTS PERFORMANCE (^)                       |
| KINS 4080   | CLINICAL EXERCISE PHYSIOLOGY (^)                        |
| KINS 4100   | APPLIED KINESIOLOGY (^)                                 |
| or BMCH 4630  | BIOMECHANICS  |
| KINS 4150   | ADAPTED PHYSICAL ACTIVITY THEORY AND PRACTICE (** ^)    |
| KINS 4800   | KINESIOLOGY PRACTICUM (^)                               |
| KINS 4910   | INTERNSHIP IN KINESIOLOGY (^)                           |
| KINS 4940   | PHYSIOLOGY OF EXERCISE (^)                              |

|           |                                   |
|-----------|-----------------------------------|
| HEKI 3090 | APPLIED NUTRITION (**)            |
| PHHB 4550 | HEALTH ASPECTS OF AGING           |
| PSYC 1010 | INTRODUCTION TO PSYCHOLOGY I (**) |

**Additional Required Courses - Select 23 hours of required courses approved by advisor** **23**

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Kinesiology, Bachelor of Science Four Year Plan

### Freshman

| Fall  |   | Credits   |
|---|---|-----------|
| BMCH 2400                                     | HUMAN PHYSIOLOGY & ANATOMY I <sup>1</sup> | 4         |
| KINS 2430                                     | FOUNDATIONS IN KINESIOLOGY                | 3         |
| ENGL 1150                                     | ENGLISH COMPOSITION I                     | 3         |
| MATH 1220                                     | COLLEGE ALGEBRA                           | 3         |
| General Education Course or Elective          |   | 3         |
| Attend Durango Days; other campus events      |   |           |
| Advising appointment for spring: Sept. - Oct. |   |           |
| <b>Credits</b>                                |   | <b>16</b> |

### Spring

|   |  |           |
|---|--|-----------|
| BMCH 2500                                       | HUMAN PHYSIOLOGY AND ANATOMY II <sup>1</sup> | 4         |
| KINS 1800                                       | FITNESS FOR LIVING                           | 3         |
| ENGL 1160                                       | COLLEGE RESEARCH AND INFORMATION LITERACY    | 3         |
| HEKI 2100                                       | STATISTICS IN HEALTH AND KINESIOLOGY         | 3         |
| Elective  |  | 3         |
| Advising appointment for fall: February - March |  |           |
| Join a student organization                     |  |           |
| <b>Credits</b>                                  |  | <b>16</b> |

### Sophomore

| Fall  |                                |           |
|---|--------------------------------|-----------|
| KINS 1500                                     | FUNDAMENTALS OF GROUP EXERCISE | 1         |
| KINS 2210                                     | GROUP EXERCISE LEADERSHIP      | 2         |
| KINS 2800                                     | MOTOR LEARNING                 | 3         |
| PSYC 1010                                     | INTRODUCTION TO PSYCHOLOGY I   | 3         |
| General Education Course or Elective          |                                | 3         |
| HEKI 3090                                     | APPLIED NUTRITION              | 3         |
| Advising appointment for spring: Sept. - Oct. |                                |           |
| <b>Credits</b>                                |                                | <b>15</b> |

### Spring

|   |   |           |
|---|---|-----------|
| KINS 1600                                       | FUNDAMENTALS OF RESISTANCE TRAINING                 | 1         |
| KINS 2220                                       | THEORY AND PRACTICE OF TEACHING RESISTANCE TRAINING | 2         |
| CMST 1110                                       | PUBLIC SPEAKING FUNDS                               | 3         |
| KINS 4940                                       | PHYSIOLOGY OF EXERCISE                              | 3         |
| General Education Course or Elective            |   | 3         |
| General Education Course or Elective            |   | 3         |
| Advising appointment for fall: February - March |   |           |
| <b>Credits</b>                                  |   | <b>15</b> |

### Junior

| Fall      |                     |   |
|-----------|---------------------|---|
| KINS 4100 | APPLIED KINESIOLOGY | 3 |

|   |   |   |
|---|---|---|
| KINS 4150                                     | ADAPTED PHYSICAL ACTIVITY THEORY AND PRACTICE | 3 |
| KINS 3900                                     | MOTIVATION FOR PHYSICAL ACTIVITY              | 3 |
| Class 1/6 Professional Elective <sup>2</sup>  |   | 3 |
| Class 2/6 Professional Elective <sup>2</sup>  |   | 3 |
| Advising appointment for spring: Sept. - Oct. |   |   |
| Shadowing/Volunteer experiences               |   |   |

**Credits** **15**

### Spring

|   |  |   |
|---|--|---|
| KINS 4010   | LABORATORY METHODS IN EXERCISE SCIENCE   | 6 |
| KINS 3040   | PREVENTION AND CARE OF ATHLETIC INJURIES | 3 |
| KINS 4080   | CLINICAL EXERCISE PHYSIOLOGY             | 3 |
| Class 3/6 Professional Elective <sup>2</sup>  |  | 3 |
| HEKI 2000   | MEDICAL TERMINOLOGY                      | 1 |
| Advising appointment for fall: February - March   |  |   |
| Visit Academic & Career Development Center for resume/cover letter building and editing |  |   |
| Start thinking about internship   |  |   |

**Credits** **16**

### Senior

#### Fall

|   |                               |   |
|---|-------------------------------|---|
| KINS 4800                                     | KINESIOLOGY PRACTICUM         | 3 |
| KINS 4070                                     | OPTIMIZING SPORTS PERFORMANCE | 3 |
| PHHB 4550                                     | HEALTH ASPECTS OF AGING       | 3 |
| Class 4/6 Professional Elective <sup>2</sup>  |                               | 3 |
| Class 5/6 Professional Elective <sup>2</sup>  |                               | 3 |
| Advising appointment for spring: Sept. - Oct. |                               |   |
| KINS 4910 Application Due                     |                               |   |

**Credits** **15**

### Spring

|  |                              |   |
|--|------------------------------|---|
| KINS 4910                                    | INTERNSHIP IN KINESIOLOGY    | 3 |
| Class 6/6 Professional Elective <sup>2</sup> |                              | 3 |
| Class 7/7 Professional Elective <sup>2</sup> |                              | 3 |
| KINS 4050                                    | EXERCISE AND SPORT NUTRITION | 3 |
| Apply for graduation                         |                              |   |
| Career searching                             |                              |   |

**Credits** **12**

**Total Credits** **120**

<sup>1</sup> BIOL2740 and BIOL2840 can be taken in place of BMCH 2400 and 2500

<sup>2</sup> Professional electives are chosen from the Elective Core Categories on the degree worksheet. Other courses may qualify following advisor approval

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for

the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.5 cumulative and major GPA

**Graduation Requirements:** Students must have a cumulative and major GPA of at least 2.5, no grade lower than "C-" in required courses, and no incomplete in required courses to be recommended for graduation.

## Human Performance Minor

### Human Performance Minor Requirements

| Code                      | Title  | Credits   |
|---------------------------|--|-----------|
| <b>Required Courses</b>   |  | <b>16</b> |
| BIOL 2740<br>or BMCH 2400 | HUMAN ANATOMY AND PHYSIOLOGY I<br>HUMAN PHYSIOLOGY & ANATOMY I |           |
| KINS 4940                 | PHYSIOLOGY OF EXERCISE   |           |
| KINS 3900                 | MOTIVATION FOR PHYSICAL ACTIVITY                               |           |
| KINS 4070                 | OPTIMIZING SPORTS PERFORMANCE                                  |           |
| KINS 4080                 | CLINICAL EXERCISE PHYSIOLOGY                                   |           |

## Public Health Minor

### Public Health Minor Requirements

Students will be required to complete 15 credits from the following:

| Code                                | Title                                     | Credits  |
|-------------------------------------|---|----------|
| <b>Required Course</b>              |   | <b>3</b> |
| PHHB 1500                           | FOUNDATIONS IN PUBLIC HEALTH              |          |
| <b>Select 1 from the following:</b> |   | <b>3</b> |
| PHHB 4040                           | EPIDEMIOLOGY & PREVENTION OF DISEASE      |          |
| PHHB 4050                           | INTRODUCTION TO RESEARCH IN PUBLIC HEALTH |          |
| <b>Select 1 from the following:</b> |   | <b>3</b> |
| PHHB 4130                           | COMMUNITY HEALTH                          |          |
| PHHB 4400                           | HEALTH LITERACY                           |          |
| <b>Select 2 from the following</b>  |   | <b>6</b> |
| PHHB 4060                           | SCHOOL HEALTH PROGRAMS                    |          |
| PHHB 4200                           | A PUBLIC HEALTH APPROACH TO MENTAL HEALTH |          |
| PHHB 4550                           | HEALTH ASPECTS OF AGING                   |          |
| PHHB 4650                           | GLOBAL HEALTH                             |          |
| PHHB 4880                           | PUBLIC HEALTH POLICY                      |          |
| PHHB 4960                           | PUBLIC HEALTH - PLANNING AND ORGANIZATION |          |

At least a 2.0 NU GPA requirement for students to declare.

Must earn grade of C- or higher in courses required for this minor.

## Sports Medicine Minor

### Sports Medicine Minor Requirements

| Code                  | Title                                    | Credits   |
|-----------------------|--|-----------|
| <b>Hours Required</b> |  | <b>15</b> |
| PHHB 3030             | FIRST AID <sup>1</sup>                   |           |
| HEKI 2000             | MEDICAL TERMINOLOGY                      |           |
| HEKI 3090             | APPLIED NUTRITION                        |           |
| KINS 1010             | INTRODUCTION TO SPORTS MEDICINE          |           |
| KINS 3040             | PREVENTION AND CARE OF ATHLETIC INJURIES |           |
| BMCH 2400             | HUMAN PHYSIOLOGY & ANATOMY I             |           |
| or BIOL 2740          | HUMAN ANATOMY AND PHYSIOLOGY I           |           |

<sup>1</sup> If a student already has current CPR certification and First Aid certification they may substitute KINS 1800 OR KINS 3010

At least a 2.5 NU GPA requirement for students to declare.

Must earn grade of C- or higher in courses required for this minor.

## Worksite Wellness Minor

### Worksite Wellness Minor Requirements

| Code                             | Title  | Credits  |
|----------------------------------|--|----------|
| <b>15 Hours Required</b>         |  |          |
| <b>Required Courses</b>          |  | <b>9</b> |
| KINS 1800                        | FITNESS FOR LIVING                               |          |
| KINS 4200                        | PLANNING WORKSITE WELLNESS PROGRAMS              |          |
| PHHB 2310                        | HEALTHFUL LIVING                                 |          |
| <b>Select from the following</b> |  | <b>6</b> |
| MKT 3200                         | BUSINESS COMMUNICATIONS                          |          |
| MGMT 3490                        | MANAGING PEOPLE AND ORGANIZATIONS                |          |
| PA 3500                          | NONPROFIT ORGANIZATIONS AND MANAGEMENT           |          |
| PA 3600                          | PERSONNEL AND VOLUNTEER MANAGEMENT IN NONPROFITS |          |
| KINS 3900                        | MOTIVATION FOR PHYSICAL ACTIVITY                 |          |
| KINS 4700                        | FITNESS MANAGEMENT                               |          |

## Teacher Education

Teacher Education at UNO is dedicated to your success and the success of our region's children and teens. As an undergraduate student you will receive one-on-one guidance from an instructional coach who will give you meaningful feedback on your skills as you practice teaching in one of our many partner schools. This process will prepare you for the clinical practice experience and the real world of teaching upon graduation. As a graduate student in one of our award-winning programs, you'll experience blended learning with distance friendly classes taught by professors with PK-12 classroom experience.

Whether you want to teach kindergarten or high school math, whether you are a first-year student or an experienced educator seeking more skills, you will benefit from the unique network of support offered by our department, UNO and the schools of our city. You will receive the opportunities you need and the support you can rely on to become a dedicated practitioner, a reflective scholar and a responsible citizen.

## Accreditation

For program accreditation information, please refer to this table (p. 512).

## Other Information

### Praxis II Content Test:

All educator preparation candidates seeking certification are required to take a Praxis II content test in each endorsement area of their preparation prior to being awarded initial teacher certification through the Nebraska Department of Education (NDE). It is recommended that candidates take the Praxis II content test the semester prior to their clinical practice semester.

This link (<http://www.ets.org/praxis/ne/requirements/>) will take you to the ETS website page for the Nebraska Department of Education requirements. The page lists the Nebraska requirements for each endorsement area.

### Professional Education Sequence

All candidates in programs leading to teacher certification must complete the courses that constitute the professional education sequence. The professional education sequence is composed of 15 credit hours organized into three courses of three credits each and one course of six credits: TED 2100, TED 2200 or TED 2060, TED 2300 or TED 2380, and TED 2400 or MUS 3600 or TED 2410/ TED 2420.

TED 2100 and TED 2200 (Pre-professional Education Core) are open to all students on the UNO campus with a cumulative 2.0 GPA. TED 2200, TED 2060, and TED 2400 meet the Nebraska Department of Education requirement for human relations. To enroll in the other professional education sequence courses (TED 2300 or TED 2380 and TED 2400), candidates must have successfully applied to the Educator Preparation Program and must satisfy any other prerequisites listed for the course.

Candidates who receive a grade below "C", "I" (incomplete), or a "W" (Withdraw) in a professional education sequence course may not continue in the professional course sequence until that grade is removed.

Note: Candidates, who receive a grade below "C" or an "I"; or who voluntarily withdraw from any practicum or field experience after being identified as a student in jeopardy; or who are withdrawn from any practicum or field experience must petition to continue in the program.

### Professional Dispositions Statement

Teaching is a profession that requires its potential candidates to be individuals of integrity. Prospective teachers must be able to demonstrate they are individuals of strong moral character who can make mature decisions for themselves and for the students whom they will teach. Teachers are responsible for the education, safety, and well-being of anyone in their charge. The University of Nebraska at Omaha College of Education, Health, and Human Sciences prepares future teachers who show a high degree of moral character and the ability to act responsibly inside and outside the classroom. These individuals must be able to serve as representatives of the College and the University and must demonstrate the personal and professional dispositions of the teaching profession.

Inappropriate behaviors on the part of the candidates, which in the College's reasonable judgment, violate the University's Student Code of Conduct, establish a lack of integrity or moral/ethical character, or demonstrate conduct or patterns of behavior inconsistent with the personal and professional dispositions expected in the teaching profession, shall be sufficient grounds for 1) denial of admission to or enrollment in

educator preparation programs, 2) dismissal or removal from programs, courses, observations, field experiences, practica, clinical practice, and similar field-based experiences, and 3) withholding institutional recommendation for certification. Such behaviors could be evidenced within the University or PK-12 school environment, outside the University or PK-12 school environment, and/or in an electronic or digital context. Displays or patterns of behaviors may be established by any credible means including, but not limited to, the facts surrounding a record of arrests or convictions or information obtained by the University directly from a school or district official. Teacher candidates should note that the College of Education, Health, and Human Sciences must provide a recommendation for certification in order for a student to obtain his/her teaching certificate. Accordingly, inappropriate behaviors by candidates could jeopardize not only their educational goals at UNO but also their professional goals including the ability to become a certified teacher.

Candidates who exhibit inappropriate behaviors may be referred for a Conference of Concern to formally identify the unsuitable behaviors, recommend corrective action(s), and determine the candidate's suitability for continuing in educator preparation. Candidates who have convictions outlined in the Nebraska Department of Education's Rule 20, Section 005.07A, will be allowed to continue in the educator preparation program or referred for certification only through an appeal to the Commissioner or State Board of Education.

**Note:** In accordance with the Nebraska Department of Education, Rule 20, the following information must be provided to all persons who apply for admission to programs leading to teacher certification: *Persons who have felony convictions or misdemeanor convictions involving abuse, neglect or sexual misconduct are automatically rejected by the Nebraska Department of Education for certification.*

## Field/Clinical/Practicum/Clinical Practice Experiences

As part of their educator preparation program, candidates are required to complete various field, clinical, practicum, and clinical practice experiences.

In accordance with policies and procedures of the Nebraska Department of Education, and in compliance with the requests of cooperating school districts, no candidate will be permitted to participate in PK-12 classroom-based experiences (including clinical practice) until a signed statement of personal and professional fitness to teach has been completed. The statement of personal and professional fitness is required as part of the admission application to an educator preparation program.

## Clinical Practice Policies

All candidates for Elementary, Middle level, Special education, or Secondary teacher certification will be required to complete one semester of full-day clinical practice for a total of 12 credit hours. Candidates seeking an additional endorsement to the basic certificate will be required to complete additional clinical practice experiences in their endorsement area(s). Clinical practice experiences will be completed in identified, local, metropolitan, area schools where placement and supervision are arranged through the College of Education, Health, and Human Sciences.

Admission to clinical practice is by application only. Application for clinical practice must be made in the fall or spring term preceding the clinical practice semester. Applicants cannot be considered for placement unless all application materials are submitted by the announced deadline:

September 15 for spring clinical practice and February 1 for fall clinical practice.

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to

clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice (3.0 GPA required for social science endorsement).

**Special Note:** Candidates who are withdrawn from any clinical practice experience, or who voluntarily withdraw after being identified as a candidate in jeopardy, must petition if they wish to continue in their professional preparation program.

## Certification

Upon successful completion of all coursework and clinical practice, candidates are eligible to apply and may be recommended for a State of Nebraska teaching certificate. Candidates may be recommended to NDE once all holds with UNO are cleared. If a candidate applies for certification 5 years or more after completing all coursework and clinical practice, a review is required to determine if more coursework is needed.

Information on application procedures can be obtained in the Office of Academic Advising and Field Experiences, Roskens Hall 204. You may also email [unocertification@unomaha.edu](mailto:unocertification@unomaha.edu)

## Contact:

212 Roskens Hall  
6001 Dodge Street  
Omaha, NE 68182-0163  
402.554.3666

**Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/teacher-education/>)**

## Students interested in becoming teachers must formally apply for admission to the Educator Preparation Program (EPP).

Admission policies can be found on the college website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/teacher-education/>). Deadlines for applying are monthly on the first of every month.

All students accepted into the Educator Preparation Program (EPP) must complete a background check. The background check must be conducted in the time frame and by the vendor determined by the College of Education, Health, and Human Sciences. The student is responsible for the cost of the background check.

## Application for Admission to Educator Preparation Program (EPP)

### Step 1:

The following requirements must be met prior to submitting an **Initial Application** to the Educator Preparation Program (EPP).

- All candidates must apply to and be accepted to UNO
- Candidates pursuing an **Educator Preparation Program pathway** (Elementary Education endorsement only) have the following application requirements:
  - Completion of UNO's English Composition I or its transfer equivalents: ENGL 1140, ENGL 1150 (<https://>

[catalog.unomaha.edu/search/?P=ENGL%201150](https://catalog.unomaha.edu/search/?P=ENGL%201150)) or ENGL 1154 (<https://catalog.unomaha.edu/search/?P=ENGL%201154>) (C- or higher)

- Completion or current enrollment in UNO's courses or their transfer equivalents:
  - ENGL Composition II (ENGL 1160 (<https://catalog.unomaha.edu/search/?P=ENGL%201160>) or ENGL 1164 (<https://catalog.unomaha.edu/search/?P=ENGL%201164>)) (C- or higher) and
  - Communication Studies (CMST 1110 (<https://catalog.unomaha.edu/search/?P=CMST%201110>) or CMST 2120 (<https://catalog.unomaha.edu/search/?P=CMST%202120>)) (C- or higher) and
  - Quantitative Literacy (MATH 1120 (<https://catalog.unomaha.edu/search/?P=MATH%201120>), MATH 1130, MATH 1140, or MATH 1300) (C- or higher) or proficiency through Math ACT score
- Completion or current enrollment in UNO's course or their transfer equivalent:
  - Elementary Education, Elementary Special Education, Secondary Education, Secondary Special Education: TED 2100 (C or higher)
  - Early Childhood Inclusive: TED 2250 or TED 2100 (C or higher)
- Established cumulative University of Nebraska System GPA of 2.50 or higher (12+ credit hours in the NU system) Transfer students with credit hours from institutions other than the NU System must have a minimum combined cumulative GPA of 2.5 for all attempted coursework.

Candidates pursuing a **Paraprofessional Pathway** have the following application requirements:

- Completion of UNO's English Composition I or its transfer equivalents: ENGL 1140, ENGL 1150 (<https://catalog.unomaha.edu/search/?P=ENGL%201150>) or ENGL 1154 (<https://catalog.unomaha.edu/search/?P=ENGL%201154>) (C- or higher)
- Completion or current enrollment in UNO's courses or their transfer equivalents:
  - Quantitative Literacy (MATH 1120 (<https://catalog.unomaha.edu/search/?P=MATH%201120>), MATH 1130, MATH 1140, or MATH 1300) (C- or higher) or proficiency through Math ACT score
  - Communication Studies (CMST 1110 (<https://catalog.unomaha.edu/search/?P=CMST%201110>) or CMST 2120 (<https://catalog.unomaha.edu/search/?P=CMST%202120>)) (C- or higher) and
  - ENGL Composition II (ENGL 1160 (<https://catalog.unomaha.edu/search/?P=ENGL%201160>) or ENGL 1164 (<https://catalog.unomaha.edu/search/?P=ENGL%201164>)) (C- or higher) and
- Established cumulative University of Nebraska System GPA of 2.50 or higher (12+ credit hours in the NU system) Transfer students with credit hours from institutions other than the NU System must have a minimum combined cumulative GPA of 2.5 for all attempted coursework.

Enrollment in classes must be posted before the electronic application is submitted:

- Monthly application deadlines: 1st of every month
  - Jan. 1, Feb. 1, March 1, April 1, May 1, June 1, July 1, Aug. 1: deadline for Fall term start
  - Sept. 1, Oct. 1, Nov. 1, Dec. 1: deadline for Spring term start

For any in-progress classes, final grades will be checked. Students who do not meet minimum grade requirements or minimum GPA requirements cannot begin the Educator Preparation Program until the minimum grade is achieved.

## Step 2:

The following requirements must be met for **Formal Admission** to the Educator Preparation Program (EPP).

- Established cumulative University of Nebraska System GPA of 2.75 or higher. Social Science endorsement candidates must have a 3.0 cumulative GPA or higher.
- Completion of TED 2400 (<https://catalog.unomaha.edu/search/?P=TED%202400>) or TED 2410/ TED 2420 or MUS 3600 with a grade of "C" or better

The Office of Academic Advising will verify GPA requirements and passing grades for coursework. Students who are admitted to the Educator Preparation Program, but do not pass TED 2400 (<https://catalog.unomaha.edu/search/?P=TED%202400>) or TED 2410/ TED 2420 or MUS 3600 with a grade of "C" or better, or do not achieve the minimum 2.75 GPA requirement (or 3.0 GPA for social science endorsement candidates), will not be permitted to continue in the Educator Preparation Program course sequence until such grade(s) are received.

Those seeking the non-certification pathway must apply to the Non-Certification Program in order to take upper level education coursework.

The non-certification program does not lead to Nebraska Educator Certification and is designed for community-based work and careers supporting children, youth, adults, and families. Application information can be found on the college website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/student-services/certification/non-cert-education.php>).

## Application to Program

- Admission to UNO
- Completion of UNO's English Composition I or their transfer equivalents: ENGL 1140, ENGL 1150 (<https://catalog.unomaha.edu/search/?P=ENGL%201150>), or ENGL 1154 (<https://catalog.unomaha.edu/search/?P=ENGL%201154>) (C- or higher)
- Completion or in progress at the time of application of UNO's courses or their transfer equivalents:
  - ENGL Composition II (ENGL 1160 (<https://catalog.unomaha.edu/search/?P=ENGL%201160>) or ENGL 1164 (<https://catalog.unomaha.edu/search/?P=ENGL%201164>)) (C- or higher) and
  - Communication Studies (CMST 1110 (<https://catalog.unomaha.edu/search/?P=CMST%201110>) or CMST 2120 (<https://catalog.unomaha.edu/search/?P=CMST%202120>)) (C- or higher) and
  - Quantitative Literacy (MATH 1120, MATH 1130, MATH 1140, MATH 1300) (C- or higher) or proficiency through Math ACT score, and
  - Foundations of Education: TED 2100 (C or higher), and
  - Human Relations: TED 2200 (<https://catalog.unomaha.edu/search/?P=TED%202200>) (C or higher).
- GPA Requirements (UNO Students)
  - Currently enrolled UNO students must have a minimum cumulative GPA of 2.5.
- GPA Requirements (Transfer Students)
  - Transfer students with 12 or more credit hours in the Nebraska System (UNL, UNK, UNO) must have a minimum cumulative GPA of 2.5 for all attempted coursework taken in the NU System.



- Transfer students with credit hours from institutions other than the NU System must have a minimum combined cumulative GPA of 2.5 for all attempted coursework.
- Grades must be posted before packet is submitted: fall semester grades for March 1 deadline, spring semester grades for June 1 deadline, and summer semester grades for October 1 deadline.

## GPA Requirements (UNO Students)

- Currently enrolled UNO students with 12 or more credit hours in the Nebraska System (UNK, UNL, UNO) must have a minimum cumulative GPA of 2.50 for Initial Application and a minimum cumulative GPA of 2.75 for Formal Admission.
- GPA Requirements (Transfer Students): Transfer students with 12 or more credit hours in the Nebraska System (UNL, UNK, UNO) must have a minimum cumulative **NU system** GPA of 2.50 for all attempted coursework for initial application and a minimum cumulative **NU system** GPA of 2.75 for formal admission.

## Degrees Offered

- Elementary Education, Bachelor of Science (p. 532)
- Library Science, Bachelor of Science (p. 542)
- Secondary Education, Bachelor of Science (p. 544)
- Early Childhood Inclusive, Bachelor of Science (p. 530)

## Secondary Education Concentration

**For more information** and a complete listing of program requirements visit the College of Education, Health, and Human Sciences website here (<http://www.unomaha.edu/college-of-education/teacher-education/>).

## Minor Offered

- Education Minor (p. 593)

## Endorsements Offered

Candidates seeking 6-12, 7-12 or PK-12 certification must complete one of the endorsements below.

- Biology (7-12) Endorsement (p. 549)
- Business, Marketing, Information Technology (BMIT) (6-12) Endorsement (p. 551)
- Chemistry (7-12) Endorsement (p. 553)
- English Language Arts (7-12) Endorsement (p. 555)
- Secondary English (7-12) with ESL Supplemental Endorsement (p. 557)
- Secondary English (7-12) with Additional Subject Endorsement (p. 560)
- Mathematics (6-12) Endorsement (p. 566)
- Middle Level (5-9) Endorsement (p. 568)
- Music (PK-12) Endorsement (p. 576)
- Physics (7-12) Endorsement (p. 576)
- Physical Education (PK-12) Endorsement (p. 578)
- Physical Education (7-12) and Health (7-12) Endorsement (p. 581)
- Science (7-12) Endorsement (p. 583)
- Social Science (7-12) Endorsement (p. 585)
- World Language - Spanish (7-12) Endorsement (p. 588)
- World Language - French (7-12) Endorsement (p. 561)
- World Language - German (7-12) Endorsement (p. 564)

## Dual Endorsement Programs Offered

Candidates may elect to complete a second endorsement as part of their secondary education program. These dual endorsements require two semesters of clinical practice (student teaching) and result in two teaching endorsements on the Nebraska teaching certificate. The following dual endorsements are available.

- Special Education (7-12) Endorsement (p. 590)

## Supplemental Endorsements Offered

Supplemental endorsements are content areas which can be added to a Nebraska teaching certificate in the presence of other earned endorsements. A supplemental endorsement cannot stand alone on an initial teaching certificate. The following supplemental endorsements are available.

- English as a Second Language (7-12) Endorsement (p. 591)
- Coaching (7-12) Endorsement (p. 592)
- Information Technology (PK-12) (p. 593) Endorsement (p. 593)
- Health Sciences Education (6-12) Endorsement (p. 593)
- Work-Based Learning (9-12) Endorsement (p. 593)

For more information and a complete listing of program requirements visit the College of Education, Health, and Human Sciences website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/>)

## Early Childhood Inclusive, Bachelor of Science

The early childhood inclusive education major is designed for students seeking Nebraska certification to teach in Birth - age 3 or age 3 through third grade in elementary schools. This major allows students to learn more about early childhood education policy, social-cultural understanding and the well-being of infants and toddlers.

### Potential Career Opportunities/settings:

- Preschool Teacher or Preschool Special Educator
- Infant/Toddler teacher
- Kindergarten – Grade 3 Teacher
- Special Education Teacher (Kindergarten – Grade 3)
- Early intervention home visitor
- Head Start family educator

## Elementary Education, Bachelor of Science

The elementary education major is designed for students seeking Nebraska certification to teach in K-6 elementary schools. This major allows students to explore developmental issues of children, learning theory, elementary school content, and teaching methods. One of the strengths of the preparation program is the field experiences with local school districts.

### Potential Career Opportunities/settings:

- Public School systems
- Private School systems



# Secondary Education, Bachelor of Science

The secondary education major is designed for students seeking Nebraska certification to teach in secondary content areas in grades 7-12, or in PK-12 settings in the areas of Art, Music, or Physical Education. This major allows students to explore developmental issues of children, learning theory, secondary content area(s), and teaching methods. One of the strengths of the preparation program is the field experiences with local school districts.

**Potential Career Opportunities/settings:**

- Public School systems
- Private School systems

# Library Science, Bachelor of Science

UNO's College of Education, Health, and Human Sciences offers an undergraduate degree in Library Science that provides credentials and continuing education for those seeking employment in 21st Century library and information agencies.

**Potential Career Opportunities/settings:**

- Special libraries
- Public libraries
- Academic libraries
- Information Management

# Education - Early Childhood Inclusive, Bachelor of Science

# Early Childhood Inclusive, Bachelor of Science in Education Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>         |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>                                |   |           |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>                             |   |           |
| MATH 1120<br><br>or MATH 1130<br>or MATH 1140<br><br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>                                     |   |           |
| Select one from the following:                                    |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

|   |  |           |
|---|--|-----------|
| <b>Breadth of Knowledge</b>                               |  | <b>13</b> |
| Social Science - 3 hrs                                    |  |           |
| Humanities - 3 hrs  |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs. |  |           |
| Arts - 3 hrs  |  |           |
| <b>Individual and Social Responsibility</b>               |  | <b>6</b>  |
| Cultural Knowledge - 3 hrs                                |  |           |
| Civic Knowledge and Engagement - 3 hrs                    |  |           |
| <b>MAJOR REQUIREMENTS - 64 Hours Required</b>             |  |           |
| **Course will satisfy UNO' General Education Requirement  |  |           |
| ^Course requires pre-requisite(s)                         |  |           |
| <b>All of the following:</b>                              |  | <b>64</b> |
| MTCH 2000   | MATHEMATICS FOR ELEMENTARY TEACHERS I (^)  |           |
| SPED 1500   | INTRODUCTION TO SPECIAL EDUCATION (*)  |           |
| TED 2250  | INTRODUCTION TO EARLY CHILDHOOD EDUCATION  |           |
| TED 2310  | FAMILY-CENTERED PARTNERSHIPS (^)   |           |
| TED 2350  | PLAY IN EARLY CHILDHOOD INCLUSIVE EDUCATION (^)  |           |
| SPED 2550   | HEALTH AND WELL-BEING OF INFANTS AND TODDLERS (^)  |           |
| TED 2400<br>or TED 2410 & TED 2420                        | PLANNING FOR EFFECTIVE TEACHING (^)<br>FOUNDATIONS OF PLANNING FOR EFFECTIVE TEACHING<br>and INTERMEDIATE FIELD EXPERIENCE |           |
| SPED 4230   | LANGUAGE DEVELOPMENT AND DISORDERS FOR TEACHERS (^ Linguistic Diversity)   |           |
| SPED 4820   | EARLY CHILDHOOD INCLUSIVE EDUCATION SYSTEMS, POLICY, AND ADVOCACY (^)  |           |
| TED 3350  | TEACHING AND ASSESSING READING IN ELEMENTARY SCHOOLS (^)   |           |
| TED 4330  | TEACHING OF MATHEMATICS: ELEMENTARY (^)  |           |
| TED 4250  | GUIDANCE OF YOUNG CHILDREN (^)   |           |
| TED 4260  | LANGUAGE AND LITERACY IN EARLY CHILDHOOD EDUCATION (^)   |           |
| TED 4290  | INQUIRY IN EARLY CHILDHOOD SCIENCE AND MATHEMATICS EDUCATION (^)   |           |
| SPED 4860   | RESPONSIVE AND REFLECTIVE TEACHING IN EARLY CHILDHOOD (^)  |           |
| SPED 4830   | ASSESSMENT IN EARLY CHILDHOOD INCLUSIVE EDUCATION (^)  |           |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)   |           |
| <b>ELECTIVES</b>  |  |           |
| Elective hours as required to reach a total of 120 hours  |  |           |

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to

clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Early Childhood Inclusive, Bachelor of Science in Education Four Year Plan

### Freshman

| Fall  |  | Credits   |
|---|--|-----------|
| ENGL 1150<br>or ENGL 1140   | ENGLISH COMPOSITION I<br>or COLLEGE WRITING AND RHETORIC<br>I WITH SUPPORT | 3         |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                       | 3         |
| Humanities  |  | 3         |
| Elective for degree   |  | 3         |
| Cultural Knowledge  |  | 3         |
| Attend Welcome Week events; other campus events   |  |           |
| Advising appointment for spring: Sept. - Oct.   |  |           |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |  |           |
| <b>Credits</b>  |  | <b>15</b> |

### Spring

|  |  |   |
|--|--|---|
| ENGL 1160  | COLLEGE RESEARCH AND<br>INFORMATION LITERACY | 3 |
| SPED 1500  | INTRODUCTION TO SPECIAL<br>EDUCATION         | 3 |
| Elective for degree  |  | 3 |
| Quantitative Literacy  |  | 3 |
| Arts   |  | 3 |
| Advising appointment for fall: February - March                                    |  |   |
| Join a student organization. Consider Student Council for<br>Exceptional Children. |  |   |

| Sophomore   |  | Credits   |
|---|--|-----------|
| Fall  |  |           |
| TED 2250  | INTRODUCTION TO EARLY CHILDHOOD<br>EDUCATION   | 3         |
| TED 2350  | PLAY IN EARLY CHILDHOOD INCLUSIVE<br>EDUCATION | 3         |
| Natural/ Physical Science with Lab  |  | 4         |
| Data Literacy   |  | 3         |
| Elective for degree   |  | 1         |
| Advising appointment for spring: Sept. - Oct.   |  |           |
| Apply to Educator Preparation Program October 1 deadline                              |  |           |
| Identify professional organization to get involved with. Begin<br>resume development. |  |           |
| <b>Credits</b>  |  | <b>14</b> |

### Spring

|   |   |   |
|---|---|---|
| TED 2400<br>or TED 2410 <b>and</b><br>TED 2420  | PLANNING FOR EFFECTIVE TEACHING<br>or FOUNDATIONS OF PLANNING<br>FOR EFFECTIVE TEACHING <b>and</b><br>INTERMEDIATE FIELD EXPERIENCE | 6 |
| SPED 2550                                       | HEALTH AND WELL-BEING OF INFANTS<br>AND TODDLERS  | 3 |
| TED 2310  | FAMILY-CENTERED PARTNERSHIPS  | 3 |
| Civic Knowledge and Engagement                  |   | 3 |
| Earn and maintain 2.75 GPA                      |   |   |
| Advising appointment for fall: February - March |   |   |

| <b>Credits</b>      |  | <b>15</b> |
|---------------------|--|-----------|
| Summer              |  |           |
| Elective for Degree |  | 3         |
| Elective for degree |  | 3         |
| <b>Credits</b>      |  | <b>6</b>  |

### Junior

| Fall  |  |   |
|---|--|---|
| MTCH 2000   | MATHEMATICS FOR ELEMENTARY<br>TEACHERS I           | 3 |
| SPED 4230   | LANGUAGE DEVELOPMENT AND<br>DISORDERS FOR TEACHERS | 3 |
| Elective for degree   |  | 3 |
| Elective for degree   |  | 3 |
| Advising appointment for spring: Sept. - Oct.                                 |  |   |
| By Jan. 10th have 2.75 minimum NU GPA to progress in<br>Educator Prep Program |  |   |

| <b>Credits</b>                                  |   | <b>12</b> |
|---|---|-----------|
| Spring  |   |           |
| TED 3350  | TEACHING AND ASSESSING READING IN<br>ELEMENTARY SCHOOLS                 | 6         |
| TED 4330  | TEACHING OF MATHEMATICS:<br>ELEMENTARY                                  | 3         |
| SPED 4820                                       | EARLY CHILDHOOD INCLUSIVE<br>EDUCATION SYSTEMS, POLICY, AND<br>ADVOCACY | 1         |
| Elective for degree                             |   | 3         |
| Elective for degree                             |   | 3         |
| Advising appointment for fall: February - March |   |           |
| <b>Credits</b>                                  |   | <b>16</b> |

### Senior

| Fall   |  |   |
|--|--|---|
| TED 4250   | GUIDANCE OF YOUNG CHILDREN   | 3 |
| TED 4260   | LANGUAGE AND LITERACY IN EARLY<br>CHILDHOOD EDUCATION              | 3 |
| TED 4290   | INQUIRY IN EARLY CHILDHOOD<br>SCIENCE AND MATHEMATICS<br>EDUCATION | 3 |
| SPED 4860  | RESPONSIVE AND REFLECTIVE<br>TEACHING IN EARLY CHILDHOOD           | 3 |
| SPED 4830  | ASSESSMENT IN EARLY CHILDHOOD<br>INCLUSIVE EDUCATION               | 3 |
| Take Praxis II - EYC #5024                             |  |   |
| Advising appointment for spring: Sept. - Oct.          |  |   |
| Apply for clinical practice at beginning of fall term. |  |   |

| <b>Credits</b> |   | <b>15</b> |
|----------------|---|-----------|
| Spring         |   |           |
| TED 4600       | CLINICAL PRACTICE AND SEMINAR:<br>ELEMENTARY OR SECONDARY LEVEL | 12        |

|                      |     |
|----------------------|-----|
| Apply for Graduation |     |
| Credits              | 12  |
| Total Credits        | 120 |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

**\*\*Transfer credit or placement exam scores may change suggested plan of study**

**GPA Requirements:**

2.5 minimum GPA to remain in College of Education, Health, and Human Sciences, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

Education - Elementary Education, Bachelor of Science

Candidates completing the elementary education program are eligible for initial teacher certification and endorsement to teach in K-6 classrooms. The program of study is divided into five areas: General Education, Professional Education Sequence, Related Content Courses, Elementary Professional requirements, and a concentration area. The concentrations enhance the knowledge, skills, and marketability of the prospective teacher.

Contact

212 Roskens Hall  
6001 Dodge Street  
Omaha, NE 68182-0163  
402.554.3666

Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/teacher-education/undergraduate/elementary-education.php>)

Elementary Education, Bachelor of Science in Education Requirements

| Code  | Title  | Credits      |
|---|--|--------------|
| <b>General Education Requirements - 34 Hours Required</b>   |  |              |
| Minimum of “C-”required   |  |              |
| <b>Fundamental Skills</b>   |  | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |  |              |
| ENGL 1150   | ENGLISH COMPOSITION I  |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY  |              |
| <b>Oral Communication – 3 hrs.</b>  |  |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS  |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE   |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                          |              |
| or MATH 1130  | QUANTITATIVE LITERACY  |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                              |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT   |              |
| <b>Data Literacy – 3 hrs.</b>   |  |              |
| Select one from the following:  |  |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION  |              |
| STAT 1530   | ELEMENTARY STATISTICS  |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |              |
| <b>Breadth of Knowledge</b>   |  | <b>13</b>    |
| Social Science - 3 hrs  |  |              |
| Humanities - 3 hrs  |  |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |              |
| Arts - 3 hrs  |  |              |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>     |
| Cultural Knowledge - 3 hrs  |  |              |
| Civic Knowledge and Engagement - 3 hrs  |  |              |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |  |              |
| <b>**Course will satisfy UNO's General Education requirement</b>  |  |              |
| <b>^Course requires pre-requisite(s)</b>  |  |              |
| <b>All of the following:</b>  |  | <b>69-70</b> |
| MTCH 2000   | MATHEMATICS FOR ELEMENTARY TEACHERS I (^)  |              |
| MTCH 2010   | MATHEMATICS FOR ELEMENTARY TEACHERS II (^)                                       |              |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)  |              |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                                  |              |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY  |              |
| TED 2300  | HUMAN GROWTH AND LEARNING (^)  |              |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)  |              |
| or TED 2410 & TED 2420  | FOUNDATIONS OF PLANNING FOR EFFECTIVE TEACHING and INTERMEDIATE FIELD EXPERIENCE |              |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                                      |              |
| CFAM 2500   | INTEGRATED ARTS FOR THE CLASSROOM TEACHER  |              |

|           |  |
|-----------|--|
| HEKI 2400 | HEALTH ED. & PHYSICAL ED. FOR THE ELEMENTARY SCHOOL TEACHER (^)    |
| TED 3350  | TEACHING AND ASSESSING READING IN ELEMENTARY SCHOOLS (^)           |
| TED 4330  | TEACHING OF MATHEMATICS: ELEMENTARY (^)                            |
| TED 4340  | TEACHING OF SCIENCE: ELEMENTARY (^)                                |
| TED 4310  | ASSESSMENT AND CLASSROOM MANAGEMENT FOR THE ELEMENTARY TEACHER (^) |
| TED 4320  | TEACHING OF SOCIAL STUDIES: ELEMENTARY (^)                         |
| TED 4350  | TEACHING OF READING AND LANGUAGE ARTS (^)                          |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)   |

**Concentration required:** **12**

Inclusive Educator or Child, Youth, and Community Science

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Optional Endorsement

A candidate in elementary education may elect to complete an additional endorsement program, instead of or in addition to a concentration.

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Education, Elementary Education Bachelor of Science Concentrations

- Child, Youth, and Community Science (p. 533) (non-certification education option) (p. 533)
- Inclusive Educator (p. 536)

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Education, Elementary Education Bachelor of Science Endorsements

- English as a Second Language (p. 538)
- Special Education (p. 540)

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Child, Youth, and Community Science (non-certification education option)

### Elementary Education, Bachelor of Science in Education - Child, Youth, and Community Science Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |

|   |   |
|---|---|
| Humanities - 3 hrs  |   |
| Natural & Physical Science (must complete a lab) – 4 hrs. |   |
| Arts - 3 hrs  |   |
| <b>Individual and Social Responsibility</b>               | <b>6</b>  |
| Cultural Knowledge - 3 hrs                                |   |
| Civic Knowledge and Engagement - 3 hrs                    |   |
| <b>MAJOR REQUIREMENTS - 45 Hours Required</b>             |   |
| **Course will satisfy UNO's General Education requirement |   |
| ^Course requires pre-requisite(s)                         |   |
| <b>All of the following:</b>                              | <b>45</b>   |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^ Grade of C or higher required)                                     |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)   |
| TED 2300  | HUMAN GROWTH AND LEARNING (^)   |
| TED 2050  | INTRODUCTION TO TEACHING ENGLISH AS A SECOND LANGUAGE (^)                                     |
| TED 2060  | EQUITY, LANGUAGE, AND CULTURAL LITERACY (^)   |
| TED 2360<br>or TED 4660                                   | CHILDREN'S LITERATURE (^)<br>YOUNG ADULT LITERATURE   |
| TED 2250  | INTRODUCTION TO EARLY CHILDHOOD EDUCATION   |
| TED 2310  | FAMILY-CENTERED PARTNERSHIPS (^)  |
| TED 2350  | PLAY IN EARLY CHILDHOOD INCLUSIVE EDUCATION (^)   |
| TED 3100  | COMMUNITY EDUCATION:<br>TEACHING & PRACTICE IN INFORMAL ENVIRONMENTS                          |
| SPED 1500   | INTRODUCTION TO SPECIAL EDUCATION (** ^)  |
| SPED 4010   | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (^)                                  |
| COUN 2020<br>or SPED 4650                                 | INTRODUCTION TO COUNSELING THEORY AND PSYCHOTHERAPY (^)<br>TRANSITION PLANNING                |
| TED 4700  | EDUCATION CAPSTONE (^)  |
| <b>Select 4 of the Following</b>                          | <b>12</b>   |
| HEKI 2400   | HEALTH ED. & PHYSICAL ED. FOR THE ELEMENTARY SCHOOL TEACHER (^ Grade of C or higher required) |
| HEKI 3090   | APPLIED NUTRITION (**)  |
| PHHB 2070   | SUBSTANCE ABUSE AND MISUSE: PREVENTION AND MANAGEMENT   |
| PHHB 4650   | GLOBAL HEALTH (**)  |
| ACCT 2000   | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS (** ^)  |
| CMST 2300   | INTERGROUP DIALOGUE (*)   |
| CMST 4150   | ORGANIZATIONAL TRAINING AND DEVELOPMENT (^)   |
| CMST 4160   | COMMUNICATION FOR INSTRUCTIONAL SETTINGS (^)  |
| CRCJ 3370   | JUVENILE DELINQUENCY AND JUVENILE JUSTICE   |
| PHHB 3080   | HUMAN SEXUALITY   |
| PSYC 2500   | LIFESPAN PSYCHOLOGY   |
| PSYC 4630<br>or PSYC 4640                                 | ORGANIZATIONAL PSYCHOLOGY<br>PERSONNEL PSYCHOLOGY   |
| PSYC 4440   | ABNORMAL PSYCHOLOGY   |
| SOC 2150  | SOCIOLOGY OF FAMILIES (*)   |

|  |                     |    |
|--|---------------------|----|
| TED 2500   | DIGITAL CITIZENSHIP |    |
| Required courses: SOWK 1000 or SOWK 1500, PA 3500, CMST 2010 or 2410, Approved course - see advisor for list |                     | 12 |
| Grade of C or higher required  |                     |    |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Elementary Education, Bachelor of Science in Education - Child, Youth, and Community Science Concentration Four Year Plan

**Freshman**

| Fall  |  | Credits |
|---|--|---------|
| ENGL 1150<br>or ENGL 1140                                 | ENGLISH COMPOSITION I<br>or COLLEGE WRITING AND RHETORIC I WITH SUPPORT  | 3       |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE   | 3       |
| MATH 1300<br>or MATH 1120<br>or MATH 1130<br>or MATH 1140 | COLLEGE ALGEBRA WITH SUPPORT<br>or INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY<br>or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS | 3-4     |
| Humanities  |  | 3       |
| Arts  |  | 3       |
| Attend welcome events; other campus events                |  |         |
| Advising appointment for spring: Sept. - Oct.             |  |         |

**Credits 15-16****Spring**

|                                   |   |   |
|-----------------------------------|---|---|
| ENGL 1160                         | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| TED 2100                          | EDUCATIONAL FOUNDATIONS                   | 3 |
| TED 2200                          | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS  | 3 |
| SPED 1500                         | INTRODUCTION TO SPECIAL EDUCATION         | 3 |
| Natural/Physical Science with Lab |   | 4 |

Advising appointment for fall: February – March

Join student group

Given number of elective hours needed, explore adding minor to degree; this is a chance for a student to customize their program of study to their career goals.

Apply to CYCS non-teacher certification program by summer deadline June 1.

**Credits 16****Sophomore****Fall**

|          |   |   |
|----------|---|---|
| TED 2300 | HUMAN GROWTH AND LEARNING                             | 3 |
| TED 2250 | INTRODUCTION TO EARLY CHILDHOOD EDUCATION             | 3 |
| TED 2350 | PLAY IN EARLY CHILDHOOD INCLUSIVE EDUCATION           | 3 |
| TED 2050 | INTRODUCTION TO TEACHING ENGLISH AS A SECOND LANGUAGE | 3 |

Data Literacy 3

Advising appointment for spring: Sept. - Oct.

|   |   |           |
|---|---|-----------|
| Gain employment or volunteer work with populations that serve children, families, youth, individuals with disabilities, etc. in the community/nonprofit sector. |   |           |
| <b>Credits</b>  |   | <b>15</b> |
| <b>Spring</b>   |   |           |
| TED 2310  | FAMILY-CENTERED PARTNERSHIPS  | 3         |
| CMST 2010<br>or CMST 2410   | INTERPERSONAL COMMUNICATION<br>or SMALL GROUP COMMUNICATION<br>AND LEADERSHIP | 3         |
| TED 2360<br>or TED 4660   | CHILDREN'S LITERATURE<br>or YOUNG ADULT LITERATURE                            | 3         |
| Cultural Knowledge  |   | 3         |
| Elective for degree   |   | 3         |
| <b>Credits</b>  |   | <b>15</b> |
| <b>Summer</b>   |   |           |
| Elective for degree   |   | 3         |
| Social Science  |   | 3         |
| Advising appointment for fall: February – March.  |   |           |
| <b>Credits</b>  |   | <b>6</b>  |
| <b>Junior</b>   |   |           |
| <b>Fall</b>   |   |           |
| TED 3100  | COMMUNITY EDUCATION:<br>TEACHING & PRACTICE IN INFORMAL<br>ENVIRONMENTS       | 3         |
| TED 2060  | EQUITY, LANGUAGE, AND CULTURAL<br>LITERACY                                    | 3         |
| SOWK 1000<br>or SOWK 1500   | SOCIAL WORK AND SOCIAL WELFARE<br>or SOCIAL WORK AND CIVIC<br>ENGAGEMENT      | 3         |
| Child, Youth, and Community Science Core course. Pick from approved list. #1 of 4 <sup>1</sup>  |   | 3         |
| Advising appointment for spring: Sept. - Oct.   |   |           |
| Visit Career Services for resume/cover letter building and editing  |   |           |
| Begin to identify where you would like your community internship to be.   |   |           |
| <b>Credits</b>  |   | <b>12</b> |
| <b>Spring</b>   |   |           |
| Civic Knowledge and Engagement  |   | 3         |
| PA 3500   | NONPROFIT ORGANIZATIONS AND<br>MANAGEMENT                                     | 3         |

|  |  |           |
|--|--|-----------|
| BLST 1000  | INTRODUCTION TO BLACK STUDIES  | 3         |
| or BLST 2100   | or EXPERIENCES IN BLACK STUDIES  |           |
| or BLST 2510   | or MUSIC AND THE BLACK<br>EXPERIENCE   |           |
| or CMST 3750   | or GENDER AND COMMUNICATION  |           |
| or CMST 4530   | or INTERCULTURAL<br>COMMUNICATION & POWER  |           |
| or ENGL 1030   | or US CULTURES IN LITERATURE   |           |
| or FLNG 1000   | or LINGUISTIC DIVERSITY IN US<br>MEDIA   |           |
| or GEOG 1020   | or INTRODUCTION TO HUMAN<br>GEOGRAPHY  |           |
| or GERO 2000   | or INTRODUCTION TO<br>GERONTOLOGY  |           |
| or LLS 1000  | or LATIN AMERICA: AN<br>INTRODUCTION   |           |
| or LLS 1020  | or INTRODUCTION TO CHICANO/<br>LATINO STUDIES                                      |           |
| or LLS 2810  | or MUSIC IN LATIN AMERICAN<br>CULTURE  |           |
| or NAMS 1100   | or INTRODUCTION TO NATIVE<br>AMERICAN STUDIES                                      |           |
| or RELI 1010   | or RELIGIONS OF THE WORLD  |           |
| or RELI 2020   | or RELIGION AND HUMAN RIGHTS   |           |
| or SOWK 2120   | or RACE, CLASS AND GENDER IN<br>THE UNITED STATES                                  |           |
| or SOC 3300  | or SOCIOLOGY OF GENDER   |           |
| or SOC 3700  | or INTRODUCTION TO LGBTQ<br>STUDIES  |           |
| or SOC 3900  | or RACE AND ETHNIC RELATIONS IN<br>THE U.S.  |           |
| or SOC 4210  | or DISABILITY AND SOCIETY  |           |
| or SOC 4550  | or ORGANIZATIONAL DIVERSITY<br>AND INCLUSION                                       |           |
| or SOC 4740  | or SOCIAL JUSTICE AND SOCIAL<br>CHANGE   |           |
| or WGST 2010   | or INTRODUCTION TO WOMEN'S<br>AND GENDER STUDIES: SOCIAL AND<br>BEHAVIORAL SCIENCE |           |
| or WGST 2020   | or INTRODUCTION TO WOMEN'S<br>AND GENDER STUDIES: HUMANITIES                       |           |
| Elective for degree  |  | 3         |
| Child, Youth, and Community Science Core course. Pick from approved list. #2 of 4 <sup>1</sup>   |  | 3         |
| Advising appointment for fall: February – March  |  |           |
| IF applying to graduate school, prepare to apply to graduate schools in summer prior to senior year: Take GRE exam junior summer, write personal statement, update resume, get application process organized, and think about who would write letters of recommendation. |  |           |
| <b>Credits</b>   |  | <b>15</b> |
| <b>Senior</b>  |  |           |
| <b>Fall</b>  |  |           |
| SPED 4650<br>or COUN 2020  | TRANSITION PLANNING<br>or INTRODUCTION TO COUNSELING<br>THEORY AND PSYCHOTHERAPY   | 3         |
| SPED 4010  | MENTAL HEALTH IN SCHOOLS: RISK<br>FACTORS AND INTERVENTIONS                        | 3         |
| Child, Youth, and Community Science Core course. Pick from approved list. #3 of 4 <sup>1</sup>   |  | 3         |
| Elective for degree  |  | 3         |
| Elective for degree  |  | 2         |
| Advising appointment for spring: Sept. - Oct.  |  |           |



Submit internship application online by September 15. Must have internship finalized and internship forms signed and submitted to advising office (Roskens Hall 204) by December 1st.

Attend internship orientation in late November/early December.

IF applying to a graduate program, prepare to submit graduate school applications by December or prior to university deadline. Ask for letters of recommendation in October.

|  | Credits              | 14             |
|--|----------------------|----------------|
| <b>Spring</b>  |                      |                |
| TED 4700   | EDUCATION CAPSTONE   | 6              |
| Child, Youth, and Community Science Core course. Pick from approved list. #4 of 4 <sup>1</sup> |                      | 3              |
| Elective   |                      | 3              |
| Apply for graduation by deadline.  |                      |                |
|  | <b>Credits</b>       | <b>12</b>      |
|  | <b>Total Credits</b> | <b>120-121</b> |

<sup>1</sup> Family & Community Core Classes (pick 5 from list) : HEKI 2400, HEKI 3090, PHHB 4650, PHHB 3310, ACCT 2000, CMST 2010 or CMST 2410, CMST 4150, CMST 4160, SOWK 1500, PA 3500, COUN 2020

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

The BS in Elementary Education – Child, Youth, & Community Science Concentration does not lead to teacher certification. Students in the Teacher Education Department have the flexibility to earn an education degree without pursuing teacher certification. Students will complete 120 credit hours of coursework including a capstone course with 200-hour internship (TED 4700 Education Capstone). Flexibility exists for minor programs and elective credits. For list of approved Child, Youth, & Community Science concentration courses, view the current degree worksheet and program website here:

<https://www.unomaha.edu/college-of-education-health-and-human-sciences/student-services/certification/non-cert-education.php>

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.5 cumulative and major GPA

**Graduation Requirements:** Students must have a cumulative and major GPA of at least 2.5, no grade lower than "C" in required courses, and no incomplete in required courses to be recommended for graduation.

## Inclusive Educator Concentration Elementary Education, Bachelor of Science in Education - Inclusive Educator Concentration Requirements

| Code  | Title  | Credits      |
|---|--|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |  |              |
| Minimum of "C-" required  |  |              |
| <b>Fundamental Skills</b>   |  | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |  |              |
| ENGL 1150   | ENGLISH COMPOSITION I  |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY  |              |
| <b>Oral Communication – 3 hrs.</b>  |  |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS  |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE   |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                            |              |
| or MATH 1130  | QUANTITATIVE LITERACY  |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS                                |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT   |              |
| <b>Data Literacy – 3 hrs.</b>   |  |              |
| Select one from the following:  |  |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION  |              |
| STAT 1530   | ELEMENTARY STATISTICS  |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |              |
| <b>Breadth of Knowledge</b>   |  | <b>13</b>    |
| Social Science – 3 hrs.   |  |              |
| Humanities – 3 hrs.   |  |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |              |
| Arts – 3 hrs.   |  |              |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |  |              |
| Civic Knowledge and Engagement – 3 hrs.   |  |              |
| <b>MAJOR REQUIREMENTS - 70-71 Hours Required</b>  |  |              |
| **Course will satisfy UNO's General Education requirement   |  |              |
| ^Course requires pre-requisite(s)   |  |              |
| <b>All of the following:</b>  |  | <b>68-69</b> |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (^ if not taken in Gen Ed) |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT   |              |

|   |  |
|---|--|
| MTCH 2000   | MATHEMATICS FOR ELEMENTARY TEACHERS I (^)  |
| MTCH 2010   | MATHEMATICS FOR ELEMENTARY TEACHERS II (^)                                       |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)  |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                                  |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY  |
| TED 2300  | HUMAN GROWTH AND LEARNING (^)  |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)  |
| or TED 2410 & TED 2420                                  | FOUNDATIONS OF PLANNING FOR EFFECTIVE TEACHING and INTERMEDIATE FIELD EXPERIENCE |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                                      |
| CFAM 2500   | INTEGRATED ARTS FOR THE CLASSROOM TEACHER  |
| HEKI 2400   | HEALTH ED. & PHYSICAL ED. FOR THE ELEMENTARY SCHOOL TEACHER (^)                  |
| TED 3350  | TEACHING AND ASSESSING READING IN ELEMENTARY SCHOOLS (^)                         |
| TED 4330  | TEACHING OF MATHEMATICS: ELEMENTARY (^)  |
| TED 4340  | TEACHING OF SCIENCE: ELEMENTARY (^)  |
| TED 4310  | ASSESSMENT AND CLASSROOM MANAGEMENT FOR THE ELEMENTARY TEACHER (^)               |
| TED 4320  | TEACHING OF SOCIAL STUDIES: ELEMENTARY (^)                                       |
| TED 4350  | TEACHING OF READING AND LANGUAGE ARTS (^)  |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)                 |
| <b>Inclusive Educator Concentration Requirements 12</b> |  |
| TED 2050  | INTRODUCTION TO TEACHING ENGLISH AS A SECOND LANGUAGE                            |
| TED 2060  | EQUITY, LANGUAGE, AND CULTURAL LITERACY  |
| SPED 4010   | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS                         |
| SPED 4810   | BEHAVIOR INTERVENTIONS AND SUPPORTS  |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**Freshman**

| <b>Fall</b>                    |                       | <b>Credits</b> |
|--------------------------------|-----------------------|----------------|
| ENGL 1150                      | ENGLISH COMPOSITION I | 3              |
| CMST 1110                      | PUBLIC SPEAKING FUNDS | 3              |
| Humanities                     |                       | 3              |
| Cultural Knowledge             |                       | 3              |
| PEA Elective or other 1 credit |                       | 1              |
| <b>Credits</b>                 |                       | <b>13</b>      |

**Spring**

|                        |   |   |
|------------------------|---|---|
| ENGL 1160              | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| General Education Math |   | 3 |
| TED 2100               | EDUCATIONAL FOUNDATIONS                   | 3 |
| TED 2060               | EQUITY, LANGUAGE, AND CULTURAL LITERACY   | 3 |

|                |           |
|----------------|-----------|
| Social Science | 3         |
| <b>Credits</b> | <b>15</b> |

**Sophomore****Fall**

|  |           |
|--|-----------|
| Data Literacy                                  | 3         |
| Arts General Education Course                  | 3         |
| Elective                                       | 3         |
| Natural Science                                | 4         |
| PEA Elective or other 1 credit                 | 1         |
| Apply to Ed. Prep. Program by October 1, 2026. |           |
| <b>Credits</b>                                 | <b>14</b> |

**Spring**

|                          |  |   |
|--------------------------|--|---|
| TED 2300                 | HUMAN GROWTH AND LEARNING                                | 3 |
| TED 2400                 | PLANNING FOR EFFECTIVE TEACHING                          | 6 |
| Elective                 |  | 3 |
| TED 2050                 | INTRODUCTION TO TEACHING ENGLISH<br>AS A SECOND LANGUAGE | 3 |
| Earn & maintain 2.75 GPA |  |   |

**Junior****Fall**

|                           |   |   |
|---------------------------|---|---|
| MTCH 2000                 | MATHEMATICS FOR ELEMENTARY TEACHERS I                       | 3 |
| CFAM 2500                 | INTEGRATED ARTS FOR THE CLASSROOM TEACHER                   | 1 |
| HEKI 2400                 | HEALTH ED. & PHYSICAL ED. FOR THE ELEMENTARY SCHOOL TEACHER | 2 |
| SPED 3800                 | DIFFERENTIATION AND INCLUSIVE PRACTICES                     | 3 |
| Elective                  |   | 3 |
| Elective                  |   | 3 |
| Use tutors for MTCH class |   |   |

**Spring**

|           |  |   |
|-----------|--|---|
| TED 3350  | TEACHING AND ASSESSING READING IN ELEMENTARY SCHOOLS | 6 |
| TED 4330  | TEACHING OF MATHEMATICS: ELEMENTARY                  | 3 |
| TED 4340  | TEACHING OF SCIENCE: ELEMENTARY                      | 3 |
| MTCH 2010 | MATHEMATICS FOR ELEMENTARY TEACHERS II               | 3 |

|   |           |
|---|-----------|
| Continue professional experience with youth & update resume using UNO Career Services |           |
| <b>Credits</b>  | <b>15</b> |

**Summer**

|                              |  |   |
|------------------------------|--|---|
| SPED 4010                    | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS | 3 |
| Civic Knowledge & Engagement |  | 3 |

|                |          |
|----------------|----------|
| <b>Credits</b> | <b>6</b> |
|----------------|----------|

**Senior****Fall**

|          |  |   |
|----------|--|---|
| TED 4310 | ASSESSMENT AND CLASSROOM MANAGEMENT FOR THE ELEMENTARY TEACHER | 3 |
| TED 4320 | TEACHING OF SOCIAL STUDIES: ELEMENTARY                         | 3 |
| TED 4350 | TEACHING OF READING AND LANGUAGE ARTS                          | 6 |

|  |  |            |
|--|--|------------|
| SPED 4810  | BEHAVIOR INTERVENTIONS AND SUPPORTS                          | 3          |
| Apply to Clinical Practice Take Praxis II, #5017       |  |            |
| <b>Credits</b>   |  | <b>15</b>  |
| <b>Spring</b>  |  |            |
| TED 4600   | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12         |
| Student teaching semester - Starts 1st week of January |  |            |
| All courses need to be completed prior to TED 4600     |  |            |
| <b>Credits</b>   |  | <b>12</b>  |
| <b>Total Credits</b>                                   |  | <b>120</b> |

## English as a Second Language Endorsement

### Elementary Education, Bachelor of Science Education - English as a Second Language Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |   |           |
| *Course will satisfy UNO's General Education requirement  |   |           |
| ^Course requires pre-requisite(s)   |   |           |

#### All of the following: 69-70

|  |  |           |
|--|--|-----------|
| MTCH 2000  | MATHEMATICS FOR ELEMENTARY TEACHERS I (^)  |           |
| MTCH 2010  | MATHEMATICS FOR ELEMENTARY TEACHERS II (^)                                       |           |
| TED 2100   | EDUCATIONAL FOUNDATIONS (^)  |           |
| TED 2200   | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                                  |           |
| or TED 2060  | EQUITY, LANGUAGE, AND CULTURAL LITERACY  |           |
| TED 2300   | HUMAN GROWTH AND LEARNING (^)  |           |
| TED 2400   | PLANNING FOR EFFECTIVE TEACHING (^)  |           |
| or TED 2410 & TED 2420                                       | FOUNDATIONS OF PLANNING FOR EFFECTIVE TEACHING and INTERMEDIATE FIELD EXPERIENCE |           |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                                      |           |
| HEKI 2400  | HEALTH ED. & PHYSICAL ED. FOR THE ELEMENTARY SCHOOL TEACHER (^)                  |           |
| CFAM 2500  | INTEGRATED ARTS FOR THE CLASSROOM TEACHER  |           |
| TED 3350   | TEACHING AND ASSESSING READING IN ELEMENTARY SCHOOLS (^)                         |           |
| TED 4330   | TEACHING OF MATHEMATICS: ELEMENTARY (^)  |           |
| TED 4340   | TEACHING OF SCIENCE: ELEMENTARY (^)  |           |
| TED 4310   | ASSESSMENT AND CLASSROOM MANAGEMENT FOR THE ELEMENTARY TEACHER (^)               |           |
| TED 4320   | TEACHING OF SOCIAL STUDIES: ELEMENTARY (^)                                       |           |
| TED 4350   | TEACHING OF READING AND LANGUAGE ARTS (^)  |           |
| TED 4600   | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)                 |           |
| <b>English as a Second Language Endorsement Requirements</b> |  | <b>15</b> |
| TED 2050   | INTRODUCTION TO TEACHING ENGLISH AS A SECOND LANGUAGE (^)                        |           |
| TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY (^)                                      |           |
| TED 3050   | FOUNDATIONS OF TEACHING ENGLISH AS A SECOND LANGUAGE (ESL) (^)                   |           |
| TED 4120   | READING & WRITING IN ELEMENTARY CONTENT AREAS (^)                                |           |
| TED 4000   | SPECIAL METHODS IN THE CONTENT AREA (^)  |           |

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

**Freshman**

| <b>Fall</b>               |  | <b>Credits</b> |
|---------------------------|--|----------------|
| ENGL 1150<br>or ENGL 1140 | ENGLISH COMPOSITION I<br>or COLLEGE WRITING AND RHETORIC<br>I WITH SUPPORT | 3              |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                       | 3              |
| Humanities                |  | 3              |
| Cultural Knowledge        |  | 3              |
| Elective                  |  | 3              |
| <b>Credits</b>            |  | <b>15</b>      |

**Spring**

|                        |  |           |
|------------------------|--|-----------|
| ENGL 1160              | COLLEGE RESEARCH AND<br>INFORMATION LITERACY | 3         |
| General Education Math |  | 3         |
| TED 2100               | EDUCATIONAL FOUNDATIONS                      | 3         |
| TED 2060               | EQUITY, LANGUAGE, AND CULTURAL<br>LITERACY   | 3         |
| Social Science         |  | 3         |
| <b>Credits</b>         |  | <b>15</b> |

**Sophomore**

| <b>Fall</b>                                    |  |   |
|--|--|---|
| Data Literacy                                  |  | 3 |
| Arts   |  | 3 |
| Natural/ Physical Science with Lab             |  | 4 |
| Elective                                       |  | 2 |
| Apply to Ed. Prep. Program by October 1, 2026. |  |   |

**Credits** **12**

**Spring**

|                          |  |           |
|--------------------------|--|-----------|
| TED 2300                 | HUMAN GROWTH AND LEARNING                                | 3         |
| TED 2400                 | PLANNING FOR EFFECTIVE TEACHING                          | 6         |
| TED 2050                 | INTRODUCTION TO TEACHING ENGLISH<br>AS A SECOND LANGUAGE | 3         |
| Elective                 |  | 3         |
| Earn & maintain 2.75 GPA |  |           |
| <b>Credits</b>           |  | <b>15</b> |

**Summer**

|                              |  |          |
|------------------------------|--|----------|
| TED 4120                     | READING & WRITING IN ELEMENTARY<br>CONTENT AREAS | 3        |
| Civic Knowledge & Engagement |  | 3        |
| <b>Credits</b>               |  | <b>6</b> |

**Junior**

| <b>Fall</b>               |  |           |
|---------------------------|--|-----------|
| MTCH 2000                 | MATHEMATICS FOR ELEMENTARY<br>TEACHERS I                       | 3         |
| CFAM 2500                 | INTEGRATED ARTS FOR THE<br>CLASSROOM TEACHER                   | 1         |
| HEKI 2400                 | HEALTH ED. & PHYSICAL ED. FOR THE<br>ELEMENTARY SCHOOL TEACHER | 2         |
| SPED 3800                 | DIFFERENTIATION AND INCLUSIVE<br>PRACTICES                     | 3         |
| TED 3050                  | FOUNDATIONS OF TEACHING ENGLISH<br>AS A SECOND LANGUAGE (ESL)  | 3         |
| Elective                  |  | 3         |
| Use tutors for MTCH class |  |           |
| <b>Credits</b>            |  | <b>15</b> |

**Spring**

|  |   |           |
|--|---|-----------|
| TED 3350   | TEACHING AND ASSESSING READING IN<br>ELEMENTARY SCHOOLS | 6         |
| TED 4330   | TEACHING OF MATHEMATICS:<br>ELEMENTARY                  | 3         |
| TED 4340   | TEACHING OF SCIENCE: ELEMENTARY                         | 3         |
| MTCH 2010  | MATHEMATICS FOR ELEMENTARY<br>TEACHERS II               | 3         |
| Continue professional experience with youth & update<br>resume using UNO Career Services |   |           |
| <b>Credits</b>   |   | <b>15</b> |

**Senior**

| <b>Fall</b>                                      |  |           |
|--|--|-----------|
| TED 4310   | ASSESSMENT AND CLASSROOM<br>MANAGEMENT FOR THE ELEMENTARY<br>TEACHER | 3         |
| TED 4320   | TEACHING OF SOCIAL STUDIES:<br>ELEMENTARY                            | 3         |
| TED 4350   | TEACHING OF READING AND<br>LANGUAGE ARTS                             | 6         |
| TED 4000   | SPECIAL METHODS IN THE CONTENT<br>AREA                               | 3         |
| Apply to Clinical Practice Take Praxis II, #5017 |  |           |
| <b>Credits</b>                                   |  | <b>15</b> |

**Spring**

|  |   |            |
|--|---|------------|
| TED 4600   | CLINICAL PRACTICE AND SEMINAR:<br>ELEMENTARY OR SECONDARY LEVEL | 12         |
| Student teaching semester - Starts 1st week of January |   |            |
| All courses need to be completed prior to TED 4600     |   |            |
| <b>Credits</b>   |   | <b>12</b>  |
| <b>Total Credits</b>                                   |   | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.  
This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on the 2025-2026 University of Nebraska undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** Cumulative 2.5 GPA for Educator Preparation Program initial acceptance, cumulative 2.75 GPA for formal admission and graduation.

#Professional education course: a grade of C or higher is required to pass the class.

**Graduation Requirements:** Students must have a cumulative GPA of at least 2.75, no grade lower than "C" in required courses, and no incomplete in required courses to be recommended for graduation.

## Special Education Endorsement

### Elementary Education, Bachelor of Science Education - Special Education Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 66 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>66</b> |
| MTCH 2000   | MATHEMATICS FOR ELEMENTARY TEACHERS I (^)               |           |
| MTCH 2010   | MATHEMATICS FOR ELEMENTARY TEACHERS II (^)              |           |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                             |           |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)         |           |

|   |  |           |
|---|--|-----------|
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY  |           |
| TED 2300  | HUMAN GROWTH AND LEARNING (^)  |           |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)  |           |
| HEKI 2400   | HEALTH ED. & PHYSICAL ED. FOR THE ELEMENTARY SCHOOL TEACHER (^)                                |           |
| CFAM 2500   | INTEGRATED ARTS FOR THE CLASSROOM TEACHER  |           |
| TED 3350  | TEACHING AND ASSESSING READING IN ELEMENTARY SCHOOLS (^)                                       |           |
| TED 4330  | TEACHING OF MATHEMATICS: ELEMENTARY (^)  |           |
| TED 4340  | TEACHING OF SCIENCE: ELEMENTARY (^)  |           |
| TED 4310  | ASSESSMENT AND CLASSROOM MANAGEMENT FOR THE ELEMENTARY TEACHER (^)                             |           |
| TED 4320  | TEACHING OF SOCIAL STUDIES: ELEMENTARY (^)   |           |
| TED 4350  | TEACHING OF READING AND LANGUAGE ARTS (^)  |           |
| TED 4650  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)                               |           |
| SPED 4700   | CLINICAL PRACTICE IN SPECIAL EDUCATION (^)   |           |
| <b>Special Education K-6 Endorsement Requirements</b> |  | <b>30</b> |
| SPED 1500   | INTRODUCTION TO SPECIAL EDUCATION (** ^)   |           |
| SPED 2300   | SPECIAL EDUCATION LAW & INDIVIDUAL EDUCATION PROGRAMS (^)                                      |           |
| SPED 3250   | SOCIAL, EMOTIONAL, AND BEHAVIORAL NEEDS OF CHILDREN WITH AUTISM AND DEVELOPMENTAL DISABILITIES |           |
| SPED 3020   | EFFECTIVE DATA COLLECTION FOR INSTRUCTIONAL DECISIONS IN SPECIAL EDUCATION (^)                 |           |
| SPED 4000   | PRACTICUM IN SPECIAL EDUCATION (^)   |           |
| SPED 4010   | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (^)                                   |           |
| SPED 4150   | READING AND WRITING INSTRUCTION FOR STUDENTS WITH DISABILITIES (^)                             |           |
| SPED 4640   | METHODS AND MATERIALS IN SPECIAL EDUCATION   |           |
| SPED 4710   | INTERACTIONS AND COLLABORATION (^)   |           |
| SPED 4810   | BEHAVIOR INTERVENTIONS AND SUPPORTS (^)  |           |

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

# Elementary Education, Bachelor of Science Education - Special Education Endorsement Four-Year Plan

## Freshman

| Fall                      |  | Credits   |
|---------------------------|--|-----------|
| ENGL 1150<br>or ENGL 1140 | ENGLISH COMPOSITION I<br>or COLLEGE WRITING AND RHETORIC<br>I WITH SUPPORT | 3         |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                       | 3         |
| Quantitative Literacy     |  | 3         |
| Humanities                |  | 3         |
| <b>Credits</b>            |  | <b>12</b> |

## Spring

|  |  |           |
|--|--|-----------|
| ENGL 1160                                | COLLEGE RESEARCH AND<br>INFORMATION LITERACY   | 3         |
| SPED 1500                                | INTRODUCTION TO SPECIAL<br>EDUCATION   | 3         |
| TED 2100                                 | EDUCATIONAL FOUNDATIONS  | 3         |
| TED 2200<br>or TED 2060                  | HUMAN RELATIONS FOR BIAS-FREE<br>CLASSROOMS<br>or EQUITY, LANGUAGE, AND<br>CULTURAL LITERACY | 3         |
| Arts                                     |  | 3         |
| Apply to Edu. Prep. Program by March 1st |  |           |
| <b>Credits</b>                           |  | <b>15</b> |

## Summer

|                                    |  |          |
|------------------------------------|--|----------|
| Natural/ Physical Science with Lab |  | 4        |
| Civic Knowledge & Engagement       |  | 3        |
| <b>Credits</b>                     |  | <b>7</b> |

## Sophomore

| Fall                     |  | Credits   |
|--------------------------|--|-----------|
| TED 2300                 | HUMAN GROWTH AND LEARNING                                | 3         |
| TED 2400                 | PLANNING FOR EFFECTIVE TEACHING                          | 6         |
| SPED 2300                | SPECIAL EDUCATION LAW &<br>INDIVIDUAL EDUCATION PROGRAMS | 3         |
| Data Literacy            |  | 3         |
| Earn & maintain 2.75 GPA |  |           |
| <b>Credits</b>           |  | <b>15</b> |

## Spring

|                           |  |           |
|---------------------------|--|-----------|
| MTCH 2000                 | MATHEMATICS FOR ELEMENTARY<br>TEACHERS I                       | 3         |
| SPED 4810                 | BEHAVIOR INTERVENTIONS AND<br>SUPPORTS                         | 3         |
| SPED 4710                 | INTERACTIONS AND COLLABORATION                                 | 3         |
| HEKI 2400                 | HEALTH ED. & PHYSICAL ED. FOR THE<br>ELEMENTARY SCHOOL TEACHER | 2         |
| CFAM 2500                 | INTEGRATED ARTS FOR THE<br>CLASSROOM TEACHER                   | 1         |
| Elective                  |  | 2         |
| Use tutors for MTCH class |  |           |
| <b>Credits</b>            |  | <b>14</b> |

## Junior

| Fall     |   | Credits |
|----------|---|---------|
| TED 3350 | TEACHING AND ASSESSING READING IN<br>ELEMENTARY SCHOOLS | 6       |

|           |   |   |
|-----------|---|---|
| TED 4330  | TEACHING OF MATHEMATICS:<br>ELEMENTARY    | 3 |
| TED 4340  | TEACHING OF SCIENCE: ELEMENTARY           | 3 |
| MTCH 2010 | MATHEMATICS FOR ELEMENTARY<br>TEACHERS II | 3 |

|   |  |           |
|---|--|-----------|
| Continue professional experience with youth |  |           |
| <b>Credits</b>                              |  | <b>15</b> |

## Spring

|   |  |           |
|---|--|-----------|
| SPED 3020   | EFFECTIVE DATA COLLECTION FOR<br>INSTRUCTIONAL DECISIONS IN SPECIAL<br>EDUCATION                     | 3         |
| SPED 4000   | PRACTICUM IN SPECIAL EDUCATION   | 3         |
| SPED 4640   | METHODS AND MATERIALS IN SPECIAL<br>EDUCATION  | 3         |
| SPED 3250   | SOCIAL, EMOTIONAL, AND BEHAVIORAL<br>NEEDS OF CHILDREN WITH AUTISM<br>AND DEVELOPMENTAL DISABILITIES | 3         |
| SPED 4010   | MENTAL HEALTH IN SCHOOLS: RISK<br>FACTORS AND INTERVENTIONS  | 3         |
| Update resume using UNO Career Services                     |  |           |
| All courses need to be completed prior to Clinical Practice |  |           |
| <b>Credits</b>  |  | <b>15</b> |

## Senior

| Fall  |  | Credits   |
|---|--|-----------|
| TED 4310  | ASSESSMENT AND CLASSROOM<br>MANAGEMENT FOR THE ELEMENTARY<br>TEACHER | 3         |
| TED 4320  | TEACHING OF SOCIAL STUDIES:<br>ELEMENTARY                            | 3         |
| TED 4350  | TEACHING OF READING AND<br>LANGUAGE ARTS                             | 6         |
| SPED 4150   | READING AND WRITING INSTRUCTION<br>FOR STUDENTS WITH DISABILITIES    | 3         |
| Apply to Clinical Practice; Take Praxis II, #5017 & #5355 |  |           |
| <b>Credits</b>  |  | <b>15</b> |

## Spring

|   |   |            |
|---|---|------------|
| TED 4650  | CLINICAL PRACTICE AND SEMINAR:<br>ELEMENTARY OR SECONDARY LEVEL | 6          |
| SPED 4700   | CLINICAL PRACTICE IN SPECIAL<br>EDUCATION                       | 6          |
| Student teaching semester- Starts 1st week of January |   |            |
| Apply for Graduation                                  |   |            |
| <b>Credits</b>  |   | <b>12</b>  |
| <b>Total Credits</b>                                  |   | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

## Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on the [2025-2026](#) catalog.



**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

**\*\*Transfer credit or placement exam scores may change suggested plan of study**

**GPA Requirements:**  
2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

**# Professional education course:** a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Education - Library Science, Bachelor of Science

The library science program is designed to prepare candidates for employment in 21st century public, academic and special libraries, and information agencies. The library science courses engage candidates in classroom, field site, and service experiences that support the development of the personal, professional and technical skills and dispositions required to work effectively with patrons in today's diverse communities.

### Contact

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Omaha, NE 68182-0163  
402.554.3666

Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/teacher-education/>)

## Library Science, Bachelor of Science in Education Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of “C-“required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |

|   |  |
|---|--|
| or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT   |  |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |
| STAT 1530   | ELEMENTARY STATISTICS                                      |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge</b>   |  |
| <b>13</b>   |  |
| Social Science - 3 hrs  |  |
| Humanities - 3 hrs  |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts - 3 hrs  |  |
| <b>Individual and Social Responsibility</b>   |  |
| <b>6</b>  |  |
| Cultural Knowledge - 3 hrs  |  |
| Civic Knowledge and Engagement - 3 hrs  |  |
| <b>MAJOR REQUIREMENTS - 30 Hours Required</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following:</b>  |  |
| <b>30</b>   |  |
| TED 2160  | INTRODUCTION TO LIBRARY SERVICES                           |
| TED 2360  | CHILDREN'S LITERATURE (^)                                  |
| TED 4590  | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS              |
| TED 4660  | YOUNG ADULT LITERATURE                                     |
| TED 4710  | RESEARCH AND INQUIRY                                       |
| TED 2500  | DIGITAL CITIZENSHIP  |
| TED 4740  | ORGANIZATION OF INFORMATION (^)                            |
| TED 3760  | ADULT SERVICES, PROGRAMMING, AND OUTREACH IN LIBRARIES (^) |
| TED 4800  | LEADERSHIP AND MANAGEMENT IN LIBRARIES                     |
| TED 4570  | LIBRARY SCIENCE CAPSTONE (^)                               |
| <b>Select 1 Technology course</b>   |  |
| <b>3</b>  |  |
| <b>Select 4 Literacy course</b>   |  |
| <b>12</b>   |  |
| <b>Select 4 Human Relations course</b>  |  |
| <b>12</b>   |  |
| <b>Required Minor</b>   |  |
| <b>15</b>   |  |
| <b>ELECTIVES</b>  |  |
| Elective hours as required to reach a total of 120 hours  |  |

A minimum grade of "C" must be earned in all professional TED courses, Technology electives, Literacy electives, and Human Relations electives.  
All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to graduation. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

A minimum GPA of 2.75 or higher is required in order to graduate from the Library Science program.

# Library Science, Bachelor of Science in Education Four Year Plan

## Freshman

| Fall  |  | Credits   |
|---|--|-----------|
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3         |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| Social Science  |  | 3         |
| Humanities  |  | 3         |
| Cultural Knowledge  |  | 3         |
| Attend Welcome Week events; other campus events   |  |           |
| Advising appointment for spring: Sept. - Oct.   |  |           |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |  |           |
| <b>Credits</b>  |  | <b>15</b> |

## Spring

|   |   |           |
|---|---|-----------|
| ENGL 1160                                       | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Quantative Literacy                             |   | 3         |
| Arts  |   | 3         |
| Civic Knowledge and Engagement                  |   | 3         |
| Advising appointment for fall: February - March |   |           |
| Join a student organization                     |   |           |
| Elective  |   | 3         |
| <b>Credits</b>                                  |   | <b>15</b> |

## Sophomore

| Fall   |                                  | Credits   |
|--|----------------------------------|-----------|
| TED 2160   | INTRODUCTION TO LIBRARY SERVICES | 3         |
| TED 2500   | DIGITAL CITIZENSHIP              | 3         |
| Natural/Physical Science with Lab  |                                  | 4         |
| Elective   |                                  | 3         |
| Elective   |                                  | 3         |
| Advising appointment for spring: Sept. - Oct.                                      |                                  |           |
| Identify professional organization to get involved with. Begin resume development. |                                  |           |
| <b>Credits</b>   |                                  | <b>16</b> |

## Spring

|   |   |           |
|---|---|-----------|
| TED 2360  | CHILDREN'S LITERATURE                         | 3         |
| TED 4590  | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS | 3         |
| Elective  |   | 3         |
| Minor Course                                    |   | 3         |
| Literacy Elective                               |   | 3         |
| Advising appointment for fall: February - March |   |           |
| <b>Credits</b>                                  |   | <b>15</b> |

## Junior

| Fall  |                        | Credits   |
|---|------------------------|-----------|
| TED 4660                                      | YOUNG ADULT LITERATURE | 3         |
| TED 4710                                      | RESEARCH AND INQUIRY   | 3         |
| Minor Course                                  |                        | 3         |
| Human Relation Elective                       |                        | 3         |
| Literacy Elective                             |                        | 3         |
| Advising appointment for spring: Sept. - Oct. |                        |           |
| <b>Credits</b>                                |                        | <b>15</b> |

## Spring

|   |  |           |
|---|--|-----------|
| TED 3760  | ADULT SERVICES, PROGRAMMING, AND OUTREACH IN LIBRARIES | 3         |
| TED 4740  | ORGANIZATION OF INFORMATION                            | 3         |
| Minor Course                                    |  | 3         |
| Literacy Elective                               |  | 3         |
| Human Relations Elective                        |  | 3         |
| Advising appointment for fall: February - March |  |           |
| <b>Credits</b>                                  |  | <b>15</b> |

## Senior

| Fall  |  | Credits   |
|---|--|-----------|
| TED 4800                                      | LEADERSHIP AND MANAGEMENT IN LIBRARIES | 3         |
| Human Relations Elective                      |  | 3         |
| Literacy or Technology Elective               |  | 3         |
| Technology Elective                           |  | 3         |
| Minor Course                                  |  | 3         |
| Advising appointment for spring: Sept. - Oct. |  |           |
| <b>Credits</b>                                |  | <b>15</b> |

## Spring

|                          |                          |            |
|--------------------------|--------------------------|------------|
| TED 4570                 | LIBRARY SCIENCE CAPSTONE | 3          |
| Human Relations Elective |                          | 3          |
| Minor Course             |                          | 3          |
| Elective                 |                          | 3          |
| Elective                 |                          | 2          |
| Apply for graduation     |                          |            |
| <b>Credits</b>           |                          | <b>14</b>  |
| <b>Total Credits</b>     |                          | <b>120</b> |

This roadmap is a suggest, \* plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements:

2.5 minimum GPA to remain in College of Education, Health, and Human Sciences. 2.75 required to remain and progress in Library Science major.

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Education - Secondary Education, Bachelor of Science

The program in secondary education is designed to prepare candidates to meet Nebraska requirements for a related (5-9, 6-12 or 7-12) level teaching certificate or a PK-12 teaching certificate. The coursework for a Secondary Education Endorsement is divided into four areas: General Education, Endorsement Content, Professional Education Sequence, and Secondary Professional requirements. Secondary candidates must select one of the approved endorsement areas.

## Secondary Education, Bachelor of Science in Education Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| <b>Select one from the following:</b>   |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 42 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |

### All of the following:

42

|             |  |
|-------------|--|
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 2380    | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| TED 3550    | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690    | LITERACY AND LEARNING (^)  |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600    | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |

### Endorsement required

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Education, Secondary Education Bachelor of Science Concentrations

- Inclusive Practices (p. 545)
- Middle Level 5-9 (p. 545)

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Endorsements Offered

Candidates seeking 5-9, 6-12, 7-12 or PK-12 certification must complete one of the endorsements below.

- Biology (7-12) Endorsement (p. 549)
- Business, Marketing, Information Technology (BMIT) (6-12) Endorsement (p. 551)
- Chemistry (7-12) Endorsement (p. 553)

- Secondary English (7-12) with ESL Supplemental Endorsement (p. 557)
- Secondary English (7-12) with Additional Subject Endorsement (p. 560)
- World Language - French (7-12) Endorsement (p. 561)
- World Language - German (7-12) Endorsement (p. 564)
- Language Arts/English (7-12) Endorsement (p. 555)
- Mathematics (6-12) Endorsement (p. 566)
- Middle Level (5-9) Endorsement (p. 568)
- Music (PK-12) Endorsement (p. 576)
- Physics (7-12) Endorsement (p. 576)
- Physical Education (PK-12) Endorsement (p. 578)
- Physical Education (7-12) and Health (7-12) Endorsement (p. 581)
- Science (7-12) Endorsement (p. 583)
- Social Science (7-12) Endorsement (p. 585)
- World Language - Spanish (7-12) Endorsement (p. 588)

## Dual Endorsement Programs Offered

Candidates may elect to complete a second endorsement as part of their secondary education program. These dual endorsements require two semesters of clinical practice (student teaching) and result in two teaching endorsements on the Nebraska teaching certificate. The following dual endorsements are available.

- Special Education (7-12) Endorsement (p. 590)

## Supplemental Endorsements Offered

Supplemental endorsements are content areas which can be added to a Nebraska teaching certificate in the presence of other earned endorsements. A supplemental endorsement cannot stand alone on an initial teaching certificate. The following supplemental endorsements are available.

- Coaching (7-12) Endorsement (p. 592)
- English as a Second Language (7-12) Endorsement (p. 591)
- Health Sciences Education (6-12) Endorsement (p. 593)
- Information Technology (PK-12) Endorsement (p. 593)

## Inclusive Practices Concentration

**Secondary Education Concentration in Inclusive Practices is optional that a student can add to a degree plan.**

| Code                  | Title  | Credits   |
|-----------------------|--|-----------|
| <b>Hours Required</b> |  | <b>12</b> |
| SPED 4010             | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (^)       |           |
| SPED 4150             | READING AND WRITING INSTRUCTION FOR STUDENTS WITH DISABILITIES (^) |           |
| SPED 4710             | INTERACTIONS AND COLLABORATION (^)                                 |           |

SPED 4810

BEHAVIOR INTERVENTIONS AND SUPPORTS (^)

## Middle Level 5-9

## Secondary Education, Bachelor Science in Education - Middle Level Endorsement (5-9) Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 100 Hours Required</b>  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>51</b> |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                             |           |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)         |           |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                 |           |
| TED 4120  | READING & WRITING IN ELEMENTARY CONTENT AREAS (^)       |           |
| TED 4370  | TEACHING AT THE MIDDLE LEVEL (^)                        |           |
| TED 4660  | YOUNG ADULT LITERATURE                                  |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)             |           |

|           |  |
|-----------|--|
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690  | LITERACY AND LEARNING (^)  |
| SPED 3800 | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |

## 2 Endorsements required 49-50

One must be Mathematics or Science

### Mathematics Endorsement - 26 Hours

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (**)    |
| or MATH 1130 | QUANTITATIVE LITERACY   |
| MATH 1320    | COLLEGE ALGEBRA (^)   |
| MATH 1330    | TRIGONOMETRY (^)  |
| MATH 1950    | CALCULUS I (^)  |
| MTCH 2020    | NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION |
| MATH 3850    | HISTORY OF MATHEMATICS (^)                                      |
| STAT 3000    | STATISTICAL METHODS I (^)                                       |
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING         |
| or MATH 1130 | QUANTITATIVE LITERACY   |
| or STAT 1100 | DATA LITERACY AND VISUALIZATION                                 |
| or STAT 1530 | ELEMENTARY STATISTICS   |

### Science Endorsement - 25 Hours

|           |   |
|-----------|---|
| BIOL 1020 | PRINCIPLES OF BIOLOGY (** can sub BIOL 1450)        |
| CHEM 1140 | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)            |
| CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) |
| GEOL 1170 | INTRODUCTION TO PHYSICAL GEOLOGY (**)               |
| GEOL 1180 | INTRODUCTION TO HISTORICAL GEOLOGY (^)              |
| PHYS 1030 | PHYSICS OF EVERYDAY LIFE (** ^)                     |
| PHYS 1034 | PHYSICS OF EVERYDAY LIFE LABORATORY (** ^)          |
| PHYS 1350 | PRINCIPLES OF ASTRONOMY (** ^)                      |
| PHYS 1354 | INTRODUCTORY ASTRONOMY LAB (** ^)                   |

### English Language Arts - 24 Hours

|           |  |
|-----------|--|
| TED 3750  | TEACHING GRAMMAR IN CONTEXT (^)  |
| TED 4610  | TEACHING OF WRITING THROUGHOUT THE CURRICULUM                            |
| ENGL 4960 | TOPICS IN LANGUAGE AND LITERATURE (^ Great Works of American Literature) |
| ENGL 4490 | GREAT WORKS OF BRITISH LITERATURE (^)                                    |

### Select one: 3 hours

|           |  |
|-----------|--|
| ENGL 2310 | INTRODUCTION TO BRITISH LITERATURE I (** ^)  |
| ENGL 2320 | INTRODUCTION TO BRITISH LITERATURE II (** ^) |

### Select one: 3 hours

|           |   |
|-----------|---|
| ENGL 2410 | CRITICAL APPROACHES TO LITERATURE (^)       |
| ENGL 2420 | CRITICAL APPROACHES TO LANGUAGE STUDIES (^) |

### Select one: 3 hours

|           |                               |
|-----------|-------------------------------|
| ENGL 2450 | AMERICAN LITERATURE I (** ^)  |
| ENGL 2460 | AMERICAN LITERATURE II (** ^) |

### Select one: 3 hours

|           |                                   |
|-----------|-----------------------------------|
| ENGL 4750 | COMPOSITION THEORY & PEDAGOGY (^) |
| ENGL 4730 | CONTEMPORARY RHETORIC (^)         |

### Social Science - 24 Hours

|              |   |
|--------------|---|
| HIST 1000    | WORLD HISTORY TO 1500 (**)                        |
| HIST 1110    | AMERICAN HISTORY TO 1865 (**)                     |
| HIST 1120    | AMERICAN HISTORY SINCE 1865 (**)                  |
| PSCI 1100    | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| ECON 2200    | PRINCIPLES OF ECONOMICS (MICRO) (** ^)            |
| or ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)                   |
| ECON 2400    | PRINCIPLES OF ECONOMICS FOR EDUCATORS (^)         |
| GEOG 1000    | WORLD REGIONAL GEOGRAPHY (**)                     |
| GEOG 1020    | INTRODUCTION TO HUMAN GEOGRAPHY (**)              |

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Secondary Education, Bachelor Science in Education - Middle Level Math and Social Science Endorsement Four Year Plan

### Freshman

| Fall  |   | Credits |
|---|---|---------|
| ENGL 1150   | ENGLISH COMPOSITION I                                   | 3       |
| GEOG 1000   | WORLD REGIONAL GEOGRAPHY                                | 3       |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING | 3       |
| or MATH 1130  | or QUANTITATIVE LITERACY                                |         |
| HIST 1000   | WORLD HISTORY TO 1500                                   | 3       |
| Natural Physical Science with Lab   |   | 4       |
| Attend Welcome Week events; other campus events   |   |         |
| Advising appointment for spring: Sept. - Oct.   |   |         |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |   |         |

### Credits

16

### Spring

|              |  |   |
|--------------|--|---|
| ENGL 1160    | COLLEGE RESEARCH AND INFORMATION LITERACY    | 3 |
| CMST 1110    | PUBLIC SPEAKING FUNDS                        | 3 |
| or CMST 2120 | or ARGUMENTATION AND DEBATE                  |   |
| HIST 1110    | AMERICAN HISTORY TO 1865                     | 3 |
| PSCI 1100    | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT | 3 |
| MATH 1320    | COLLEGE ALGEBRA                              | 3 |

MUST establish 2.0+ NU GPA in order to enroll in TED 2100 and TED 2200 for fall semester

Advising appointment for fall: February - March

Apply to Educator Preparation Program June 1 deadline

Join a student organization

**Credits 15**

### Summer

|           |                             |   |
|-----------|-----------------------------|---|
| HIST 1120 | AMERICAN HISTORY SINCE 1865 | 3 |
| Arts      |                             | 3 |

**Credits 6**

### Sophomore

#### Fall

|                           |   |   |
|---------------------------|---|---|
| MATH 1330                 | TRIGONOMETRY  | 3 |
| TED 2100                  | EDUCATIONAL FOUNDATIONS   | 3 |
| ECON 2200<br>or ECON 2220 | PRINCIPLES OF ECONOMICS (MICRO)<br>or PRINCIPLES OF ECONOMICS (MACRO) | 3 |
| GEOG 1020                 | INTRODUCTION TO HUMAN GEOGRAPHY                                       | 3 |
| Data Literacy             |   | 3 |

Advising appointment for spring: Sept. - Oct.

Identify professional organization to get involved with. Begin resume development.

**Credits 15**

#### Spring

|                         |  |   |
|-------------------------|--|---|
| MATH 1950               | CALCULUS I   | 5 |
| TED 2200<br>or TED 2060 | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3 |
| ECON 2400               | PRINCIPLES OF ECONOMICS FOR EDUCATORS  | 3 |
| TED 4660                | YOUNG ADULT LITERATURE   | 3 |

Advising appointment for fall: February - March

MUST by August 1st have 2.75 minimum NU GPA to progress in Educator Preparation Program.

**Credits 14**

### Junior

#### Fall

|           |   |   |
|-----------|---|---|
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE                         | 3 |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING                                 | 6 |
| MTCH 2020 | NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION | 3 |
| TED 4120  | READING & WRITING IN ELEMENTARY CONTENT AREAS                   | 3 |

Advising appointment for spring: Sept. - Oct.

**Credits 15**

#### Spring

|                                 |   |   |
|---------------------------------|---|---|
| TED 3550                        | SECONDARY CLASSROOM MANAGEMENT          | 3 |
| TED 3690                        | LITERACY AND LEARNING                   | 3 |
| SPED 3800                       | DIFFERENTIATION AND INCLUSIVE PRACTICES | 3 |
| MATH 3850                       | HISTORY OF MATHEMATICS                  | 3 |
| Math Choose One - see worksheet |   | 3 |

Advising appointment for fall: February - March

**Credits 15**

### Senior

#### Fall

|           |  |   |
|-----------|--|---|
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (MATH)           | 3 |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (SOCIAL SCIENCE) | 3 |
| STAT 3000 | STATISTICAL METHODS I                                | 3 |
| TED 4370  | TEACHING AT THE MIDDLE LEVEL                         | 3 |

Take Praxis II-Middle Level Mathematics #5164, Middle Level Social Sciences #5089

Advising appointment for spring: Sept. - Oct.

Apply for clinical practice at beginning of fall term.

**Credits 12**

#### Spring

|          |  |    |
|----------|--|----|
| TED 4600 | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12 |
|----------|--|----|

Apply for graduation

**Credits 12**

**Total Credits 120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

## Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA



## Secondary Education, Bachelor Science in Education - Middle Level Science and Social Science Endorsement Four Year Plan

### Freshman

| Fall  |  | Credits   |
|---|--|-----------|
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3         |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| MATH 1200   | QUANTITATIVE LITERACY                                | 3         |
| PSCI 1100   | INTRODUCTION TO AMERICAN<br>NATIONAL GOVERNMENT      | 3         |
| HIST 1000   | WORLD HISTORY TO 1500                                | 3         |
| Attend Welcome Week events; other campus events   |  |           |
| Advising appointment for spring: Sept. - Oct.   |  |           |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |  |           |
| <b>Credits</b>  |  | <b>15</b> |

### Spring

|  |  |           |
|--|--|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND<br>INFORMATION LITERACY | 3         |
| BIOL 1330  | ENVIRONMENTAL BIOLOGY                        | 3         |
| PSCI 3040  | GOVERNMENT AND POLITICS OF<br>NEBRASKA       | 3         |
| HIST 1110  | AMERICAN HISTORY TO 1865                     | 3         |
| Social Science   |  | 3         |
| MUST establish 2.5+ NU GPA in order to enroll in TED 2100 and TED 2200 for fall semester |  |           |
| Advising appointment for fall: February - March  |  |           |
| Join a student organization  |  |           |
| Make a plan to take the Praxis Core  |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Sophomore

| Fall   |   | Credits   |
|--|---|-----------|
| TED 2100   | EDUCATIONAL FOUNDATIONS   | 3         |
| TED 2200   | HUMAN RELATIONS FOR BIAS-FREE<br>CLASSROOMS   | 3         |
| CHEM 1140<br>& CHEM 1144   | FUNDAMENTALS OF COLLEGE<br>CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE<br>CHEMISTRY LABORATORY | 5         |
| GEOG 1000  | WORLD REGIONAL GEOGRAPHY  | 3         |
| Humanities (not HIST)  |   | 3         |
| Advising appointment for spring: Sept. - Oct.                                      |   |           |
| Identify professional organization to get involved with. Begin resume development. |   |           |
| Apply to EPP program by Oct. 1 deadline  |   |           |
| <b>Credits</b>   |   | <b>17</b> |

### Spring

|   |  |   |
|---|--|---|
| TED 2380  | DEVELOPMENT AND LEARNING IN<br>ADOLESCENCE | 3 |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING            | 6 |
| ECON 2400                                       | PRINCIPLES OF ECONOMICS FOR<br>EDUCATORS   | 3 |
| BIOL 1330                                       | ENVIRONMENTAL BIOLOGY                      | 3 |
| Advising appointment for fall: February - March |  |   |

MUST pass PRAXIS Core by May 30th and have 2.75 minimum NU GPA to progress in Educator Preparation Program.

**Credits** **15**

### Junior

| Fall  |  | Credits |
|---|--|---------|
| TED 4370                                      | TEACHING AT THE MIDDLE LEVEL   | 3       |
| GEOL 1170                                     | INTRODUCTION TO PHYSICAL GEOLOGY                                       | 4       |
| PHYS 1030<br>& PHYS 1034                      | PHYSICS OF EVERYDAY LIFE<br>and PHYSICS OF EVERYDAY LIFE<br>LABORATORY | 4       |
| PHYS 1350<br>& PHYS 1354                      | PRINCIPLES OF ASTRONOMY<br>and INTRODUCTORY ASTRONOMY LAB              | 4       |
| Advising appointment for spring: Sept. - Oct. |  |         |

**Credits** **15**

### Spring

|   |  |   |
|---|--|---|
| TED 4120  | READING & WRITING IN ELEMENTARY<br>CONTENT AREAS | 3 |
| TED 3550  | SECONDARY CLASSROOM<br>MANAGEMENT                | 3 |
| TED 3690  | LITERACY AND LEARNING                            | 3 |
| GEOL 1180                                       | INTRODUCTION TO HISTORICAL<br>GEOLOGY            | 4 |
| Advising appointment for fall: February - March |  |   |

**Credits** **13**

### Senior

| Fall  |   | Credits |
|---|---|---------|
| TED 4000  | SPECIAL METHODS IN THE CONTENT<br>AREA (SCIENCE)        | 3       |
| TED 4000  | SPECIAL METHODS IN THE CONTENT<br>AREA (SOCIAL SCIENCE) | 3       |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE<br>PRACTICES              | 3       |
| GEOG 1020   | INTRODUCTION TO HUMAN<br>GEOGRAPHY                      | 3       |
| HIST 1120   | AMERICAN HISTORY SINCE 1865                             | 3       |
| Social Science  |   | 3       |
| Take Praxis II-Middle Level Science #5435, Middle Level Social Sciences #5089 |   |         |
| Advising appointment for spring: Sept. - Oct.                                 |   |         |
| Apply for clinical practice at beginning of fall term.                        |   |         |

**Credits** **18**

### Spring

|                      |   |    |
|----------------------|---|----|
| TED 4600             | CLINICAL PRACTICE AND SEMINAR:<br>ELEMENTARY OR SECONDARY LEVEL | 12 |
| Apply for graduation |   |    |

**Credits** **12**

**Total Credits** **120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

## Additional Information About this Plan:

### University Degree Requirements:

The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time

(four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

#### Placement Exams:

For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Biology (7-12) Endorsement Secondary Education, Bachelor Science in Education - Biology (7-12) Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |

### Individual and Social Responsibility **6**

Cultural Knowledge - 3 hrs

Civic Knowledge and Engagement - 3 hrs

### MAJOR REQUIREMENTS - 85-86 Hours Required

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### All of the following: **39**

|             |  |
|-------------|--|
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 2380    | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 3550    | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690    | LITERACY AND LEARNING (^)  |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600    | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |

### Biology Endorsement required courses - **46-47**

|              |   |
|--------------|---|
| BIOL 1450    | BIOLOGY I (** ^)                                    |
| BIOL 1750    | BIOLOGY II (^)                                      |
| BIOL 2140    | GENETICS (^)  |
| BIOL 2740    | HUMAN ANATOMY AND PHYSIOLOGY I (^)                  |
| BIOL 3020    | MOLECULAR BIOLOGY OF THE CELL (^)                   |
| or BIOL 3340 | ECOLOGY   |
| BIOL 3830    | BIOLOGY OF PATHOGENIC MICROORGANISMS (^)            |
| BIOL 4230    | EVOLUTION (^)                                       |
| GEOL 1170    | INTRODUCTION TO PHYSICAL GEOLOGY (**)               |
| CHEM 1140    | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)            |
| CHEM 1144    | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) |
| CHEM 2210    | FUNDAMENTALS OF ORGANIC CHEMISTRY (^)               |
| CHEM 2214    | FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)    |
| PHYS 1050    | INTRODUCTION TO PHYSICS (** ^)                      |
| PHYS 1054    | INTRODUCTION TO PHYSICS LABORATORY (** ^)           |

### ELECTIVES

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Biology (7-12) Endorsement Four Year Plan

### Freshman

| Fall  |                              | Credits   |
|---|------------------------------|-----------|
| ENGL 1150   | ENGLISH COMPOSITION I        | 3         |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT | 4         |
| BIOL 1450   | BIOLOGY I                    | 5         |
| Social Science  |                              | 3         |
| Attend Welcome Week events; other campus events   |                              |           |
| Advising appointment for spring: Sept. - Oct.   |                              |           |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |                              |           |
| <b>Credits</b>  |                              | <b>15</b> |

### Spring

|   |  |           |
|---|--|-----------|
| ENGL 1160                                       | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3         |
| CMST 1110<br>or CMST 2120                       | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| BIOL 1750                                       | BIOLOGY II   | 5         |
| Cultural Knowledge                              |  | 3         |
| Advising appointment for fall: February - March |  |           |
| Join a student organization                     |  |           |
| <b>Credits</b>                                  |  | <b>14</b> |

### Sophomore

| Fall   |  | Credits   |
|--|--|-----------|
| TED 2100   | EDUCATIONAL FOUNDATIONS                      | 3         |
| CHEM 1140  | FUNDAMENTALS OF COLLEGE CHEMISTRY            | 4         |
| CHEM 1144  | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY | 1         |
| Arts   |  | 3         |
| Data Literacy  |  | 3         |
| Advising appointment for spring: Sept. - Oct.                                      |  |           |
| Identify professional organization to get involved with. Begin resume development. |  |           |
| <b>Credits</b>   |  | <b>14</b> |

| Spring   |  | Credits   |
|--|--|-----------|
| TED 2200<br>or TED 2060  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3         |
| BIOL 2140  | GENETICS   | 4         |
| CHEM 2210  | FUNDAMENTALS OF ORGANIC CHEMISTRY  | 4         |
| CHEM 2214  | FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY   | 1         |
| Civic Knowledge and Engagement                                   |  | 3         |
| Advising appointment for fall: February - March                  |  |           |
| Apply to Educator Preparation Program March 1 or June 1 deadline |  |           |
| <b>Credits</b>   |  | <b>15</b> |

### Summer

|                |                                |          |
|----------------|--------------------------------|----------|
| BIOL 2740      | HUMAN ANATOMY AND PHYSIOLOGY I | 4        |
| Humanities     |                                | 3        |
| <b>Credits</b> |                                | <b>7</b> |

### Junior

| Fall   |   | Credits   |
|--|---|-----------|
| TED 2380   | DEVELOPMENT AND LEARNING IN ADOLESCENCE     | 3         |
| TED 2400   | PLANNING FOR EFFECTIVE TEACHING             | 6         |
| BIOL 4230  | EVOLUTION                                   | 3         |
| BIOL 3020<br>or BIOL 3340  | MOLECULAR BIOLOGY OF THE CELL<br>or ECOLOGY | 3         |
| Advising appointment for spring: Sept. - Oct.                              |   |           |
| MUST have 2.75 minimum NU GPA to progress in Educator Preparation Program. |   |           |
| <b>Credits</b>   |   | <b>15</b> |

### Spring

|   |                                      |           |
|---|--------------------------------------|-----------|
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT       | 3         |
| TED 3690  | LITERACY AND LEARNING                | 3         |
| BIOL 3830                                       | BIOLOGY OF PATHOGENIC MICROORGANISMS | 3         |
| PHYS 1050                                       | INTRODUCTION TO PHYSICS              | 4         |
| PHYS 1054                                       | INTRODUCTION TO PHYSICS LABORATORY   | 1         |
| Advising appointment for fall: February - March |                                      |           |
| <b>Credits</b>                                  |                                      | <b>14</b> |

### Senior

| Fall   |   | Credits   |
|--|---|-----------|
| TED 4000   | SPECIAL METHODS IN THE CONTENT AREA     | 3         |
| GEOL 1170  | INTRODUCTION TO PHYSICAL GEOLOGY        | 4         |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES | 3         |
| Elective   |   | 4         |
| Take Praxis II- Biology: Content Knowledge #5236       |   |           |
| Advising appointment for spring: Sept. - Oct.          |   |           |
| Apply for clinical practice at beginning of fall term. |   |           |
| <b>Credits</b>   |   | <b>14</b> |

### Spring

|                      |  |            |
|----------------------|--|------------|
| Clinical Practice    |  | 12         |
| Apply for graduation |  |            |
| <b>Credits</b>       |  | <b>12</b>  |
| <b>Total Credits</b> |  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate

degree), you need to take 30 hours each year. Information based on the 2025-2026 catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Business, Marketing, Information Technology (BMIT) (6-12) Endorsement Secondary Education, Bachelor Science in Education - Business, Marketing, Information Technology (BMIT) (6-12) Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

|   |  |           |
|---|--|-----------|
| <b>Breadth of Knowledge</b>                               |  | <b>13</b> |
| Social Science - 3 hrs                                    |  |           |
| Humanities - 3 hrs  |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs. |  |           |
| Arts - 3 hrs  |  |           |
| <b>Individual and Social Responsibility</b>               |  | <b>6</b>  |
| Cultural Knowledge - 3 hrs                                |  |           |
| Civic Knowledge and Engagement - 3 hrs                    |  |           |
| <b>MAJOR REQUIREMENTS - 90 Hours Required</b>             |  |           |
| **Course will satisfy UNO's General Education requirement |  |           |
| ^Course requires pre-requisite(s)                         |  |           |
| <b>All of the following:</b>                              |  | <b>42</b> |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                                      |           |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |           |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |           |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                              |           |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                               |           |
| TED 3690  | LITERACY AND LEARNING (^)  |           |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |           |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^ Business)                 |           |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^ Information Tech)         |           |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |           |
| <b>BMIT Endorsement required courses:</b>                 |  | <b>39</b> |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                                   |           |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                                  |           |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                           |           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                           |           |
| MGMT 1500   | INTRODUCTION TO BUSINESS (**)                                    |           |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                            |           |
| MKT 3200  | BUSINESS COMMUNICATIONS ( ^)                                     |           |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                      |           |
| TED 4850  | COORDINATION TECHNIQUES IN WORK-BASED LEARNING                   |           |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES (** ^)                               |           |
| CIST 1300   | INTRODUCTION TO WEB DEVELOPMENT (^)                              |           |
| CIST 2100   | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (** ^)                |           |
| ISQA 3310   | MANAGING THE DATABASE ENVIRONMENT (^)                            |           |
| <b>Choose three courses</b>                               |  | <b>9</b>  |
| ENTR 3710   | ENTREPRENEURIAL FOUNDATIONS (^)                                  |           |
| MGMT 4030   | HUMAN RESOURCE MANAGEMENT (^)                                    |           |
| SCMT 3410   | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (^)                      |           |

|           |  |
|-----------|--|
| MGMT 4040 | MANAGING BEHAVIOR IN ORGANIZATIONS (^) |
| MKT 3100  | PROFESSIONAL SELLING (^)               |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Business, Marketing, Information Technology (BMIT) (6-12) Endorsement Four Year Plan

**Freshman**

| Fall  |                              | Credits   |
|---|------------------------------|-----------|
| ENGL 1150   | ENGLISH COMPOSITION I        | 3         |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT | 4         |
| MGMT 1500   | INTRODUCTION TO BUSINESS     | 3         |
| Humanities  |                              | 3         |
| Attend Welcome Week events; other campus events   |                              |           |
| Advising appointment for spring: Sept. - Oct.   |                              |           |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |                              |           |
| <b>Credits</b>  |                              | <b>13</b> |

**Spring**

|   |  |           |
|---|--|-----------|
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY  | 3         |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE   | 3         |
| TED 2200<br>or TED 2060   | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY                           | 3         |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO)  | 3         |
| MATH 1370<br>or MATH 1930   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS<br>or CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES | 3         |
| MUST establish 2.0+ NU GPA in order to enroll in TED 2100 for fall semester |  |           |
| Advising appointment for fall: February - March                             |  |           |
| Join a student organization   |  |           |
| <b>Credits</b>  |  | <b>15</b> |

**Sophomore**

| Fall      |                                 |   |
|-----------|---------------------------------|---|
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) | 3 |

|  |                            |   |
|--|----------------------------|---|
| TED 2100   | EDUCATIONAL FOUNDATIONS    | 3 |
| ACCT 2010  | PRINCIPLES OF ACCOUNTING I | 3 |
| MKT 3200   | BUSINESS COMMUNICATIONS    | 3 |
| Civic Knowledge and Engagemnet   |                            | 3 |
| Advising appointment for spring: Sept. - Oct.                                      |                            |   |
| Identify professional organization to get involved with. Begin resume development. |                            |   |

**Credits 15**

**Spring**

|   |                                   |   |
|---|-----------------------------------|---|
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II       | 3 |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS | 3 |
| MKT 3310  | PRINCIPLES OF MARKETING           | 3 |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES       | 3 |
| Cultural Knowledge  |                                   | 3 |
| Apply to Educator Preparation Program March 1 or June 1 deadline. |                                   |   |
| Advising appointment for fall: February - March                   |                                   |   |

**Credits 15**

**Summer**

|           |                                 |   |
|-----------|---------------------------------|---|
| Arts      |                                 | 3 |
| CIST 1300 | INTRODUCTION TO WEB DEVELOPMENT | 3 |

**Credits 6**

**Junior****Fall**

|           |  |   |
|-----------|--|---|
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE    | 3 |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING            | 6 |
| CIST 2100 | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY | 3 |

|          |  |   |
|----------|--|---|
| Elective |  | 2 |
|----------|--|---|

|   |  |  |
|---|--|--|
| Advising appointment for spring: Sept. - Oct.   |  |  |
| MUST have 2.75 minimum NU GPA to progress in Educator Preparation Program by January 10th |  |  |

**Credits 14**

**Spring**

|           |   |   |
|-----------|---|---|
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT                                    | 3 |
| TED 3690  | LITERACY AND LEARNING   | 3 |
| SPED 3800 | DIFFERENTIATION AND INCLUSIVE PRACTICES                           | 3 |
| ISQA 3310 | MANAGING THE DATABASE ENVIRONMENT                                 | 3 |
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (Can also choose from other options ) | 3 |

|   |  |  |
|---|--|--|
| Advising appointment for fall: February - March                   |  |  |
| Class times and pre requisites will vary by the student's choice. |  |  |

**Credits 15**

**Senior****Fall**

|           |  |   |
|-----------|--|---|
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (BUSINESS)               | 3 |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (INFORMATION TECHNOLOGY) | 3 |
| TED 4850  | COORDINATION TECHNIQUES IN WORK-BASED LEARNING               | 3 |
| MGMT 4030 | HUMAN RESOURCE MANAGEMENT (Can choose from other options)    | 3 |

|   |   |            |
|---|---|------------|
| SCMT 3410   | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (Can choose from other options) | 3          |
| *Elective - May need elective depending on which math course and natural science taken. Please discuss this with your academic advisor. This can be taken any semester, including summers, BEFORE Clinical Practice |   |            |
| Take Praxis II- Business Education: Content Knowledge #5101   |   |            |
| Advising appointment for spring: Sept. - Oct.   |   |            |
| Apply for clinical practice at beginning of fall term.  |   |            |
| <b>Credits</b>  |   | <b>15</b>  |
| <b>Spring</b>   |   |            |
| Clinical Practice   |   | 12         |
| Apply for graduation  |   |            |
| <b>Credits</b>  |   | <b>12</b>  |
| <b>Total Credits</b>  |   | <b>120</b> |

<sup>1</sup> Selection Area: Chose three of the five options (9 credit hours)  
ENTR 3710, MGMT 4030, SCMT 3410, MGMT 4040, or MKT 3100

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.  
This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on the 2025-2026 University of Nebraska undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** Cumulative 2.5 GPA for Educator Preparation Program initial acceptance, cumulative 2.75 GPA for formal admission and graduation.

#Professional education course: a grade of C or higher is required to pass the class.

**Graduation Requirements:** Students must have a cumulative GPA of at least 2.75, no grade lower than "C" in required courses, and no incomplete in required courses to be recommended for graduation.

## Chemistry (7-12) Endorsement

### Secondary Education, Bachelor Science in Education - Chemistry (7-12) Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 90 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>39</b> |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                             |           |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)         |           |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                 |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)             |           |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                     |           |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)             |           |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                      |           |



|   |  |
|---|--|
| TED 3690                                      | LITERACY AND LEARNING (^)  |
| TED 4000                                      | SPECIAL METHODS IN THE CONTENT AREA (^ Science)                  |
| TED 4600                                      | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |
| <b>Chemistry Endorsement required courses</b> |  |
| CHEM 1180                                     | GENERAL CHEMISTRY I (** ^)                                       |
| CHEM 1184                                     | GENERAL CHEMISTRY I LABORATORY (** ^)                            |
| CHEM 1190                                     | GENERAL CHEMISTRY II (^)   |
| CHEM 1194                                     | GENERAL CHEMISTRY II LABORATORY (^)                              |
| CHEM 2210                                     | FUNDAMENTALS OF ORGANIC CHEMISTRY (^)                            |
| CHEM 2214                                     | FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)                 |
| CHEM 2400                                     | QUANTITATIVE ANALYSIS (^)  |
| CHEM 2404                                     | QUANTITATIVE ANALYSIS LAB (^)                                    |
| CHEM 2500                                     | INTRODUCTION TO INORGANIC CHEMISTRY (^)                          |
| CHEM 3350                                     | PHYSICAL CHEMISTRY I (^)   |
| CHEM 3354                                     | PHYSICAL CHEMISTRY I LABORATORY (^)                              |
| BIOL 1450                                     | BIOLOGY I (** ^)   |
| GEOL 1170                                     | INTRODUCTION TO PHYSICAL GEOLOGY (**)                            |
| PHYS 2120                                     | GENERAL PHYSICS II-CALCULUS LEVEL (^)                            |
| PHYS 1164                                     | GENERAL PHYSICS LABORATORY II (^)                                |
| MATH 1950                                     | CALCULUS I (^)   |
| MATH 1960                                     | CALCULUS II (^)  |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

Secondary Education, Bachelor Science in Education - Chemistry (7-12) Endorsement Four Year Plan

**Freshman**

|                       |  |                |
|-----------------------|--|----------------|
| <b>Fall</b>           |  | <b>Credits</b> |
| ENGL 1150             | ENGLISH COMPOSITION I                                  | 3              |
| MATH 1950             | CALCULUS I   | 5              |
| CHEM 1180 & CHEM 1184 | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY | 4              |

\*Student must test into MATH 1950 Calculus I based off of ACT Math scores or Accuplacer exam, or bring transfer credit for MATH 1320 & 1330 or MATH 1340. These additional math courses may be required before MATH 1950 if the student does not test into it.

Attend Welcome Week events; other campus events  
Advising appointment for spring: Sept. - Oct.  
Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year

|   |  |           |
|---|--|-----------|
| <b>Credits</b>                                  |  | <b>12</b> |
| <b>Spring</b>                                   |  |           |
| ENGL 1160                                       | COLLEGE RESEARCH AND INFORMATION LITERACY                | 3         |
| CMST 1110 or CMST 2120                          | PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE        | 3         |
| MATH 1960                                       | CALCULUS II  | 4         |
| CHEM 1190 & CHEM 1194                           | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY | 4         |
| Advising appointment for fall: February - March |  |           |
| Join a student organization                     |  |           |

|                |                                    |           |
|----------------|------------------------------------|-----------|
| <b>Credits</b> |                                    | <b>14</b> |
| <b>Summer</b>  |                                    |           |
| PHYS 2110      | GENERAL PHYSICS I - CALCULUS LEVEL | 4         |
| Arts           |                                    | 3         |

|  |  |          |
|--|--|----------|
| <b>Credits</b>   |  | <b>7</b> |
| <b>Sophomore Fall</b>  |  |          |
| TED 2100   | EDUCATIONAL FOUNDATIONS  | 3        |
| CHEM 2210 & CHEM 2214  | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY | 5        |
| Humanities   |  | 3        |
| Social Science   |  | 3        |
| Advising appointment for spring: Sept. - Oct.                                      |  |          |
| Identify professional organization to get involved with. Begin resume development. |  |          |

|  |   |           |
|--|---|-----------|
| <b>Credits</b>   |   | <b>14</b> |
| <b>Spring</b>  |   |           |
| TED 2200 or TED 2060   | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3         |
| CHEM 2500  | INTRODUCTION TO INORGANIC CHEMISTRY   | 3         |
| CHEM 2400 & CHEM 2404  | QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB                                 | 4         |
| Elective   |   | 3         |
| Advising appointment for fall: February - March                  |   |           |
| Apply to Educator Preparation Program March 1 or June 1 deadline |   |           |

|                       |   |           |
|-----------------------|---|-----------|
| <b>Credits</b>        |   | <b>13</b> |
| <b>Summer</b>         |   |           |
| PHYS 2120 & PHYS 1164 | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II | 5         |
| <b>Credits</b>        |   | <b>5</b>  |

**Junior****Fall**

|          |   |   |
|----------|---|---|
| TED 2380 | DEVELOPMENT AND LEARNING IN ADOLESCENCE | 3 |
|----------|---|---|

|          |                                 |   |
|----------|---------------------------------|---|
| TED 2400 | PLANNING FOR EFFECTIVE TEACHING | 6 |
|----------|---------------------------------|---|

|           |                                  |   |
|-----------|----------------------------------|---|
| GEOL 1170 | INTRODUCTION TO PHYSICAL GEOLOGY | 4 |
|-----------|----------------------------------|---|

|          |  |   |
|----------|--|---|
| Elective |  | 3 |
|----------|--|---|

Advising appointment for spring: Sept. - Oct.

MUST January 10th have 2.75 minimum NU GPA to progress in Educator Preparation Program.

**Credits** **16**

**Spring**

|          |                                |   |
|----------|--------------------------------|---|
| TED 3550 | SECONDARY CLASSROOM MANAGEMENT | 3 |
|----------|--------------------------------|---|

|          |                       |   |
|----------|-----------------------|---|
| TED 3690 | LITERACY AND LEARNING | 3 |
|----------|-----------------------|---|

|           |   |   |
|-----------|---|---|
| SPED 3800 | DIFFERENTIATION AND INCLUSIVE PRACTICES | 3 |
|-----------|---|---|

|           |           |   |
|-----------|-----------|---|
| BIOL 1450 | BIOLOGY I | 5 |
|-----------|-----------|---|

Advising appointment for fall: February - March

**Credits** **14**

**Senior****Fall**

|          |                                     |   |
|----------|-------------------------------------|---|
| TED 4000 | SPECIAL METHODS IN THE CONTENT AREA | 3 |
|----------|-------------------------------------|---|

|                          |  |   |
|--------------------------|--|---|
| CHEM 3350<br>& CHEM 3354 | PHYSICAL CHEMISTRY I<br>and PHYSICAL CHEMISTRY I<br>LABORATORY | 4 |
|--------------------------|--|---|

|                                |  |   |
|--------------------------------|--|---|
| Civic Knowledge and Engagement |  | 3 |
|--------------------------------|--|---|

|               |  |   |
|---------------|--|---|
| Data Literacy |  | 3 |
|---------------|--|---|

Take Praxis II- Chemistry: Content Knowledge #5246

Advising appointment for spring: Sept. - Oct.

Apply for clinical practice at beginning of fall term.

**Credits** **13**

**Spring**

|          |  |    |
|----------|--|----|
| TED 4600 | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12 |
|----------|--|----|

Apply for graduation

**Credits** **12**

**Total Credits** **120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found

at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## English/Language Arts (7-12) Endorsement

### Secondary Education, Bachelor Science in Education - English/Language Arts (7-12) Endorsement Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

#### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

#### Fundamental Skills **15**

##### Writing – 6 hrs.

|           |                       |
|-----------|-----------------------|
| ENGL 1150 | ENGLISH COMPOSITION I |
|-----------|-----------------------|

|           |   |
|-----------|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |
|-----------|---|

##### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

##### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

##### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge **13**

Social Science - 3 hrs

Humanities - 3 hrs

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts - 3 hrs

#### Individual and Social Responsibility **6**

|   |  |
|---|--|
| Cultural Knowledge - 3 hrs                                |  |
| Civic Knowledge and Engagement - 3 hrs                    |  |
| <b>MAJOR REQUIREMENTS - 84 Hours Required</b>             |  |
| **Course will satisfy UNO's General Education requirement |  |
| ^Course requires pre-requisite(s)                         |  |
| <b>All of the following:</b>                              | <b>39</b>  |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690  | LITERACY AND LEARNING (^)  |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |
| <b>English Language Arts Endorsement required courses</b> | <b>30</b>  |
| ENGL 4860   | THE MODERN FAMILIAR ESSAY (^)                                    |
| JMC 2100  | MEDIA WRITING (^)  |
| JMC 2150  | NEWS WRITING AND REPORTING (^)                                   |
| CMST 2010   | INTERPERSONAL COMMUNICATION (**)                                 |
| CMST 2120   | ARGUMENTATION AND DEBATE (**)                                    |
| THEA 1010   | THEATRE APPRECIATION (** ^)                                      |
| THEA 1300   | ACTING I (**)  |
| TED 3750  | TEACHING GRAMMAR IN CONTEXT (^)                                  |
| TED 4610  | TEACHING OF WRITING THROUGHOUT THE CURRICULUM (^)                |
| TED 4660  | YOUNG ADULT LITERATURE   |
| ENGL 4750   | COMPOSITION THEORY & PEDAGOGY                                    |
| or ENGL 4730  | CONTEMPORARY RHETORIC  |
| <b>Select one</b>   | <b>3</b>   |
| ENGL 2310   | INTRODUCTION TO BRITISH LITERATURE I (** ^)                      |
| ENGL 2320   | INTRODUCTION TO BRITISH LITERATURE II (** ^)                     |
| ENGL 4340   | SHAKESPEARE (^)  |
| <b>Select one</b>   | <b>3</b>   |
| ENGL 2410   | CRITICAL APPROACHES TO LITERATURE (^)                            |
| ENGL 2420   | CRITICAL APPROACHES TO LANGUAGE STUDIES (^)                      |
| <b>Select one</b>   | <b>3</b>   |
| ENGL 2450   | AMERICAN LITERATURE I (** ^)                                     |
| ENGL 2460   | AMERICAN LITERATURE II (** ^)                                    |
| <b>Select one</b>   | <b>3</b>   |
| ENGL 4960   | TOPICS IN LANGUAGE AND LITERATURE (^)                            |
| ENGL 4490   | GREAT WORKS OF BRITISH LITERATURE (^)                            |
| <b>Select one ENGL from above or from below courses</b>   | <b>3</b>   |
| ENGL 4230   | LATINO LITERATURE (^)  |
| ENGL 4240   | TEACHING LATINO LITERATURE (** ^)                                |
| ENGL 4250   | WOMEN'S STUDIES IN LITERATURE (^)                                |

|           |                                       |
|-----------|---------------------------------------|
| ENGL 4260 | GLOBAL WOMEN WRITERS (^)              |
| ENGL 4960 | TOPICS IN LANGUAGE AND LITERATURE (^) |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - English/Language Arts (7-12) Endorsement Four Year Plan

**Freshman**

| <b>Fall</b>   |                             | <b>Credits</b> |
|---|-----------------------------|----------------|
| ENGL 1150   | ENGLISH COMPOSITION I       | 3              |
| CMST 2010   | INTERPERSONAL COMMUNICATION | 3              |
| Quantitative Literacy   |                             | 3              |
| Natural/Physical Science with lab   |                             | 4              |
| MUST establish 2.0+ NU GPA in order to enroll in TED 2200 for spring semester   |                             |                |
| Attend Welcome Week events; other campus events   |                             |                |
| Advising appointment for spring: Sept. - Oct.   |                             |                |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |                             |                |
| <b>Credits</b>  |                             | <b>13</b>      |

**Spring**

|   |   |           |
|---|---|-----------|
| ENGL 1160                                       | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| THEA 1010                                       | THEATRE APPRECIATION                      | 3         |
| CMST 2120                                       | ARGUMENTATION AND DEBATE                  | 3         |
| JMC 2100  | MEDIA WRITING                             | 3         |
| Civic Knowledge and Engagement                  |   | 3         |
| Advising appointment for fall: February - March |   |           |
| Join a student organization                     |   |           |
| <b>Credits</b>                                  |   | <b>15</b> |

**Sophomore****Fall**

|   |  |   |
|---|--|---|
| ENGL 2310<br>or ENGL 2320<br>or ENGL 4340 | INTRODUCTION TO BRITISH LITERATURE I<br>or INTRODUCTION TO BRITISH LITERATURE II<br>or SHAKESPEARE | 3 |
| ENGL 2450<br>or ENGL 2460                 | AMERICAN LITERATURE I<br>or AMERICAN LITERATURE II   | 3 |
| TED 2100                                  | EDUCATIONAL FOUNDATIONS  | 3 |
| THEA 1300                                 | ACTING I   | 3 |

|  |  |           |
|--|--|-----------|
| Data Literacy  |  | 3         |
| Advising appointment for spring: Sept. - Oct.  |  |           |
| Identify professional organization to get involved with. Begin resume development.         |  |           |
| Apply to Educator Preparation Program October 1 deadline                                   |  |           |
| <b>Credits</b>   |  | <b>15</b> |
| <b>Spring</b>  |  |           |
| TED 2200<br>or TED 2060  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3         |
| TED 4660   | YOUNG ADULT LITERATURE   | 3         |
| ENGL 2410<br>or ENGL 2420  | CRITICAL APPROACHES TO LITERATURE<br>or CRITICAL APPROACHES TO LANGUAGE STUDIES        | 3         |
| JMC 2150   | NEWS WRITING AND REPORTING   | 3         |
| Elective   |  | 3         |
| Advising appointment for fall: February - March  |  |           |
| <b>Credits</b>   |  | <b>15</b> |
| <b>Junior</b>  |  |           |
| <b>Fall</b>  |  |           |
| TED 2380   | DEVELOPMENT AND LEARNING IN ADOLESCENCE  | 3         |
| TED 2400   | PLANNING FOR EFFECTIVE TEACHING  | 6         |
| ENGL 4960<br>or ENGL 4490  | TOPICS IN LANGUAGE AND LITERATURE<br>or GREAT WORKS OF BRITISH LITERATURE              | 3         |
| Elective   |  | 1         |
| Advising appointment for spring: Sept. - Oct.  |  |           |
| MUST by January 10th have 2.75 minimum NU GPA to progress in Educator Preparation Program. |  |           |
| <b>Credits</b>   |  | <b>13</b> |
| <b>Spring</b>  |  |           |
| TED 3550   | SECONDARY CLASSROOM MANAGEMENT   | 3         |
| TED 3690   | LITERACY AND LEARNING  | 3         |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES  | 3         |
| TED 3750   | TEACHING GRAMMAR IN CONTEXT  | 3         |
| Elective   |  | 3         |
| Advising appointment for fall: February - March  |  |           |
| <b>Credits</b>   |  | <b>15</b> |
| <b>Summer</b>  |  |           |
| ENGL 4240  | TEACHING LATINO LITERATURE (Can choose other options)                                  | 3         |
| Elective   |  | 4         |
| <b>Credits</b>   |  | <b>7</b>  |
| <b>Senior</b>  |  |           |
| <b>Fall</b>  |  |           |
| TED 4000   | SPECIAL METHODS IN THE CONTENT AREA  | 3         |
| ENGL 4750<br>or ENGL 4730  | COMPOSITION THEORY & PEDAGOGY<br>or CONTEMPORARY RHETORIC                              | 3         |
| TED 4610   | TEACHING OF WRITING THROUGHOUT THE CURRICULUM  | 3         |
| ENGL 4860  | THE MODERN FAMILIAR ESSAY  | 3         |
| Elective   |  | 3         |
| Take Praxis II Content Exam- Language Arts # 5039  |  |           |
| Advising appointment for spring: Sept. - Oct.  |  |           |

|  |  |            |
|--|--|------------|
| Apply for clinical practice at beginning of fall term. |  |            |
| <b>Credits</b>   |  | <b>15</b>  |
| <b>Spring</b>  |  |            |
| TED 4600   | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12         |
| Apply for graduation                                   |  |            |
| <b>Credits</b>   |  | <b>12</b>  |
| <b>Total Credits</b>                                   |  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Secondary English (7-12) with ESL Supplemental Endorsement

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Secondary English (7-12) with ESL Supplemental Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 96 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                             |           |
| <b>All of the following:</b>  |   | <b>42</b> |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)         |           |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                 |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)             |           |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                     |           |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)             |           |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                      |           |

|  |   |
|--|---|
| TED 3690                                   | LITERACY AND LEARNING (^)   |
| TED 4000                                   | SPECIAL METHODS IN THE CONTENT AREA (^ Language Arts)                   |
| TED 4000                                   | SPECIAL METHODS IN THE CONTENT AREA (^ ESL)                             |
| TED 4600                                   | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)        |
| <b>English Endorsement - 39 Hours</b>      |   |
| <b>All of the following:</b>               |   |
| <b>15</b>                                  |   |
| ENGL 4750                                  | COMPOSITION THEORY & PEDAGOGY (^)                                       |
| or ENGL 4730                               | CONTEMPORARY RHETORIC   |
| ENGL 4860                                  | THE MODERN FAMILIAR ESSAY (^)   |
| TED 3750                                   | TEACHING GRAMMAR IN CONTEXT (^)   |
| TED 4610                                   | TEACHING OF WRITING THROUGHOUT THE CURRICULUM (^)                       |
| TED 4660                                   | YOUNG ADULT LITERATURE  |
| <b>Select one:</b>                         |   |
| <b>3</b>                                   |   |
| ENGL 2310                                  | INTRODUCTION TO BRITISH LITERATURE I (** ^)                             |
| ENGL 2320                                  | INTRODUCTION TO BRITISH LITERATURE II (** ^)                            |
| ENGL 4340                                  | SHAKESPEARE (^)   |
| <b>Select one:</b>                         |   |
| <b>3</b>                                   |   |
| ENGL 2410                                  | CRITICAL APPROACHES TO LITERATURE (^)                                   |
| ENGL 2420                                  | CRITICAL APPROACHES TO LANGUAGE STUDIES (^)                             |
| <b>Select one:</b>                         |   |
| <b>3</b>                                   |   |
| ENGL 2450                                  | AMERICAN LITERATURE I (** ^)  |
| ENGL 2460                                  | AMERICAN LITERATURE II (** ^)   |
| <b>Select one:</b>                         |   |
| <b>3</b>                                   |   |
| ENGL 4960                                  | TOPICS IN LANGUAGE AND LITERATURE (^Great Works of American Literature) |
| ENGL 4490                                  | GREAT WORKS OF BRITISH LITERATURE (^)                                   |
| <b>Select one:</b>                         |   |
| <b>3</b>                                   |   |
| ENGL 2250                                  | THE SHORT STORY (** ^)  |
| ENGL 2260                                  | BLACK SHORT STORY (** ^)  |
| ENGL 2280                                  | INTRODUCTION TO LANGUAGE (** ^)   |
| ENGL 2470                                  | SURVEY OF NATIVE AMERICAN LITERATURE (** ^)                             |
| ENGL 2490                                  | LATINO/A LITERATURE (** ^)  |
| ENGL 4250                                  | WOMEN'S STUDIES IN LITERATURE (^)                                       |
| <b>Select two, one must be 4000 level:</b> |   |
| <b>6</b>                                   |   |
| ENGL 3100                                  | NATIVE AMERICAN LITERATURE: MAJOR FIGURES (^)                           |
| ENGL 3400                                  | JUNIOR TOPICS IN BRITISH/IRISH/ANGLOPHONE LITERATURE (^)                |
| ENGL 4230                                  | LATINO LITERATURE (^)   |
| ENGL 4240                                  | TEACHING LATINO LITERATURE  |
| ENGL 4250                                  | WOMEN'S STUDIES IN LITERATURE (^)                                       |
| ENGL 4260                                  | GLOBAL WOMEN WRITERS (^)  |
| ENGL 4240                                  | TEACHING LATINO LITERATURE (** ^)                                       |
| ENGL 4260                                  | GLOBAL WOMEN WRITERS (^)  |
| ENGL 3150                                  | FORM AND STYLE IN CREATIVE NONFICTION (** ^)                            |
| ENGL 3280                                  | IRISH LITERATURE I (** ^)   |
| ENGL 3290                                  | IRISH LITERATURE II (** ^)  |

**ENGLISH ELECTIVE: Choose one from the selected above courses 3**

| <b>ESL endorsement 15</b> |  |
|---------------------------|--|
| TED 2050                  | INTRODUCTION TO TEACHING ENGLISH AS A SECOND LANGUAGE (^)      |
| TED 2060                  | EQUITY, LANGUAGE, AND CULTURAL LITERACY (^)                    |
| TED 3050                  | FOUNDATIONS OF TEACHING ENGLISH AS A SECOND LANGUAGE (ESL) (^) |
| LLS 1000                  | LATIN AMERICA: AN INTRODUCTION (**)                            |
| or LLS 1020               | INTRODUCTION TO CHICANO/LATINO STUDIES                         |
| TED 4000                  | SPECIAL METHODS IN THE CONTENT AREA (^ ESL)                    |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Secondary Education, Bachelor Science in Education - Secondary English (7-12) with ESL Supplemental Endorsement Four Year Plan

**Freshman**

| <b>Fall Credits</b>   |   |
|---|---|
| ENGL 1150   | ENGLISH COMPOSITION I 3                                 |
| Quantative Literacy   | 3   |
| Natural/Physical Science with lab   | 4   |
| TED 2050  | INTRODUCTION TO TEACHING ENGLISH AS A SECOND LANGUAGE 3 |
| Civic Knowledge and Engagement  | 3   |
| Attend Welcome Week events; other campus events   |   |
| Advising appointment for spring: Sept. - Oct.   |   |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |   |
| <b>Credits 16</b>   |   |

**Spring**

| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY 3 |
|--|---|
| CMST 1110  | PUBLIC SPEAKING FUNDS 3                     |
| or CMST 2120   | or ARGUMENTATION AND DEBATE                 |
| LLS 1000   | LATIN AMERICA: AN INTRODUCTION 3            |
| TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY 3   |
| TED 2100   | EDUCATIONAL FOUNDATIONS 3                   |
| Advising appointment for fall: February - March              |   |
| Join a student organization                                  |   |
| Must have 2.0 GPA to enroll in TED 2100 & TED 2200 for fall. |   |
| <b>Credits 15</b>  |   |

**Summer**

| Data Literacy    | 3 |
|------------------|---|
| Elective         | 3 |
| <b>Credits 6</b> |   |

**Sophomore****Fall**

|              |  |
|--------------|--|
| TED 2200     | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS 3 |
| or TED 2060  | or EQUITY, LANGUAGE, AND CULTURAL LITERACY |
| ENGL 2450    | AMERICAN LITERATURE I 3                    |
| or ENGL 2460 | or AMERICAN LITERATURE II                  |
| ENGL 2410    | CRITICAL APPROACHES TO LITERATURE 3        |
| or ENGL 2420 | or CRITICAL APPROACHES TO LANGUAGE STUDIES |
| ENGL 2310    | INTRODUCTION TO BRITISH LITERATURE 3       |
| or ENGL 2320 | I  |
| or ENGL 4340 | or INTRODUCTION TO BRITISH LITERATURE II   |
|              | or SHAKESPEARE                             |

Advising appointment for spring: Sept. - Oct.

Identify professional organization to get involved with. Begin resume development.

Apply to Educator Preparation Program October 1 deadline

**Credits 12****Spring**

|           |   |
|-----------|---|
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE 3         |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING 6                 |
| ENGL 2250 | THE SHORT STORY (Can choose from other options) 3 |
| Elective  | 2   |

Advising appointment for fall: February - March

MUST by August 1st have 2.75 minimum NU GPA to progress in Educator Preparation Program.

**Credits 14****Junior****Fall**

|              |   |
|--------------|---|
| ENGL 4860    | THE MODERN FAMILIAR ESSAY 3   |
| ENGL 4730    | CONTEMPORARY RHETORIC 3   |
| or ENGL 4750 | or COMPOSITION THEORY & PEDAGOGY  |
| ENGL 4960    | TOPICS IN LANGUAGE AND LITERATURE 3                                       |
| or ENGL 4490 | (Great Works of American Literature) or GREAT WORKS OF BRITISH LITERATURE |
| TED 4610     | TEACHING OF WRITING THROUGHOUT THE CURRICULUM 3                           |
| TED 3050     | FOUNDATIONS OF TEACHING ENGLISH AS A SECOND LANGUAGE (ESL) 3              |

Advising appointment for spring: Sept. - Oct.

**Credits 15****Spring**

|   |                                  |
|---|----------------------------------|
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT 3 |
| TED 3690  | LITERACY AND LEARNING 3          |
| TED 4660  | YOUNG ADULT LITERATURE 3         |
| TED 3750  | TEACHING GRAMMAR IN CONTEXT 3    |
| English Elective - see worksheet 3              |                                  |
| Advising appointment for fall: February - March |                                  |

**Credits 15**



**Senior  
Fall**

|  |   |           |
|--|---|-----------|
| TED 4000   | SPECIAL METHODS IN THE CONTENT AREA (English) | 3         |
| TED 4000   | SPECIAL METHODS IN THE CONTENT AREA (ESL)     | 3         |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES       | 3         |
| ENGL 3100  | NATIVE AMERICAN LITERATURE: MAJOR FIGURES     | 3         |
| ENGL 4240  | TEACHING LATINO LITERATURE                    | 3         |
| Take Praxis II Content Exam- English # 5039            |   |           |
| Advising appointment for spring: Sept. - Oct.          |   |           |
| Apply for clinical practice at beginning of fall term. |   |           |
| <b>Credits</b>   |   | <b>15</b> |

**Spring**

|                      |  |            |
|----------------------|--|------------|
| TED 4600             | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12         |
| Apply for graduation |  |            |
| <b>Credits</b>       |  | <b>12</b>  |
| <b>Total Credits</b> |  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Secondary English (7-12) with Additional Subject Endorsement

### Secondary Education, Bachelor Science in Education - Secondary English (7-12) with Additional Subject Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts- 3 hrs   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 81 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>42</b> |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)   |           |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)   |           |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY   |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)   |           |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)   |           |

|           |  |
|-----------|--|
| SPED 3800 | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690  | LITERACY AND LEARNING (^)  |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^Language Arts)             |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |

**English Endorsement required - 39 Hours**

Must pair with second endorsement

**All of the following: 15**

|                           |  |
|---------------------------|--|
| ENGL 4750<br>or ENGL 4730 | COMPOSITION THEORY & PEDAGOGY (^)<br>CONTEMPORARY RHETORIC |
| ENGL 4860                 | THE MODERN FAMILIAR ESSAY (^)                              |
| TED 3750                  | TEACHING GRAMMAR IN CONTEXT (^)                            |
| TED 4610                  | TEACHING OF WRITING THROUGHOUT THE CURRICULUM (^)          |
| TED 4660                  | YOUNG ADULT LITERATURE                                     |

**Select one: 3**

|           |  |
|-----------|--|
| ENGL 2310 | INTRODUCTION TO BRITISH LITERATURE I (** ^)  |
| ENGL 2320 | INTRODUCTION TO BRITISH LITERATURE II (** ^) |
| ENGL 4340 | SHAKESPEARE (^)                              |

**Select one: 3**

|           |   |
|-----------|---|
| ENGL 2410 | CRITICAL APPROACHES TO LITERATURE (^)       |
| ENGL 2420 | CRITICAL APPROACHES TO LANGUAGE STUDIES (^) |

**Select one: 3**

|           |                               |
|-----------|-------------------------------|
| ENGL 2450 | AMERICAN LITERATURE I (** ^)  |
| ENGL 2460 | AMERICAN LITERATURE II (** ^) |

**Select one: 3**

|           |  |
|-----------|--|
| ENGL 4960 | TOPICS IN LANGUAGE AND LITERATURE (^ Great Works of American Literature) |
| ENGL 4490 | GREAT WORKS OF BRITISH LITERATURE (^)                                    |

**Select one: 3**

|           |   |
|-----------|---|
| ENGL 2250 | THE SHORT STORY (** ^)                      |
| ENGL 2260 | BLACK SHORT STORY (** ^)                    |
| ENGL 2280 | INTRODUCTION TO LANGUAGE (** ^)             |
| ENGL 2470 | SURVEY OF NATIVE AMERICAN LITERATURE (** ^) |
| ENGL 2490 | LATINO/A LITERATURE (** ^)                  |
| ENGL 4240 | TEACHING LATINO LITERATURE                  |
| ENGL 4250 | WOMEN'S STUDIES IN LITERATURE (^)           |

**Select two, one must be 4000 level: 6**

|           |  |
|-----------|--|
| ENGL 3100 | NATIVE AMERICAN LITERATURE: MAJOR FIGURES (^)            |
| ENGL 3400 | JUNIOR TOPICS IN BRITISH/IRISH/ANGLOPHONE LITERATURE (^) |
| ENGL 4230 | LATINO LITERATURE (^)                                    |
| ENGL 4250 | WOMEN'S STUDIES IN LITERATURE (^)                        |
| ENGL 4260 | GLOBAL WOMEN WRITERS (^)                                 |
| ENGL 4240 | TEACHING LATINO LITERATURE (** ^)                        |

|           |  |
|-----------|--|
| ENGL 3150 | FORM AND STYLE IN CREATIVE NONFICTION (** ^) |
| ENGL 3280 | IRISH LITERATURE I (** ^)                    |
| ENGL 3290 | IRISH LITERATURE II (** ^)                   |

**ENGLISH ELECTIVE: Choose one from the selected above courses 3****ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary English (7-12) with Inclusive Practices

### Secondary Education Concentration in Inclusive Practices is optional that a student can add to a degree plan.

| Code                  | Title  | Credits   |
|-----------------------|--|-----------|
| <b>Hours Required</b> |  | <b>12</b> |
| SPED 4010             | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (^)       |           |
| SPED 4150             | READING AND WRITING INSTRUCTION FOR STUDENTS WITH DISABILITIES (^) |           |
| SPED 4710             | INTERACTIONS AND COLLABORATION (^)                                 |           |
| SPED 4810             | BEHAVIOR INTERVENTIONS AND SUPPORTS (^)                            |           |

## World Language - French (7-12) Endorsement

### Secondary Education, Bachelor Science in Education - World Language-French (7-12) Endorsement Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of "C-" required                                  |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |       |           |

|   |  |
|---|--|
| ENGL 1150   | ENGLISH COMPOSITION I  |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                        |
| <b>Oral Communication – 3 hrs.</b>  |  |
| CMST 1110   | PUBLIC SPEAKING FUNDS  |
| or CMST 2120  | ARGUMENTATION AND DEBATE   |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING          |
| or MATH 1130  | QUANTITATIVE LITERACY  |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                     |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                                  |
| STAT 1530   | ELEMENTARY STATISTICS  |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge</b>   | <b>13</b>  |
| Social Science - 3 hrs  |  |
| Humanities - 3 hrs  |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts - 3 hrs  |  |
| <b>Individual and Social Responsibility</b>   | <b>6</b>   |
| Cultural Knowledge - 3 hrs  |  |
| Civic Knowledge and Engagement - 3 hrs  |  |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following:</b>  | <b>39</b>  |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690  | LITERACY AND LEARNING (^)  |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |
| <b>French Endorsement required courses - 30 Hours</b>   |  |
| <b>All of the following:</b>  | <b>15</b>  |
| FREN 3030   | FRENCH CONVERSATION (^)  |
| FREN 3040   | FRENCH GRAMMAR AND COMPOSITION (^)                               |
| FREN 3060   | READINGS IN FRENCH (^)   |
| FREN 4040   | ADVANCED FRENCH COMPOSITION AND STYLISTICS (^)                   |
| FREN 4030   | ADVANCED FRENCH CONVERSATION (^)                                 |
| <b>Select one from Literature and Film</b>  | <b>3</b>   |
| FREN 3050   | INTRODUCTION TO TRANSLATION (^)                                  |

|  |   |
|--|---|
| FREN 3160  | INTRODUCTION TO FRENCH LITERATURE (^)                         |
| FREN 4150  | CONTEMPORARY FRENCH NOVEL (^)                                 |
| FREN 4170  | CONTEMPORARY FRENCH THEATER (^)                               |
| FREN 4860  | MODERN FRENCH WOMEN AUTHORS (^)                               |
| FREN 4950  | PRO-SEMINAR: LITERATURE AND/OR FILM (^)                       |
| <b>Select one from Linguistics and Lang. for Professions</b> |   |
| FREN 3020  | SPECIAL TOPICS IN FRENCH (^)                                  |
| FREN 4970  | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (^) |
| <b>Choose one from Culture and Society</b>                   |   |
| FREN 3370  | FRENCH CIVILIZATION (^)                                       |
| FREN 4960  | PRO-SEMINAR: CULTURE AND SOCIETY (^)                          |
| <b>Choose two FREN 3000/4000 level courses</b>               |   |
| FREN 3XXX/4XXX   |   |
| FREN 3XXX/4XXX   |   |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - World Language-French (7-12) Endorsement Four Year Plan

| <b>Freshman</b>   |   |                |
|---|---|----------------|
| <b>Fall</b>   |   | <b>Credits</b> |
| ENGL 1150   | ENGLISH COMPOSITION I                     | 3              |
| FREN 1110   | ELEMENTARY FRENCH I                       | 5              |
| Quantitative Literacy   |   | 3              |
| Social Science  |   | 3              |
| Attend Welcome Week events; other campus events   |   |                |
| Advising appointment for spring: Sept. - Oct.   |   |                |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |   |                |
|   |   | <b>Credits</b> |
| <b>Spring</b>   |   | <b>14</b>      |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY | 3              |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     | 3              |
| or CMST 2120  | or ARGUMENTATION AND DEBATE               |                |
| Natural/Physical Science with Lab   |   | 4              |
| FREN 1120   | ELEMENTARY FRENCH II                      | 5              |

|   |  |           |
|---|--|-----------|
| Advising appointment for fall: February - March   |  |           |
| Join a student organization   |  |           |
| Establish 2.0+ NU GPA to enroll in TED 2100 or TED 2200                                   |  |           |
|   | <b>Credits</b>   | <b>15</b> |
| <b>Summer</b>   |  |           |
| FREN 2110   | INTERMEDIATE FRENCH I  | 3         |
| Civic Knowledge and Engagement  |  | 3         |
|   | <b>Credits</b>   | <b>6</b>  |
| <b>Sophomore</b>  |  |           |
| <b>Fall</b>   |  |           |
| TED 2100  | EDUCATIONAL FOUNDATIONS  | 3         |
| TED 2200<br>or TED 2060   | HUMAN RELATIONS FOR BIAS-FREE<br>CLASSROOMS<br>or EQUITY, LANGUAGE, AND<br>CULTURAL LITERACY   | 3         |
| Arts  |  | 3         |
| FREN 2120   | INTERMEDIATE FRENCH II   | 3         |
| Advising appointment for spring: Sept. - Oct.   |  |           |
| Identify professional organization to get involved with. Begin<br>resume development.     |  |           |
|   | <b>Credits</b>   | <b>12</b> |
| <b>Spring</b>   |  |           |
| FREN 3050<br>or FREN 3160<br>or FREN 4150<br>or FREN 4170<br>or FREN 4860<br>or FREN 4950 | INTRODUCTION TO TRANSLATION<br>or INTRODUCTION TO FRENCH<br>LITERATURE<br>or CONTEMPORARY FRENCH NOVEL<br>or CONTEMPORARY FRENCH<br>THEATER<br>or MODERN FRENCH WOMEN<br>AUTHORS<br>or PRO-SEMINAR: LITERATURE AND/<br>OR FILM | 3         |
| Data Literacy   |  | 3         |
| Cultural Knowledge  |  | 3         |
| Elective for Degree   |  | 3         |
| Advising appointment for fall: February - March   |  |           |
| Apply to Educator Preparation Program by March 1 deadline                                 |  |           |
|   | <b>Credits</b>   | <b>12</b> |
| <b>Junior</b>   |  |           |
| <b>Fall</b>   |  |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN<br>ADOLESCENCE   | 3         |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING  | 6         |
| FREN 3030   | FRENCH CONVERSATION  | 3         |
| FREN 3000-4999  |  | 3         |
| Advising appointment for spring: Sept. - Oct.   |  |           |
| Must have 2.75 NU GPA to progress in Educator Preparation<br>Program                      |  |           |
|   | <b>Credits</b>   | <b>15</b> |
| <b>Spring</b>   |  |           |
| TED 3550  | SECONDARY CLASSROOM<br>MANAGEMENT  | 3         |
| TED 3690  | LITERACY AND LEARNING  | 3         |
| FREN 4030   | ADVANCED FRENCH CONVERSATION   | 3         |
| FREN 3040   | FRENCH GRAMMAR AND<br>COMPOSITION  | 3         |
| FREN 3060   | READINGS IN FRENCH   | 3         |
| Advising appointment for fall: February - March   |  |           |
|   | <b>Credits</b>   | <b>15</b> |

|  |   |            |
|--|---|------------|
| <b>Summer</b>  |   |            |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE<br>PRACTICES  | 3          |
| FREN 3020<br>or FREN 4970                              | SPECIAL TOPICS IN FRENCH<br>or PRO-SEMINAR: LINGUISTICS AND<br>LANGUAGE FOR THE PROFESSIONS | 3          |
|  | <b>Credits</b>  | <b>6</b>   |
| <b>Senior</b>  |   |            |
| <b>Fall</b>  |   |            |
| TED 4000   | SPECIAL METHODS IN THE CONTENT<br>AREA  | 3          |
| FREN 4040  | ADVANCED FRENCH COMPOSITION<br>AND STYLISTICS   | 3          |
| FREN 3370<br>or FREN 4960                              | FRENCH CIVILIZATION<br>or PRO-SEMINAR: CULTURE AND<br>SOCIETY                               | 3          |
| FREN Elective 3000/4000 level                          |   | 3          |
| Elective   |   | 1          |
| Take Praxis II- World Language- French # 5174          |   |            |
| Advising appointment for spring: Sept. - Oct.          |   |            |
| Apply for clinical practice at beginning of fall term. |   |            |
|  | <b>Credits</b>  | <b>13</b>  |
| <b>Spring</b>  |   |            |
| TED 4600   | CLINICAL PRACTICE AND SEMINAR:<br>ELEMENTARY OR SECONDARY LEVEL                             | 12         |
| Apply for graduation                                   |   |            |
|  | <b>Credits</b>  | <b>12</b>  |
|  | <b>Total Credits</b>  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

# World Language - German (7-12) Endorsement

## Secondary Education, Bachelor Science in Education - World Language-German (7-12) Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>39</b> |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                             |           |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)         |           |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                 |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)             |           |

|  |  |           |
|--|--|-----------|
| TED 2400   | PLANNING FOR EFFECTIVE TEACHING (^)                                  |           |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                          |           |
| TED 3550   | SECONDARY CLASSROOM MANAGEMENT (^)                                   |           |
| TED 3690   | LITERACY AND LEARNING (^)  |           |
| TED 4000   | SPECIAL METHODS IN THE CONTENT AREA (^)                              |           |
| TED 4600   | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)     |           |
| <b>German Endorsement required courses - 30 Hours</b>            |  |           |
| <b>All of the following:</b>                                     |  | <b>12</b> |
| GERM 3030  | GERMAN CONVERSATION (^)  |           |
| GERM 3040  | GERMAN GRAMMAR & COMPOSITION (^)                                     |           |
| GERM 3060  | READINGS IN GERMAN (^)   |           |
| GERM 4040  | ADVANCED COMPOSITION AND STYLISTICS (^)                              |           |
| <b>Select one from Literature and Film</b>                       |  | <b>3</b>  |
| GERM 3650  | INTRODUCTION TO GERMAN FILM (^)                                      |           |
| GERM 4150  | INTRODUCTION TO GERMAN LITERATURE (^)                                |           |
| GERM 4950  | PRO-SEMINAR: LITERATURE AND/OR FILM (^)                              |           |
| <b>Select two from Linguistics and Lang. for the Professions</b> |  | <b>6</b>  |
| GERM 3580  | GERMAN FOR PROFESSIONAL LIFE   |           |
| GERM 4970  | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (^)        |           |
| GERM 4210  | TRANSLATING GERMAN (^)   |           |
| <b>Select one from Culture and Society</b>                       |  | <b>3</b>  |
| GERM 3250  | CONTEMPORARY CULTURE IN GERMAN SPEAKING COUNTRIES (^)                |           |
| GERM 3370  | GERMAN HISTORY FROM THE BEGINNINGS UNTIL THE EARLY MODERN PERIOD (^) |           |
| GERM 3380  | GERMAN HISTORY FROM THE ENLIGHTENMENT TO THE PRESENT (^)             |           |
| GERM 4960  | PRO-SEMINAR: SOCIETY AND CULTURE (^)                                 |           |
| <b>Choose two: GERM 3000/4000 level courses</b>                  |  | <b>6</b>  |
| GERM 3XXX/4XXX   |  |           |
| GERM 3XXX/4XXX   |  |           |
| <b>ELECTIVES</b>   |  |           |
| Elective hours as required to reach a total of 120 hours         |  |           |

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - World Language-German (7-12) Endorsement Four Year Plan

### Freshman

| Fall  |                       | Credits   |
|---|-----------------------|-----------|
| ENGL 1150   | ENGLISH COMPOSITION I | 3         |
| Quantitative Literacy   |                       | 3         |
| GERM 1110   | ELEMENTARY GERMAN I   | 5         |
| Social Science  |                       | 3         |
| Attend Welcome Week events; other campus events   |                       |           |
| Advising appointment for spring: Sept. - Oct.   |                       |           |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |                       |           |
| <b>Credits</b>  |                       | <b>14</b> |

### Spring

|   |   |           |
|---|---|-----------|
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| GERM 1120   | ELEMENTARY GERMAN II                      | 5         |
| Natural/Physical Science with Lab                                     |   | 4         |
| Advising appointment for fall: February - March                       |   |           |
| Join a student organization   |   |           |
| MUST establish 2.0+ NU GPA in order to enroll in TED 2200 or TED 2100 |   |           |
| <b>Credits</b>  |   | <b>12</b> |

### Sophomore

| Fall   |                         | Credits   |
|--|-------------------------|-----------|
| CMST 1110  | PUBLIC SPEAKING FUNDS   | 3         |
| TED 2100   | EDUCATIONAL FOUNDATIONS | 3         |
| GERM 2110  | INTERMEDIATE GERMAN I   | 3         |
| Data Literacy  |                         | 3         |
| Advising appointment for spring: Sept. - Oct.                                      |                         |           |
| Identify professional organization to get involved with. Begin resume development. |                         |           |
| <b>Credits</b>   |                         | <b>12</b> |

### Spring

|   |  |           |
|---|--|-----------|
| GERM 2120   | INTERMEDIATE GERMAN II   | 3         |
| TED 2200<br>or TED 2060                                   | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3         |
| Cultural Knowledge  |  | 3         |
| Civic Knowledge and Engagement                            |  | 3         |
| Advising appointment for fall: February - March           |  |           |
| Apply to Educator Preparation Program by March 1 deadline |  |           |
| <b>Credits</b>  |  | <b>12</b> |

### Summer

|                |  |          |
|----------------|--|----------|
| Arts           |  | 3        |
| Elective       |  | 3        |
| <b>Credits</b> |  | <b>6</b> |

### Junior

| Fall     |   | Credits |
|----------|---|---------|
| TED 2380 | DEVELOPMENT AND LEARNING IN ADOLESCENCE | 3       |
| TED 2400 | PLANNING FOR EFFECTIVE TEACHING         | 6       |

|   |   |   |
|---|---|---|
| GERM 3040                                 | GERMAN GRAMMAR & COMPOSITION  | 3 |
| GERM 3650<br>or GERM 4150<br>or GERM 4950 | INTRODUCTION TO GERMAN FILM<br>or INTRODUCTION TO GERMAN LITERATURE<br>or PRO-SEMINAR: LITERATURE AND/OR FILM | 3 |

Must have 2.75 NU GPA to progress in Educator Preparation Program

Advising appointment for spring: Sept. - Oct.

**Credits 15**

### Spring

|   |   |   |
|---|---|---|
| TED 3550                                  | SECONDARY CLASSROOM MANAGEMENT  | 3 |
| TED 3690                                  | LITERACY AND LEARNING   | 3 |
| GERM 3030                                 | GERMAN CONVERSATION   | 3 |
| GERM 3060                                 | READINGS IN GERMAN  | 3 |
| GERM 4970<br>or GERM 3580<br>or GERM 4210 | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS<br>or GERMAN FOR PROFESSIONAL LIFE<br>or TRANSLATING GERMAN | 3 |

Advising appointment for fall: February - March

**Credits 15**

### Summer

|                |   |          |
|----------------|---|----------|
| Elective       |   | 1        |
| GERM 3000-4999 |   | 3        |
| SPED 3800      | DIFFERENTIATION AND INCLUSIVE PRACTICES | 3        |
| <b>Credits</b> |   | <b>7</b> |

### Senior

| Fall  |  | Credits |
|---|--|---------|
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA  | 3       |
| GERM 4040   | ADVANCED COMPOSITION AND STYLISTICS  | 3       |
| GERM 3250<br>or GERM 3370<br>or GERM 3380<br>or GERM 4960 | CONTEMPORARY CULTURE IN GERMAN SPEAKING COUNTRIES<br>or GERMAN HISTORY FROM THE BEGINNINGS UNTIL THE EARLY MODERN PERIOD<br>or GERMAN HISTORY FROM THE ENLIGHTENMENT TO THE PRESENT<br>or PRO-SEMINAR: SOCIETY AND CULTURE | 3       |

|   |   |   |
|---|---|---|
| GERM 4970<br>or GERM 3580<br>or GERM 4210 | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS<br>or GERMAN FOR PROFESSIONAL LIFE<br>or TRANSLATING GERMAN | 3 |
|---|---|---|

|                               |  |   |
|-------------------------------|--|---|
| GERM Elective 3000/4000 level |  | 3 |
|-------------------------------|--|---|

Take Praxis II- German #5183

Advising appointment for spring: Sept. - Oct.

Apply for clinical practice at beginning of fall term.

**Credits 15**

### Spring

|          |  |    |
|----------|--|----|
| TED 4600 | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12 |
|----------|--|----|

Apply for graduation

**Credits 12**

**Total Credits 120**



This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

**Additional Information About this Plan:**  
**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**  
 2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

Mathematics (6-12) Endorsement  
 Secondary Education, Bachelor Science in Education - Mathematics (6-12) Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| Quantitative Literacy – 3 hrs.                            |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |

|   |  |
|---|--|
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                     |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                                  |
| STAT 1530   | ELEMENTARY STATISTICS  |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge</b>   | <b>13</b>  |
| Social Science - 3 hrs  |  |
| Humanities - 3 hrs  |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts - 3 hrs  |  |
| <b>Individual and Social Responsibility</b>   | <b>6</b>   |
| Cultural Knowledge - 3 hrs  |  |
| Civic Knowledge and Engagement - 3 hrs  |  |
| <b>MAJOR REQUIREMENTS - 79 Hours Required</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following:</b>  | <b>39</b>  |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690  | LITERACY AND LEARNING (^)  |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |
| <b>Math Endorsement required courses - 40 Hours</b>   |  |
| <b>All of the following:</b>  | <b>37</b>  |
| MATH 1950   | CALCULUS I (^)   |
| MATH 1960   | CALCULUS II (^)  |
| MATH 1970   | CALCULUS III (^)   |
| MATH 2230   | INTRODUCTION TO ABSTRACT MATH (^)                                |
| MATH 3640   | MODERN GEOMETRY (^)  |
| MATH 3850   | HISTORY OF MATHEMATICS (^)                                       |
| MATH 4030   | MODERN ALGEBRA (^)   |
| MATH 2200   | MATHEMATICAL COMPUTING I (^)                                     |
| or MTCH 2020  | NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION  |
| MATH 4740   | INTRODUCTION TO PROBABILITY AND STATISTICS I (^)                 |
| MATH 2050   | APPLIED LINEAR ALGEBRA (^)                                       |
| <b>Select one of the courses below</b>  |  |
| MATH 3230   | INTRODUCTION TO ANALYSIS (^)                                     |
| MATH 2350   | DIFFERENTIAL EQUATIONS (^)                                       |
| MATH 3100   | APPLIED COMBINATORICS (^)  |
| MATH 3200   | MATHEMATICAL COMPUTING II  |

|           |                              |
|-----------|------------------------------|
| MATH 4050 | LINEAR ALGEBRA               |
| MATH 4560 | NUMBER THEORY & CRYPTOGRAPHY |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Mathematics (6-12) Endorsement Four Year Plan

**Freshman**

|   |                       | <b>Credits</b> |
|---|-----------------------|----------------|
| <b>Fall</b>   |                       |                |
| ENGL 1150   | ENGLISH COMPOSITION I | 3              |
| MATH 1950   | CALCULUS I            | 5              |
| Social Science  |                       | 3              |
| Humanities  |                       | 3              |
| Attend Welcome Week events; other campus events   |                       |                |
| Advising appointment for spring: Sept. - Oct.   |                       |                |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |                       |                |

|   |  | <b>Credits</b> |
|---|--|----------------|
| <b>Spring</b>   |  | <b>14</b>      |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3              |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3              |
| MATH 1960   | CALCULUS II  | 4              |
| Natural/Physical Science with Lab   |  | 4              |
| Advising appointment for fall: February - March                             |  |                |
| Join a student organization   |  |                |
| MUST establish 2.0+ NU GPA in order to enroll in TED 2100 for fall semester |  |                |

|                           |  | <b>Credits</b> |
|---------------------------|--|----------------|
| <b>Sophomore</b>          |  | <b>14</b>      |
| <b>Fall</b>               |  |                |
| TED 2100                  | EDUCATIONAL FOUNDATIONS  | 3              |
| MATH 1970                 | CALCULUS III   | 4              |
| MATH 2230                 | INTRODUCTION TO ABSTRACT MATH  | 3              |
| MATH 2200<br>or MTCH 2020 | MATHEMATICAL COMPUTING I<br>or NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION | 3              |

Advising appointment for spring: Sept. - Oct.

|   |  |           |
|---|--|-----------|
| Identify professional organization to get involved with. Begin resume development.                        |  |           |
|   | <b>Credits</b>   | <b>13</b> |
| <b>Spring</b>   |  |           |
| TED 2200<br>or TED 2060   | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3         |
| MATH 2050   | APPLIED LINEAR ALGEBRA   | 3         |
| Arts  |  | 3         |
| Elective  |  | 3         |
| Civic Knowledge and Engagement  |  | 3         |
| May be taken over the summer, amount of credits depends on previous courses- please talk to your advisor. |  |           |
| Advising appointment for fall: February - March   |  |           |
| Apply to Educator Preparation Program by March 1 or June 1 deadline.                                      |  |           |

|  |   | <b>Credits</b> |
|--|---|----------------|
| <b>Junior</b>  |   | <b>15</b>      |
| <b>Fall</b>  |   |                |
| TED 2380   | DEVELOPMENT AND LEARNING IN ADOLESCENCE | 3              |
| TED 2400   | PLANNING FOR EFFECTIVE TEACHING         | 6              |
| Data Literacy  |   | 3              |
| Choose one of the following courses:   |   | 3              |
| MATH 3230  | INTRODUCTION TO ANALYSIS                |                |
| MATH 2350  | DIFFERENTIAL EQUATIONS                  |                |
| MATH 3100  | APPLIED COMBINATORICS                   |                |
| MATH 3200  | MATHEMATICAL COMPUTING II               |                |
| MATH 4050  | LINEAR ALGEBRA                          |                |
| MATH 4560  | NUMBER THEORY & CRYPTOGRAPHY            |                |
| Advising appointment for spring: Sept. - Oct.  |   |                |
| MUST by January 10th have 2.75 minimum NU GPA to progress in Educator Preparation Program. |   |                |

|   |                                | <b>Credits</b> |
|---|--------------------------------|----------------|
| <b>Spring</b>                                   |                                | <b>15</b>      |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT | 3              |
| TED 3690  | LITERACY AND LEARNING          | 3              |
| MATH 3850                                       | HISTORY OF MATHEMATICS         | 3              |
| MATH 4030                                       | MODERN ALGEBRA                 | 3              |
| Cultural Knowledge                              |                                | 3              |
| Advising appointment for fall: February - March |                                |                |

|               |   | <b>Credits</b> |
|---------------|---|----------------|
| <b>Summer</b> |   | <b>15</b>      |
| SPED 3800     | DIFFERENTIATION AND INCLUSIVE PRACTICES | 3              |
| Elective      |   | 4              |

|                     |  | <b>Credits</b> |
|---------------------|--|----------------|
| <b>Senior</b>       |  | <b>7</b>       |
| <b>Fall</b>         |  |                |
| TED 4000            | SPECIAL METHODS IN THE CONTENT AREA          | 3              |
| MATH 3640           | MODERN GEOMETRY                              | 3              |
| MATH 4740           | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3              |
| Elective for Degree |  | 3              |
| Elective            |  | 3              |

|  |            |
|--|------------|
| Take Praxis II- Math Content Knowledge #5165           |            |
| Advising appointment for spring: Sept. - Oct.          |            |
| Apply for clinical practice at beginning of fall term. |            |
|  |            |
| <b>Credits</b>   | <b>15</b>  |
| <b>Spring</b>  |            |
| Clinical Practice                                      | 12         |
| Apply for graduation                                   |            |
| <b>Credits</b>   | <b>12</b>  |
| <b>Total Credits</b>                                   | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**  
**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information found in this document is based on the 2025-2026 catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**  
2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

# Middle Level (5-9) Endorsement

## Secondary Education, Bachelor Science in Education - Middle Level Endorsement (5-9) Requirements

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |
| Minimum of "C-"required                                   |       |         |

|   |  |              |
|---|--|--------------|
| <b>Fundamental Skills</b>   |  | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |  |              |
| ENGL 1150   | ENGLISH COMPOSITION I  |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                        |              |
| <b>Oral Communication – 3 hrs.</b>  |  |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS  |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE   |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING          |              |
| or MATH 1130  | QUANTITATIVE LITERACY  |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS              |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                     |              |
| <b>Data Literacy – 3 hrs.</b>   |  |              |
| Select one from the following:  |  |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                                  |              |
| STAT 1530   | ELEMENTARY STATISTICS  |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |              |
| <b>Breadth of Knowledge</b>   |  | <b>13</b>    |
| Social Science - 3 hrs  |  |              |
| Humanities - 3 hrs  |  |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |              |
| Arts - 3 hrs  |  |              |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>     |
| Cultural Knowledge - 3 hrs  |  |              |
| Civic Knowledge and Engagement - 3 hrs  |  |              |
| <b>MAJOR REQUIREMENTS - 100 Hours Required</b>  |  |              |
| **Course will satisfy UNO's General Education requirement   |  |              |
| ^Course requires pre-requisite(s)   |  |              |
| <b>All of the following:</b>  |  | <b>51</b>    |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                                      |              |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |              |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |              |
| TED 4120  | READING & WRITING IN ELEMENTARY CONTENT AREAS (^)                |              |
| TED 4370  | TEACHING AT THE MIDDLE LEVEL (^)                                 |              |
| TED 4660  | YOUNG ADULT LITERATURE   |              |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |              |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                              |              |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                               |              |
| TED 3690  | LITERACY AND LEARNING (^)  |              |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |              |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)                          |              |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)                          |              |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |              |
| <b>2 Endorsements required</b>  |  | <b>49-50</b> |
| One must be Mathematics or Science  |  |              |
| <b>Mathematics Endorsement - 26 Hours</b>   |  |              |

|   |   |
|---|---|
| MATH 1120                               | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (**)              |
| or MATH 1130                            | QUANTITATIVE LITERACY   |
| MATH 1320                               | COLLEGE ALGEBRA (^)   |
| MATH 1330                               | TRIGONOMETRY (^)  |
| MATH 1950                               | CALCULUS I (^)  |
| MTCH 2020                               | NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION           |
| MATH 3850                               | HISTORY OF MATHEMATICS (^)  |
| STAT 3000                               | STATISTICAL METHODS I (^)   |
| MATH 1120                               | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                   |
| or MATH 1130                            | QUANTITATIVE LITERACY   |
| or STAT 1100                            | DATA LITERACY AND VISUALIZATION   |
| or STAT 1530                            | ELEMENTARY STATISTICS   |
| <b>Science Endorsement - 25 Hours</b>   |   |
| BIOL 1020                               | PRINCIPLES OF BIOLOGY (** can sub BIOL 1450)                              |
| CHEM 1140                               | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)                                  |
| CHEM 1144                               | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)                       |
| GEOL 1170                               | INTRODUCTION TO PHYSICAL GEOLOGY (**)                                     |
| GEOL 1180                               | INTRODUCTION TO HISTORICAL GEOLOGY (^)                                    |
| PHYS 1030                               | PHYSICS OF EVERYDAY LIFE (** ^)   |
| PHYS 1034                               | PHYSICS OF EVERYDAY LIFE LABORATORY (** ^)                                |
| PHYS 1350                               | PRINCIPLES OF ASTRONOMY (** ^)  |
| PHYS 1354                               | INTRODUCTORY ASTRONOMY LAB (** ^)   |
| <b>English Language Arts - 24 Hours</b> |   |
| TED 3750                                | TEACHING GRAMMAR IN CONTEXT (^)   |
| TED 4610                                | TEACHING OF WRITING THROUGHOUT THE CURRICULUM                             |
| ENGL 4960                               | TOPICS IN LANGUAGE AND LITERATURE (^ Great Works of American Literature ) |
| ENGL 4490                               | GREAT WORKS OF BRITISH LITERATURE (^)                                     |
| <b>Select one: 3 hours</b>              |   |
| ENGL 2310                               | INTRODUCTION TO BRITISH LITERATURE I (** ^)                               |
| ENGL 2320                               | INTRODUCTION TO BRITISH LITERATURE II (** ^)                              |
| <b>Select one: 3 hours</b>              |   |
| ENGL 2410                               | CRITICAL APPROACHES TO LITERATURE (^)                                     |
| ENGL 2420                               | CRITICAL APPROACHES TO LANGUAGE STUDIES (^)                               |
| <b>Select one: 3 hours</b>              |   |
| ENGL 2450                               | AMERICAN LITERATURE I (** ^)  |
| ENGL 2460                               | AMERICAN LITERATURE II (** ^)   |
| <b>Select one: 3 hours</b>              |   |
| ENGL 4750                               | COMPOSITION THEORY & PEDAGOGY (^)   |
| ENGL 4730                               | CONTEMPORARY RHETORIC (^)   |
| <b>Social Science - 24 Hours</b>        |   |
| HIST 1000                               | WORLD HISTORY TO 1500 (**)  |
| HIST 1110                               | AMERICAN HISTORY TO 1865 (**)   |

|              |   |
|--------------|---|
| HIST 1120    | AMERICAN HISTORY SINCE 1865 (**)                  |
| PSCI 1100    | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| ECON 2200    | PRINCIPLES OF ECONOMICS (MICRO) (** ^)            |
| or ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)                   |
| ECON 2400    | PRINCIPLES OF ECONOMICS FOR EDUCATORS (^)         |
| GEOG 1000    | WORLD REGIONAL GEOGRAPHY (**)                     |
| GEOG 1020    | INTRODUCTION TO HUMAN GEOGRAPHY (**)              |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Middle Level English Language Arts Secondary Education, Bachelor Science in Education - Middle Level English Language Arts Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Distribution Requirements</b>  |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 100 Hours Required</b>  |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |

**All of the following: 51**

|             |  |
|-------------|--|
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 4120    | READING & WRITING IN ELEMENTARY CONTENT AREAS (^)                |
| TED 4370    | TEACHING AT THE MIDDLE LEVEL (^)                                 |
| TED 4660    | YOUNG ADULT LITERATURE   |
| TED 2380    | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| TED 3550    | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690    | LITERACY AND LEARNING (^)  |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600    | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |

**English Language Arts: 24 Hours****All of the following: 12**

|           |   |
|-----------|---|
| TED 3750  | TEACHING GRAMMAR IN CONTEXT (^)   |
| TED 4610  | TEACHING OF WRITING THROUGHOUT THE CURRICULUM (^)                         |
| ENGL 4960 | TOPICS IN LANGUAGE AND LITERATURE (^ Great Works of American Literature ) |
| ENGL 4490 | GREAT WORKS OF BRITISH LITERATURE (^)                                     |

**Select one of the following: 3**

|           |  |
|-----------|--|
| ENGL 2310 | INTRODUCTION TO BRITISH LITERATURE I (** ^)  |
| ENGL 2320 | INTRODUCTION TO BRITISH LITERATURE II (** ^) |

**Select one of the following: 3**

|           |   |
|-----------|---|
| ENGL 2410 | CRITICAL APPROACHES TO LITERATURE (^)       |
| ENGL 2420 | CRITICAL APPROACHES TO LANGUAGE STUDIES (^) |

**Select one of the following: 3**

|           |                               |
|-----------|-------------------------------|
| ENGL 2450 | AMERICAN LITERATURE I (** ^)  |
| ENGL 2460 | AMERICAN LITERATURE II (** ^) |

**Select one of the following: 3**

|           |                                   |
|-----------|-----------------------------------|
| ENGL 4750 | COMPOSITION THEORY & PEDAGOGY (^) |
| ENGL 4730 | CONTEMPORARY RHETORIC (^)         |

**Select second endorsement 25-26****Mathematics Endorsement - 26 Hours**

|              |  |
|--------------|--|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (**) |
| or MATH 1130 | QUANTITATIVE LITERACY  |
| MATH 1320    | COLLEGE ALGEBRA (^)  |
| MATH 1330    | TRIGONOMETRY (^)   |
| MATH 1950    | CALCULUS I (^)   |
| MTCH 2000    | MATHEMATICS FOR ELEMENTARY TEACHERS I (^)                    |
| MTCH 2010    | MATHEMATICS FOR ELEMENTARY TEACHERS II (^)                   |

MATH 3850 HISTORY OF MATHEMATICS (^)

STAT 3000 STATISTICAL METHODS I (^)

**Science Endorsement - 25 Hours**

|           |   |
|-----------|---|
| BIOL 1020 | PRINCIPLES OF BIOLOGY (** can sub BIOL 1450)        |
| CHEM 1140 | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)            |
| CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) |
| GEOL 1170 | INTRODUCTION TO PHYSICAL GEOLOGY (**)               |
| GEOL 1180 | INTRODUCTION TO HISTORICAL GEOLOGY (^)              |
| PHYS 1030 | PHYSICS OF EVERYDAY LIFE (** ^)                     |
| PHYS 1034 | PHYSICS OF EVERYDAY LIFE LABORATORY (** ^)          |
| PHYS 1350 | PRINCIPLES OF ASTRONOMY (** ^)                      |
| PHYS 1354 | INTRODUCTORY ASTRONOMY LAB (** ^)                   |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Middle Level Mathematics Secondary Education, Bachelor Science in Education - Middle Level Mathematics Endorsement Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-"required

**Fundamental Skills 15****Writing – 6 hrs.**

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Distribution Requirements 13**

Social Science - 3 hrs

Humanities - 3 hrs

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts - 3 hrs

**Individual and Social Responsibility 6**

Cultural Knowledge - 3 hrs

Civic Knowledge and Engagement - 3 hrs

**MAJOR REQUIREMENTS - 101 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 51**

TED 2100 EDUCATIONAL FOUNDATIONS (^)

TED 2200 HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (\*\* ^)

or TED 2060 EQUITY, LANGUAGE, AND CULTURAL LITERACY

TED 4120 READING &amp; WRITING IN ELEMENTARY CONTENT AREAS (^)

TED 4370 TEACHING AT THE MIDDLE LEVEL (^)

TED 4660 YOUNG ADULT LITERATURE

TED 2380 DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)

TED 2400 PLANNING FOR EFFECTIVE TEACHING (^)

TED 3550 SECONDARY CLASSROOM MANAGEMENT (^)

TED 3690 LITERACY AND LEARNING (^)

SPED 3800 DIFFERENTIATION AND INCLUSIVE PRACTICES (^)

TED 4000 SPECIAL METHODS IN THE CONTENT AREA (^)

TED 4000 SPECIAL METHODS IN THE CONTENT AREA (^)

TED 4600 CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)

**Mathematics Endorsement: 23 Hours****All of the following: 26**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (\*\*)

or MATH 1130 QUANTITATIVE LITERACY

MATH 1320 COLLEGE ALGEBRA (^)

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

MATH 1330 TRIGONOMETRY (^)

MATH 1950 CALCULUS I (^)

MTCH 2020 NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION (^)

MATH 3850 HISTORY OF MATHEMATICS (^)

STAT 3000 STATISTICAL METHODS I (^)

**Select one of the following:**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (\*\*)

MATH 1130 QUANTITATIVE LITERACY (\*\*)

STAT 1100 DATA LITERACY AND VISUALIZATION (\*\*)

STAT 1530 ELEMENTARY STATISTICS (\*\* ^)

**Select second endorsement 24-25****Science Endorsement - 25 Hours**

BIOL 1020 PRINCIPLES OF BIOLOGY (\*\* ^ can sub BIOL 1450)

CHEM 1140 FUNDAMENTALS OF COLLEGE CHEMISTRY (\*\* ^)

CHEM 1144 FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (\*\* ^)

GEOL 1170 INTRODUCTION TO PHYSICAL GEOLOGY (\*\*)

GEOL 1180 INTRODUCTION TO HISTORICAL GEOLOGY (^)

PHYS 1030 PHYSICS OF EVERYDAY LIFE (\*\* ^)

PHYS 1034 PHYSICS OF EVERYDAY LIFE LABORATORY (\*\* ^)

PHYS 1350 PRINCIPLES OF ASTRONOMY (\*\* ^)

PHYS 1354 INTRODUCTORY ASTRONOMY LAB (\*\* ^)

**English Language Arts: 24 hours****All of the following: 12 Hours**

TED 3750 TEACHING GRAMMAR IN CONTEXT (^)

TED 4590 TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS

ENGL 4960 TOPICS IN LANGUAGE AND LITERATURE (^ Great Works of American Literature )

ENGL 4490 GREAT WORKS OF BRITISH LITERATURE (^)

**Select one: 3 Hours**

ENGL 2310 INTRODUCTION TO BRITISH LITERATURE I (\*\* ^)

ENGL 2320 INTRODUCTION TO BRITISH LITERATURE II (\*\* ^)

**Select one: 3 Hours**

ENGL 2410 CRITICAL APPROACHES TO LITERATURE (^)

ENGL 2420 CRITICAL APPROACHES TO LANGUAGE STUDIES (^)

**Select one: 3 Hours**

ENGL 2450 AMERICAN LITERATURE I (\*\* ^)

ENGL 2460 AMERICAN LITERATURE II (\*\* ^)

**Select one: 3 Hours**

ENGL 4750 COMPOSITION THEORY &amp; PEDAGOGY (^)

ENGL 4730 CONTEMPORARY RHETORIC (^)

**Social Science Endorsement: 24 Hours**

HIST 1000 WORLD HISTORY TO 1500 (\*\*)

HIST 1110 AMERICAN HISTORY TO 1865 (\*\*)

HIST 1120 AMERICAN HISTORY SINCE 1865 (\*\*)

PSCI 1100 INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (\*\*)

PSCI 3040 GOVERNMENT AND POLITICS OF NEBRASKA (^)

ECON 2400 PRINCIPLES OF ECONOMICS FOR EDUCATORS (^)

GEOG 1000 WORLD REGIONAL GEOGRAPHY (\*\*)

GEOG 1020 INTRODUCTION TO HUMAN GEOGRAPHY (\*\*)

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**Middle Level Science****Secondary Education, Bachelor Science in Education - Middle Level Science Endorsement Requirements**

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |
| Minimum of "C-" required                                  |       |         |



**Fundamental Skills 15****Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND  
INFORMATION LITERACY**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE  
PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an  
approved data literacy course, or any approved natural or  
social science general education course.**Distribution Requirements 13**

Social Science - 3 hrs

Humanities - 3 hrs

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts - 3 hrs

**Individual and Social Responsibility 6**

Cultural Knowledge - 3 hrs

Civic Knowledge and Engagement - 3 hrs

**MAJOR REQUIREMENTS - 100 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 51**

TED 2100 EDUCATIONAL FOUNDATIONS (^)

TED 2200 HUMAN RELATIONS FOR BIAS-FREE  
CLASSROOMS (\*\* ^)

or TED 2060 EQUITY, LANGUAGE, AND CULTURAL LITERACY

TED 4120 READING & WRITING IN ELEMENTARY  
CONTENT AREAS (^)

TED 4370 TEACHING AT THE MIDDLE LEVEL (^)

TED 4660 YOUNG ADULT LITERATURE

TED 2380 DEVELOPMENT AND LEARNING IN  
ADOLESCENCE (^)

TED 2400 PLANNING FOR EFFECTIVE TEACHING (^)

TED 3550 SECONDARY CLASSROOM  
MANAGEMENT (^)

TED 3690 LITERACY AND LEARNING (^)

SPED 3800 DIFFERENTIATION AND INCLUSIVE  
PRACTICES (^)TED 4000 SPECIAL METHODS IN THE CONTENT  
AREA (^)TED 4000 SPECIAL METHODS IN THE CONTENT  
AREA (^)TED 4600 CLINICAL PRACTICE AND SEMINAR:  
ELEMENTARY OR SECONDARY LEVEL (^)**Science Endorsement - 25 Hours****All of the following: 25**BIOL 1020 PRINCIPLES OF BIOLOGY (\*\* ^ can sub  
BIOL 1450)CHEM 1140 FUNDAMENTALS OF COLLEGE  
CHEMISTRY (\*\* ^)CHEM 1144 FUNDAMENTALS OF COLLEGE  
CHEMISTRY LABORATORY (\*\* ^)GEOL 1170 INTRODUCTION TO PHYSICAL GEOLOGY  
(\*\*)GEOL 1180 INTRODUCTION TO HISTORICAL  
GEOLOGY (^)

PHYS 1030 PHYSICS OF EVERYDAY LIFE (\*\* ^)

PHYS 1034 PHYSICS OF EVERYDAY LIFE  
LABORATORY (\*\* ^)

PHYS 1350 PRINCIPLES OF ASTRONOMY (\*\* ^)

PHYS 1354 INTRODUCTORY ASTRONOMY LAB (\*\* ^)

**Select second endorsement 24-26****Mathematics Endorsement - 26 Hours**MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING (\*\*)

or MATH 1130 QUANTITATIVE LITERACY

MATH 1320 COLLEGE ALGEBRA (^)

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

MATH 1330 TRIGONOMETRY (^)

MATH 1950 CALCULUS I (^)

MTCH 2000 MATHEMATICS FOR ELEMENTARY  
TEACHERS I (^)MTCH 2010 MATHEMATICS FOR ELEMENTARY  
TEACHERS II (^)

MATH 3850 HISTORY OF MATHEMATICS (^)

STAT 3000 STATISTICAL METHODS I (^)

**English Language Arts Endorsement - 24 Hours**

TED 3750 TEACHING GRAMMAR IN CONTEXT (^)

TED 4590 TEACHING AND LEARNING IN DIGITAL  
ENVIRONMENTSENGL 4960 TOPICS IN LANGUAGE AND LITERATURE  
(^ Great Works of American Literature)ENGL 4490 GREAT WORKS OF BRITISH LITERATURE  
(^)**Select one: 3 Hours**ENGL 2310 INTRODUCTION TO BRITISH LITERATURE  
I (\*\* ^)ENGL 2320 INTRODUCTION TO BRITISH LITERATURE  
II (\*\* ^)**Select one: 3 Hours**ENGL 2410 CRITICAL APPROACHES TO LITERATURE  
(^)ENGL 2420 CRITICAL APPROACHES TO LANGUAGE  
STUDIES (^)**Select one: 3 Hours**

ENGL 2450 AMERICAN LITERATURE I (\*\* ^)

ENGL 4730 CONTEMPORARY RHETORIC (\*\* ^)

**Select one: 3 Hours**

ENGL 4750 COMPOSITION THEORY &amp; PEDAGOGY (^)

ENGL 4730 CONTEMPORARY RHETORIC (^)

**Social Science Endorsement - 24 Hours**

HIST 1000 WORLD HISTORY TO 1500 (\*\*)

HIST 1110 AMERICAN HISTORY TO 1865 (\*\*)

HIST 1120 AMERICAN HISTORY SINCE 1865 (\*\*)

|           |   |
|-----------|---|
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| PSCI 3040 | GOVERNMENT AND POLITICS OF NEBRASKA (^)           |
| ECON 2400 | PRINCIPLES OF ECONOMICS FOR EDUCATORS (^)         |
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY (**)                     |
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY (**)              |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Middle Level Social Science Secondary Education, Bachelor Science in Education - Middle Level Social Science Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Distribution Requirements</b>  |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 100 Hours</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>51</b> |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                             |           |

|             |  |
|-------------|--|
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 4120    | READING & WRITING IN ELEMENTARY CONTENT AREAS (^)                |
| TED 4370    | TEACHING AT THE MIDDLE LEVEL (^)                                 |
| TED 4660    | YOUNG ADULT LITERATURE   |
| TED 2380    | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| TED 3550    | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690    | LITERACY AND LEARNING (^)  |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600    | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |

**Social Science Endorsement - 24 Hours****All of the following:** **24**

|              |   |
|--------------|---|
| HIST 1000    | WORLD HISTORY TO 1500 (**)                        |
| HIST 1110    | AMERICAN HISTORY TO 1865 (**)                     |
| HIST 1120    | AMERICAN HISTORY SINCE 1865 (**)                  |
| PSCI 1100    | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| ECON 2200    | PRINCIPLES OF ECONOMICS (MICRO) (** ^)            |
| or ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)                   |
| ECON 2400    | PRINCIPLES OF ECONOMICS FOR EDUCATORS (^)         |
| GEOG 1000    | WORLD REGIONAL GEOGRAPHY (**)                     |
| GEOG 1020    | INTRODUCTION TO HUMAN GEOGRAPHY (**)              |

**Select second endorsement** **25-26**

|   |  |
|---|--|
| <b>Mathematics Endorsement - 26 Hours</b> |  |
| MATH 1120                                 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (**) |
| or MATH 1130                              | QUANTITATIVE LITERACY  |
| MATH 1320                                 | COLLEGE ALGEBRA (^)  |
| or MATH 1300                              | COLLEGE ALGEBRA WITH SUPPORT                                 |
| MATH 1330                                 | TRIGONOMETRY (^)   |
| MATH 1950                                 | CALCULUS I (^)   |
| MTCH 2000                                 | MATHEMATICS FOR ELEMENTARY TEACHERS I (^)                    |
| MTCH 2010                                 | MATHEMATICS FOR ELEMENTARY TEACHERS II (^)                   |
| MATH 3850                                 | HISTORY OF MATHEMATICS (^)                                   |
| STAT 3000                                 | STATISTICAL METHODS I (^)                                    |
| <b>Science Endorsement - 25 Hours</b>     |  |
| BIOL 1020                                 | PRINCIPLES OF BIOLOGY (** ^ can sub BIOL 1450)               |
| CHEM 1140                                 | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)                     |
| CHEM 1144                                 | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)          |
| GEOL 1170                                 | INTRODUCTION TO PHYSICAL GEOLOGY (**)                        |

|           |  |
|-----------|--|
| GEOL 1180 | INTRODUCTION TO HISTORICAL GEOLOGY (^)     |
| PHYS 1030 | PHYSICS OF EVERYDAY LIFE (** ^)            |
| PHYS 1034 | PHYSICS OF EVERYDAY LIFE LABORATORY (** ^) |
| PHYS 1350 | PRINCIPLES OF ASTRONOMY (** ^)             |
| PHYS 1354 | INTRODUCTORY ASTRONOMY LAB (** ^)          |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Middle Level Math and Social Science Endorsement Four Year Plan

**Freshman**

| <b>Fall</b>   |   | <b>Credits</b> |
|---|---|----------------|
| ENGL 1150   | ENGLISH COMPOSITION I   | 3              |
| GEOG 1000   | WORLD REGIONAL GEOGRAPHY  | 3              |
| MATH 1120<br>or MATH 1130   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>or QUANTITATIVE LITERACY | 3              |
| HIST 1000   | WORLD HISTORY TO 1500   | 3              |
| Natural Physical Science with Lab   |   | 4              |
| Attend Welcome Week events; other campus events   |   |                |
| Advising appointment for spring: Sept. - Oct.   |   |                |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |   |                |
| <b>Credits</b>  |   | <b>16</b>      |

**Spring**

|  |  |           |
|--|--|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3         |
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| HIST 1110  | AMERICAN HISTORY TO 1865                             | 3         |
| PSCI 1100  | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT         | 3         |
| MATH 1320  | COLLEGE ALGEBRA                                      | 3         |
| MUST establish 2.0+ NU GPA in order to enroll in TED 2100 and TED 2200 for fall semester |  |           |
| Advising appointment for fall: February - March  |  |           |
| Apply to Educator Preparation Program June 1 deadline                                    |  |           |
| Join a student organization  |  |           |
| <b>Credits</b>   |  | <b>15</b> |

**Summer**

|           |                             |   |
|-----------|-----------------------------|---|
| HIST 1120 | AMERICAN HISTORY SINCE 1865 | 3 |
| Arts      |                             | 3 |

**Credits** **6**

**Sophomore****Fall**

|  |   |           |
|--|---|-----------|
| MATH 1330  | TRIGONOMETRY  | 3         |
| TED 2100   | EDUCATIONAL FOUNDATIONS   | 3         |
| ECON 2200<br>or ECON 2220  | PRINCIPLES OF ECONOMICS (MICRO)<br>or PRINCIPLES OF ECONOMICS (MACRO) | 3         |
| GEOG 1020  | INTRODUCTION TO HUMAN GEOGRAPHY                                       | 3         |
| Data Literacy  |   | 3         |
| Advising appointment for spring: Sept. - Oct.                                      |   |           |
| Identify professional organization to get involved with. Begin resume development. |   |           |
| <b>Credits</b>   |   | <b>15</b> |

**Spring**

|  |  |           |
|--|--|-----------|
| MATH 1950  | CALCULUS I   | 5         |
| TED 2200<br>or TED 2060  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3         |
| ECON 2400  | PRINCIPLES OF ECONOMICS FOR EDUCATORS  | 3         |
| TED 4660   | YOUNG ADULT LITERATURE   | 3         |
| Advising appointment for fall: February - March  |  |           |
| MUST by August 1st have 2.75 minimum NU GPA to progress in Educator Preparation Program. |  |           |
| <b>Credits</b>   |  | <b>14</b> |

**Junior****Fall**

|   |   |           |
|---|---|-----------|
| TED 2380                                      | DEVELOPMENT AND LEARNING IN ADOLESCENCE                         | 3         |
| TED 2400                                      | PLANNING FOR EFFECTIVE TEACHING                                 | 6         |
| MTCH 2020                                     | NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION | 3         |
| TED 4120                                      | READING & WRITING IN ELEMENTARY CONTENT AREAS                   | 3         |
| Advising appointment for spring: Sept. - Oct. |   |           |
| <b>Credits</b>                                |   | <b>15</b> |

**Spring**

|   |   |           |
|---|---|-----------|
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT          | 3         |
| TED 3690  | LITERACY AND LEARNING                   | 3         |
| SPED 3800                                       | DIFFERENTIATION AND INCLUSIVE PRACTICES | 3         |
| MATH 3850                                       | HISTORY OF MATHEMATICS                  | 3         |
| Math Choose One - see worksheet                 |   | 3         |
| Advising appointment for fall: February - March |   |           |
| <b>Credits</b>                                  |   | <b>15</b> |

**Senior****Fall**

|          |  |   |
|----------|--|---|
| TED 4000 | SPECIAL METHODS IN THE CONTENT AREA (MATH)           | 3 |
| TED 4000 | SPECIAL METHODS IN THE CONTENT AREA (SOCIAL SCIENCE) | 3 |

|   |  |            |
|---|--|------------|
| STAT 3000   | STATISTICAL METHODS I  | 3          |
| TED 4370  | TEACHING AT THE MIDDLE LEVEL                                 | 3          |
| Take Praxis II-Middle Level Mathematics #5164, Middle Level Social Sciences #5089 |  |            |
| Advising appointment for spring: Sept. - Oct.                                     |  |            |
| Apply for clinical practice at beginning of fall term.                            |  |            |
| <b>Credits</b>  |  | <b>12</b>  |
| <b>Spring</b>   |  |            |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12         |
| Apply for graduation  |  |            |
| <b>Credits</b>  |  | <b>12</b>  |
| <b>Total Credits</b>  |  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

## Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

### GPA Requirements:

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Secondary Education, Bachelor Science in Education - Middle Level Science and Social Science Endorsement Four Year Plan

|   |   |                |
|---|---|----------------|
| <b>Freshman</b>   |   |                |
| <b>Fall</b>   |   | <b>Credits</b> |
| ENGL 1150   | ENGLISH COMPOSITION I   | 3              |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                                  | 3              |
| MATH 1200   | QUANTITATIVE LITERACY   | 3              |
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT  | 3              |
| HIST 1000   | WORLD HISTORY TO 1500   | 3              |
| Attend Welcome Week events; other campus events   |   |                |
| Advising appointment for spring: Sept. - Oct.   |   |                |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |   |                |
| <b>Credits</b>  |   | <b>15</b>      |
| <b>Spring</b>   |   |                |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   | 3              |
| BIOL 1330   | ENVIRONMENTAL BIOLOGY   | 3              |
| PSCI 3040   | GOVERNMENT AND POLITICS OF NEBRASKA   | 3              |
| HIST 1110   | AMERICAN HISTORY TO 1865  | 3              |
| Social Science  |   | 3              |
| MUST establish 2.5+ NU GPA in order to enroll in TED 2100 and TED 2200 for fall semester  |   |                |
| Advising appointment for fall: February - March   |   |                |
| Join a student organization   |   |                |
| Make a plan to take the Praxis Core   |   |                |
| <b>Credits</b>  |   | <b>15</b>      |
| <b>Sophomore</b>  |   |                |
| <b>Fall</b>   |   |                |
| TED 2100  | EDUCATIONAL FOUNDATIONS   | 3              |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS  | 3              |
| CHEM 1140<br>& CHEM 1144  | FUNDAMENTALS OF COLLEGE CHEMISTRY<br>and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY | 5              |
| GEOG 1000   | WORLD REGIONAL GEOGRAPHY  | 3              |
| Humanities (not HIST)   |   | 3              |
| Advising appointment for spring: Sept. - Oct.   |   |                |
| Identify professional organization to get involved with. Begin resume development.  |   |                |
| Apply to EPP program by Oct. 1 deadline   |   |                |
| <b>Credits</b>  |   | <b>17</b>      |
| <b>Spring</b>   |   |                |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE   | 3              |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING   | 6              |
| ECON 2400   | PRINCIPLES OF ECONOMICS FOR EDUCATORS   | 3              |
| BIOL 1330   | ENVIRONMENTAL BIOLOGY   | 3              |
| Advising appointment for fall: February - March   |   |                |

MUST pass PRAXIS Core by May 30th and have 2.75 minimum NU GPA to progress in Educator Preparation Program.

### Credits 15

#### Junior

##### Fall

|                          |  |   |
|--------------------------|--|---|
| TED 4370                 | TEACHING AT THE MIDDLE LEVEL   | 3 |
| GEOL 1170                | INTRODUCTION TO PHYSICAL GEOLOGY                                       | 4 |
| PHYS 1030<br>& PHYS 1034 | PHYSICS OF EVERYDAY LIFE<br>and PHYSICS OF EVERYDAY LIFE<br>LABORATORY | 4 |
| PHYS 1350<br>& PHYS 1354 | PRINCIPLES OF ASTRONOMY<br>and INTRODUCTORY ASTRONOMY LAB              | 4 |

Advising appointment for spring: Sept. - Oct.

### Credits 15

#### Spring

|           |  |   |
|-----------|--|---|
| TED 4120  | READING & WRITING IN ELEMENTARY<br>CONTENT AREAS | 3 |
| TED 3550  | SECONDARY CLASSROOM<br>MANAGEMENT                | 3 |
| TED 3690  | LITERACY AND LEARNING                            | 3 |
| GEOL 1180 | INTRODUCTION TO HISTORICAL<br>GEOLOGY            | 4 |

Advising appointment for fall: February - March

### Credits 13

#### Senior

##### Fall

|           |   |   |
|-----------|---|---|
| TED 4000  | SPECIAL METHODS IN THE CONTENT<br>AREA (SCIENCE)        | 3 |
| TED 4000  | SPECIAL METHODS IN THE CONTENT<br>AREA (SOCIAL SCIENCE) | 3 |
| SPED 3800 | DIFFERENTIATION AND INCLUSIVE<br>PRACTICES              | 3 |
| GEOG 1020 | INTRODUCTION TO HUMAN<br>GEOGRAPHY                      | 3 |
| HIST 1120 | AMERICAN HISTORY SINCE 1865                             | 3 |

Social Science 3

Take Praxis II-Middle Level Science #5435, Middle Level Social Sciences #5089

Advising appointment for spring: Sept. - Oct.

Apply for clinical practice at beginning of fall term.

### Credits 18

#### Spring

|          |   |    |
|----------|---|----|
| TED 4600 | CLINICAL PRACTICE AND SEMINAR:<br>ELEMENTARY OR SECONDARY LEVEL | 12 |
|----------|---|----|

Apply for graduation

### Credits 12

### Total Credits 120

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

## Additional Information About this Plan:

### University Degree Requirements:

The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time

(four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

### Placement Exams:

For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Music (P-12) Endorsement

## Music (P-12) Endorsement Requirements

Contact the School of Music (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/music/>) for Music Education

## Physics (7-12) Endorsement

## Secondary Education, Bachelor Science in Education - Physics (7-12) Endorsement Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

### Fundamental Skills 15

#### Writing – 6 hrs.

|           |                       |
|-----------|-----------------------|
| ENGL 1150 | ENGLISH COMPOSITION I |
|-----------|-----------------------|

|           |  |
|-----------|--|
| ENGL 1160 | COLLEGE RESEARCH AND<br>INFORMATION LITERACY |
|-----------|--|

#### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

#### Quantitative Literacy – 3 hrs.

|              |  |
|--------------|--|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                      |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE<br>PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                               |

#### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science - 3 hrs

Humanities - 3 hrs

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts - 3 hrs

### **Individual and Social Responsibility 6**

Cultural Knowledge - 3 hrs

Civic Knowledge and Engagement - 3 hrs

### **MAJOR REQUIREMENTS 94 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **All of the following: 39**

|             |  |
|-------------|--|
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 2380    | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| TED 3550    | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690    | LITERACY AND LEARNING (^)  |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600    | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |

### **Physics Endorsement required courses 55**

|           |  |
|-----------|--|
| PHYS 1350 | PRINCIPLES OF ASTRONOMY (** ^)             |
| PHYS 1354 | INTRODUCTORY ASTRONOMY LAB (** ^)          |
| PHYS 2110 | GENERAL PHYSICS I - CALCULUS LEVEL (** ^)  |
| PHYS 1154 | GENERAL PHYSICS LABORATORY I (** ^)        |
| PHYS 2120 | GENERAL PHYSICS II-CALCULUS LEVEL (^)      |
| PHYS 1164 | GENERAL PHYSICS LABORATORY II (^)          |
| PHYS 2130 | MODERN PHYSICS (^)                         |
| PHYS 3250 | MATHEMATICAL METHODS OF PHYSICS (^)        |
| PHYS 3300 | INTRODUCTION TO BIOMEDICAL PHYSICS (^)     |
| PHYS 3450 | CLASSICAL MECHANICS (^)                    |
| PHYS 3504 | EXPERIMENTAL PHYSICS I (^)                 |
| PHYS 3600 | THERMODYNAMICS AND STATISTICAL PHYSICS (^) |
| PHYS 3750 | ELECTRICITY AND MAGNETISM I (^)            |
| GEOL 1170 | INTRODUCTION TO PHYSICAL GEOLOGY (**)      |
| CHEM 1180 | GENERAL CHEMISTRY I (** ^)                 |
| CHEM 1184 | GENERAL CHEMISTRY I LABORATORY (** ^)      |
| MATH 1950 | CALCULUS I (^)                             |
| MATH 1960 | CALCULUS II (^)                            |
| MATH 1970 | CALCULUS III (^)                           |

### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## **Secondary Education, Bachelor Science in Education - Physics (7-12) Endorsement Four Year Plan**

### **Freshman**

| <b>Fall</b>           |  | <b>Credits</b> |
|-----------------------|--|----------------|
| ENGL 1150             | ENGLISH COMPOSITION I                                  | 3              |
| MATH 1950             | CALCULUS I   | 5              |
| TED 2100              | EDUCATIONAL FOUNDATIONS                                | 3              |
| PHYS 1350 & PHYS 1354 | PRINCIPLES OF ASTRONOMY and INTRODUCTORY ASTRONOMY LAB | 4              |

Student must test into MATH 1950 Calculus one based off of AP Math scores or Accuplacer exam, or bring transfer credit for MATH 1320 & 1330 or MATH 1340. These additional math courses may be required before MATH 1950 if the student does not test into it.

Advising appointment for spring: Sept. - Oct.

Attend welcome week events.

### **Credits 15**

### **Spring**

|                        |   |   |
|------------------------|---|---|
| MATH 1960              | CALCULUS II   | 4 |
| CMST 1110 or CMST 2120 | PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE                                   | 3 |
| PHYS 2110 & PHYS 1154  | GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I                 | 5 |
| TED 2200 or TED 2060   | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3 |

Advising appointment for fall: February - March

Join a student organization

MUST establish 2.0+ NU GPA (by the end of summer courses) in order to enroll in TED 2100 and TED 2200 for fall semester

Begin resume development.

### **Credits 15**

### **Summer**

|                       |   |   |
|-----------------------|---|---|
| PHYS 2120 & PHYS 1164 | GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II | 5 |
| ENGL 1160             | COLLEGE RESEARCH AND INFORMATION LITERACY                           | 3 |

Apply to Educator Preparation Program by June 1

### **Credits 8**



**Sophomore****Fall**

|           |   |   |
|-----------|---|---|
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE | 3 |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING         | 6 |
| MATH 1970 | CALCULUS III                            | 4 |

Advising appointment for spring: Sept. - Oct.

Identify professional organization to get involved with. Begin resume development.

**Credits** **13**

**Spring**

|                       |  |   |
|-----------------------|--|---|
| PHYS 3300             | INTRODUCTION TO BIOMEDICAL PHYSICS                     | 3 |
| PHYS 2130             | MODERN PHYSICS   | 4 |
| PHYS 3250             | MATHEMATICAL METHODS OF PHYSICS                        | 3 |
| CHEM 1180 & CHEM 1184 | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY | 4 |

Advising appointment for fall: February - March

MUST by August 1st have 2.75 minimum NU GPA to progress in Educator Preparation Program.

**Credits** **14**

**Junior****Fall**

|                                |   |   |
|--------------------------------|---|---|
| PHYS 3750                      | ELECTRICITY AND MAGNETISM I                                       | 3 |
| PHYS 3600 & PHYS 3504          | THERMODYNAMICS AND STATISTICAL PHYSICS and EXPERIMENTAL PHYSICS I | 4 |
| Cultural Knowledge             |   | 3 |
| Civic Knowledge and Engagement |   | 3 |

Advising appointment for spring: Sept. - Oct.

**Credits** **13**

**Spring**

|                |                                |   |
|----------------|--------------------------------|---|
| TED 3550       | SECONDARY CLASSROOM MANAGEMENT | 3 |
| TED 3690       | LITERACY AND LEARNING          | 3 |
| PHYS 3450      | CLASSICAL MECHANICS            | 3 |
| Arts           |                                | 3 |
| Social Science |                                | 3 |

Advising appointment for fall: February - March

**Credits** **15**

**Senior****Fall**

|            |   |   |
|------------|---|---|
| TED 4000   | SPECIAL METHODS IN THE CONTENT AREA     | 3 |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES | 3 |
| GEOL 1170  | INTRODUCTION TO PHYSICAL GEOLOGY        | 4 |
| Humanities |   | 3 |

Take Praxis II- Physics: Content Knowledge #5266

Advising appointment for spring: Sept. - Oct.

Apply for clinical practice at beginning of fall term.

|          |  |   |
|----------|--|---|
| Elective |  | 2 |
|----------|--|---|

**Credits** **15**

**Spring**

|          |  |    |
|----------|--|----|
| TED 4600 | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12 |
|----------|--|----|

**Apply for graduation**

|                      |            |
|----------------------|------------|
| <b>Credits</b>       | <b>12</b>  |
| <b>Total Credits</b> | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on the 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** Cumulative 2.5 GPA for Educator Preparation Program initial acceptance, cumulative 2.75 GPA for formal admission and graduation.

#Professional education course: a grade of C or higher is required to pass the class.

**Graduation Requirements:** Students must have a cumulative GPA of at least 2.75, no grade lower than "C" in required courses, and no incomplete in required courses to be recommended for graduation.

## Physical Education (P-6, 7-12) Endorsement

### Secondary Education, Bachelor Science in Education - Physical Education PK-12 Endorsement Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS  
or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING  
or MATH 1130 QUANTITATIVE LITERACY  
or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE  
PROFESSIONALS  
or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION  
STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science - 3 hrs

Humanities - 3 hrs

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts - 3 hrs

**Individual and Social Responsibility 6**

Cultural Knowledge - 3 hrs

Civic Knowledge and Engagement - 3 hrs

**MAJOR REQUIREMENTS - 83 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 50**

TED 2100 EDUCATIONAL FOUNDATIONS (^)  
TED 2200 HUMAN RELATIONS FOR BIAS-FREE  
CLASSROOMS (\*\* ^)  
or TED 2060 EQUITY, LANGUAGE, AND CULTURAL LITERACY  
TED 2300 HUMAN GROWTH AND LEARNING (^)  
or TED 2380 DEVELOPMENT AND LEARNING IN ADOLESCENCE  
TED 2400 PLANNING FOR EFFECTIVE TEACHING (^)  
KINS 2220 THEORY AND PRACTICE OF TEACHING  
& KINS 1600 RESISTANCE TRAINING  
and FUNDAMENTALS OF RESISTANCE  
TRAINING (^)  
KINS 2330 OUTDOOR/ADVENTURE ACTIVITIES (^)  
KINS 3060 METHODS OF PRESCHOOL AND  
PRIMARY SCHOOL PHYSICAL  
EDUCATION (^)  
KINS 3300 TEACHING DANCE IN THE SCHOOLS (^)  
KINS 3350 TEACHING & CURRICULUM  
DEVELOPMENT IN ELEMENTARY  
PHYSICAL EDUCATION (^)  
KINS 4150 ADAPTED PHYSICAL ACTIVITY THEORY  
AND PRACTICE (\*\* ^)  
SPED 3800 DIFFERENTIATION AND INCLUSIVE  
PRACTICES (^)  
KINS 4000 TEACHING & CURRICULUM  
DEVELOPMENT IN SECONDARY  
PHYSICAL EDUCATION (^)  
TED 4640 K-12 CLINICAL PRACTICE AND SEMINAR  
ELEMENTARY/SECONDARY (^)

**Physical Education Endorsement required courses 32**

BMCH 2400 HUMAN PHYSIOLOGY & ANATOMY I (\*\*)

BMCH 4630 BIOMECHANICS (^)  
or KINS 4100 APPLIED KINESIOLOGY

PHHB 3030 FIRST AID

KINS 1800 FITNESS FOR LIVING

KINS 2310 TEACHING GAMES 1 (^)

KINS 2320 TEACHING GAMES 2 (^)

KINS 2430 FOUNDATIONS IN KINESIOLOGY (\*\*)

KINS 2800 MOTOR LEARNING (^)

HEKI 2100 STATISTICS IN HEALTH AND  
KINESIOLOGY (^)  
or KINS 4930 MEASUREMENT AND EVALUATION IN  
KINESIOLOGY

KINS 4940 PHYSIOLOGY OF EXERCISE (^)

**Physical Education Activity Courses 1**

PEA select one from any: 111A – 111Z or 112A-112S

Cannot take 111H, 112L, or 112S

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Physical Education PK-12 Endorsement Four Year Plan

**Freshman****Fall**

|            |                              | <b>Credits</b> |
|------------|------------------------------|----------------|
| ENGL 1150  | ENGLISH COMPOSITION I        | 3              |
| MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT | 4              |
| Humanities |                              | 3              |
| KINS 2430  | FOUNDATIONS IN KINESIOLOGY   | 3              |

Attend Welcome Week events; other campus events

Advising appointment for spring: Sept. - Oct.

Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year

**Credits 13****Spring**

|   |  |   |
|---|--|---|
| ENGL 1160                                       | COLLEGE RESEARCH AND<br>INFORMATION LITERACY         | 3 |
| CMST 1110<br>or CMST 2120                       | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3 |
| KINS 1800                                       | FITNESS FOR LIVING                                   | 3 |
| TED 2100  | EDUCATIONAL FOUNDATIONS                              | 3 |
| Civic Knowledge and Engagement                  |  | 3 |
| Advising appointment for fall: February - March |  |   |

|   |  |           |
|---|--|-----------|
| Join a student organization   |  |           |
|   | <b>Credits</b>   | <b>15</b> |
| <b>Sophomore</b>  |  |           |
| <b>Fall</b>   |  |           |
| KINS 2310   | TEACHING GAMES 1   | 3         |
| KINS 2800   | MOTOR LEARNING   | 3         |
| TED 2200<br>or TED 2060   | HUMAN RELATIONS FOR BIAS-FREE<br>CLASSROOMS<br>or EQUITY, LANGUAGE, AND<br>CULTURAL LITERACY         | 3         |
| BMCH 2400   | HUMAN PHYSIOLOGY & ANATOMY I   | 4         |
| Elective  |  | 3         |
| Apply to Educator Preparation Program by Oct. 1 deadline                                    |  |           |
| Advising appointment for spring: Sept. - Oct.   |  |           |
|   | <b>Credits</b>   | <b>16</b> |
| <b>Spring</b>   |  |           |
| KINS 2320   | TEACHING GAMES 2   | 3         |
| TED 2380  | DEVELOPMENT AND LEARNING IN<br>ADOLESCENCE   | 3         |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING  | 6         |
| PEA 11A-Z/ 112A-S. Cannot be PEA 111H, 112L, or 112S,                                       |  | 1         |
| Advising appointment for fall: February - March   |  |           |
| Identify professional organization to get involved with. Begin<br>resume development.       |  |           |
| MUST by August 1st have 2.75 minimum NU GPA to progress<br>in Educator Preparation Program. |  |           |
|   | <b>Credits</b>   | <b>13</b> |
| <b>Summer</b>   |  |           |
| PHHB 3030   | FIRST AID (OR CPR Certification)   | 3         |
| Cultural Knowledge  |  | 3         |
|   | <b>Credits</b>   | <b>6</b>  |
| <b>Junior</b>   |  |           |
| <b>Fall</b>   |  |           |
| KINS 3060   | METHODS OF PRESCHOOL AND<br>PRIMARY SCHOOL PHYSICAL<br>EDUCATION                                     | 3         |
| KINS 3300   | TEACHING DANCE IN THE SCHOOLS  | 3         |
| KINS 2220<br>& KINS 1600  | THEORY AND PRACTICE OF TEACHING<br>RESISTANCE TRAINING<br>and FUNDAMENTALS OF RESISTANCE<br>TRAINING | 3         |
| HEKI 2100   | STATISTICS IN HEALTH AND<br>KINESIOLOGY  | 3         |
| Data Literacy   |  | 3         |
| Advising appointment for spring: Sept. - Oct. SPRING  |  |           |
|   | <b>Credits</b>   | <b>15</b> |
| <b>Spring</b>   |  |           |
| KINS 3350   | TEACHING & CURRICULUM<br>DEVELOPMENT IN ELEMENTARY<br>PHYSICAL EDUCATION                             | 3         |
| KINS 2330   | OUTDOOR/ADVENTURE ACTIVITIES   | 3         |
| KINS 4940   | PHYSIOLOGY OF EXERCISE   | 3         |
| KINS 4150   | ADAPTED PHYSICAL ACTIVITY THEORY<br>AND PRACTICE   | 3         |
| Elective  |  | 3         |
| Advising appointment for fall: February - March   |  |           |
|   | <b>Credits</b>   | <b>15</b> |

**Senior****Fall**

|  |   |   |
|--|---|---|
| KINS 4000  | TEACHING & CURRICULUM<br>DEVELOPMENT IN SECONDARY<br>PHYSICAL EDUCATION | 3 |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE<br>PRACTICES                              | 3 |
| KINS 4100<br>or BMCH 4630                                    | APPLIED KINESIOLOGY<br>or BIOMECHANICS                                  | 3 |
| Elective   |   | 3 |
| Arts   |   | 3 |
| Apply for Clinical Practice at beginning of fall semester    |   |   |
| Advising appointment for spring: Sept. - Oct.                |   |   |
| Take Praxis II- Physical Education: Content Knowledge # 5091 |   |   |

|                      |  |            |
|----------------------|--|------------|
|                      | <b>Credits</b>   | <b>15</b>  |
| <b>Spring</b>        |  |            |
| TED 4640             | K-12 CLINICAL PRACTICE AND SEMINAR<br>ELEMENTARY/SECONDARY | 12         |
| Apply for graduation |  |            |
|                      | <b>Credits</b>   | <b>12</b>  |
|                      | <b>Total Credits</b>                                       | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 MINIMUM NU GPA

# Physical Education (7-12) and Health (7-12) Endorsement

## Secondary Education, Bachelor Science in Education - Physical Education and Health Education 7-12 Dual Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 42 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>42</b> |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                             |           |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)         |           |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                 |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)             |           |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                     |           |
| KINS 3300   | TEACHING DANCE IN THE SCHOOLS (^)                       |           |

|  |   |           |
|--|---|-----------|
| TED 3550   | SECONDARY CLASSROOM MANAGEMENT (^)  |           |
| TED 3690   | LITERACY AND LEARNING (^)   |           |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)   |           |
| KINS 4000  | TEACHING & CURRICULUM DEVELOPMENT IN SECONDARY PHYSICAL EDUCATION (^)                       |           |
| TED 4600   | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)                            |           |
| <b>Physical Education and Health Dual Endorsement required courses</b> |   | <b>66</b> |
| PHHB 1500  | FOUNDATIONS IN PUBLIC HEALTH (**)   |           |
| PHHB 2070  | SUBSTANCE ABUSE AND MISUSE: PREVENTION AND MANAGEMENT                                       |           |
| PHHB 2310  | HEALTHFUL LIVING  |           |
| PHHB 2850  | STRESS MANAGEMENT   |           |
| PHHB 3030  | FIRST AID   |           |
| PHHB 3080  | HUMAN SEXUALITY   |           |
| PHHB 4000  | METHODS AND MATERIALS IN HEALTH EDUCATION (^)   |           |
| PHHB 4060  | SCHOOL HEALTH PROGRAMS (^)  |           |
| PHHB 4960  | PUBLIC HEALTH - PLANNING AND ORGANIZATION (^)   |           |
| BMCH 2400  | HUMAN PHYSIOLOGY & ANATOMY I (**)   |           |
| KINS 1800  | FITNESS FOR LIVING  |           |
| KINS 2220 & KINS 1600  | THEORY AND PRACTICE OF TEACHING RESISTANCE TRAINING and FUNDAMENTALS OF RESISTANCE TRAINING |           |
| KINS 2310  | TEACHING GAMES 1 (^)  |           |
| KINS 2320  | TEACHING GAMES 2 (^)  |           |
| KINS 2330  | OUTDOOR/ADVENTURE ACTIVITIES (^)  |           |
| KINS 2430  | FOUNDATIONS IN KINESIOLOGY (**)   |           |
| KINS 2800  | MOTOR LEARNING (^)  |           |
| PHHB 3030  | FIRST AID   |           |
| KINS 4150  | ADAPTED PHYSICAL ACTIVITY THEORY AND PRACTICE (** ^)  |           |
| BMCH 4630 or KINS 4100   | BIOMECHANICS (^) APPLIED KINESIOLOGY  |           |
| HEKI 2100  | STATISTICS IN HEALTH AND KINESIOLOGY (^)  |           |
| KINS 4940  | PHYSIOLOGY OF EXERCISE (^)  |           |

PEA 111A-111Z or 112A-112S. Cannot take PEA 111H, 112L, or 112S. **1**

### ELECTIVES

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Physical Education and Health Education 7-12 Dual Endorsement Four Year Plan

### Freshman

|   |                              | Credits   |
|---|------------------------------|-----------|
| Fall  |                              |           |
| ENGL 1150   | ENGLISH COMPOSITION I        | 3         |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT | 4         |
| CMST 1110   | PUBLIC SPEAKING FUNDS        | 3         |
| or CMST 2120  | or ARGUMENTATION AND DEBATE  |           |
| KINS 1800   | FITNESS FOR LIVING           | 3         |
| Attend Welcome Week events; other campus events   |                              |           |
| Advising appointment for spring: Sept. - Oct.   |                              |           |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |                              |           |
| <b>Credits</b>  |                              | <b>13</b> |

### Spring

|                |   |           |
|----------------|---|-----------|
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY             | 3         |
| BMCH 2400      | HUMAN PHYSIOLOGY & ANATOMY I                          | 4         |
| PHHB 2070      | SUBSTANCE ABUSE AND MISUSE: PREVENTION AND MANAGEMENT | 3         |
| KINS 2320      | TEACHING GAMES 2                                      | 3         |
| TED 2200       | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS              | 3         |
| or TED 2060    | or EQUITY, LANGUAGE, AND CULTURAL LITERACY            |           |
| <b>Credits</b> |   | <b>16</b> |

### Summer

|   |                              |          |
|---|------------------------------|----------|
| Cultural Knowledge                              |                              | 3        |
| PHHB 1500                                       | FOUNDATIONS IN PUBLIC HEALTH | 3        |
| Advising appointment for fall: February - March |                              |          |
| Join a student organization                     |                              |          |
| <b>Credits</b>                                  |                              | <b>6</b> |

### Sophomore

|  |                            |           |
|--|----------------------------|-----------|
| Fall   |                            |           |
| KINS 2430  | FOUNDATIONS IN KINESIOLOGY | 3         |
| PHHB 4060  | SCHOOL HEALTH PROGRAMS     | 3         |
| TED 2100   | EDUCATIONAL FOUNDATIONS    | 3         |
| KINS 2310  | TEACHING GAMES 1           | 3         |
| PHHB 3080  | HUMAN SEXUALITY            | 3         |
| Apply to Educator Preparation Program by Oct. 1 deadline |                            |           |
| Advising appointment for spring: Sept. - Oct.            |                            |           |
| <b>Credits</b>   |                            | <b>15</b> |

### Spring

|   |   |   |
|---|---|---|
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE   | 3 |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING   | 6 |
| KINS 2220 & KINS 1600                           | THEORY AND PRACTICE OF TEACHING RESISTANCE TRAINING and FUNDAMENTALS OF RESISTANCE TRAINING | 3 |
| Humanities                                      |   | 3 |
| Advising appointment for fall: February - March |   |   |

Identify professional organization to get involved with. Begin resume development.

MUST by August 1st have 2.75 minimum NU GPA to progress in Educator Preparation Program.

|                |                   | Credits  |
|----------------|-------------------|----------|
| Summer         |                   |          |
| PHHB 2310      | HEALTHFUL LIVING  | 3        |
| PHHB 2850      | STRESS MANAGEMENT | 3        |
| <b>Credits</b> |                   | <b>6</b> |

### Junior

|   |                                      |           |
|---|--------------------------------------|-----------|
| Fall  |                                      |           |
| TED 3550                                      | SECONDARY CLASSROOM MANAGEMENT       | 3         |
| TED 3690                                      | LITERACY AND LEARNING                | 3         |
| KINS 3300                                     | TEACHING DANCE IN THE SCHOOLS        | 3         |
| HEKI 2100                                     | STATISTICS IN HEALTH AND KINESIOLOGY | 3         |
| PHHB 3030                                     | FIRST AID                            | 3         |
| Data Literacy                                 |                                      | 3         |
| Advising appointment for spring: Sept. - Oct. |                                      |           |
| <b>Credits</b>                                |                                      | <b>18</b> |

### Spring

|   |   |           |
|---|---|-----------|
| KINS 2330                                       | OUTDOOR/ADVENTURE ACTIVITIES                  | 3         |
| PHHB 4000                                       | METHODS AND MATERIALS IN HEALTH EDUCATION     | 3         |
| KINS 4940                                       | PHYSIOLOGY OF EXERCISE                        | 3         |
| KINS 2800                                       | MOTOR LEARNING                                | 3         |
| KINS 4150                                       | ADAPTED PHYSICAL ACTIVITY THEORY AND PRACTICE | 3         |
| Advising appointment for fall: February - March |   |           |
| <b>Credits</b>                                  |   | <b>15</b> |

### Senior

|  |   |           |
|--|---|-----------|
| Fall   |   |           |
| KINS 4000  | TEACHING & CURRICULUM DEVELOPMENT IN SECONDARY PHYSICAL EDUCATION | 3         |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES                           | 3         |
| PHHB 4960  | PUBLIC HEALTH - PLANNING AND ORGANIZATION                         | 3         |
| KINS 4100  | APPLIED KINESIOLOGY   | 3         |
| PEA 111A-Z or 112A-S. Cannot complete PEA 111H, 112L, or 112S                            |   | 1         |
| Arts   |   | 3         |
| Apply for Clinical Practice at beginning of fall semester                                |   |           |
| Advising appointment for spring: Sept. - Oct.  |   |           |
| Take Praxis II- Physical Education: Content Knowledge # 5091 and Health Education # 5551 |   |           |
| <b>Credits</b>   |   | <b>16</b> |

### Spring

|                      |  |            |
|----------------------|--|------------|
| TED 4600             | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12         |
| Apply for graduation |  |            |
| <b>Credits</b>       |  | <b>12</b>  |
| <b>Total Credits</b> |  | <b>132</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** 2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 MINIMUM NU GPA

## Science (7-12) Endorsement Secondary Education, Bachelor Science in Education - Science (7-12) Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |

|   |  |
|---|--|
| or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT   |  |
| <b>Data Literacy – 3 hrs.</b>   |  |
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                                  |
| STAT 1530   | ELEMENTARY STATISTICS  |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge</b>   |  |
| <b>13</b>   |  |
| Social Science - 3 hrs  |  |
| Humanities - 3 hrs  |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts - 3 hrs  |  |
| <b>Individual and Social Responsibility</b>   |  |
| <b>6</b>  |  |
| Cultural Knowledge - 3 hrs  |  |
| Civic Knowledge and Engagement - 3 hrs  |  |
| <b>MAJOR REQUIREMENTS - 87 Hours Required</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following:</b>  |  |
| <b>39</b>   |  |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690  | LITERACY AND LEARNING (^)  |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |
| <b>Science Endorsement required courses</b>   |  |
| <b>48</b>   |  |
| BIOL 1450   | BIOLOGY I (** ^)   |
| BIOL 1750   | BIOLOGY II (^)   |
| CHEM 1180   | GENERAL CHEMISTRY I (** ^)                                       |
| CHEM 1184   | GENERAL CHEMISTRY I LABORATORY (** ^)                            |
| CHEM 1190   | GENERAL CHEMISTRY II (^)   |
| CHEM 1194   | GENERAL CHEMISTRY II LABORATORY (^)                              |
| CHEM 2210   | FUNDAMENTALS OF ORGANIC CHEMISTRY (^)                            |
| CHEM 2214   | FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)                 |
| PHYS 1110   | PHYSICS FOR LIFE SCIENCE I (** ^)                                |
| PHYS 1154   | GENERAL PHYSICS LABORATORY I (** ^)                              |
| PHYS 1120   | PHYSICS FOR LIFE SCIENCE II (^)                                  |
| PHYS 1164   | GENERAL PHYSICS LABORATORY II (^)                                |
| PHYS 1350   | PRINCIPLES OF ASTRONOMY (** ^)                                   |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY (**)                            |
| GEOL 1100   | EARTH SYSTEM SCIENCE (**)  |
| GEOL 1104   | EARTH SYSTEM SCIENCE LAB (**)                                    |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT (**)                                |



**ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Science (7-12) Endorsement Four Year Plan

**Freshman**

|   |  | Credits   |
|---|--|-----------|
| <b>Fall</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                | 3         |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                         | 4         |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| BIOL 1450   | BIOLOGY I  | 5         |
| Attend Welcome Week events; other campus events   |  |           |
| Advising appointment for spring: Sept. - Oct.   |  |           |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |  |           |
| <b>Credits</b>  |  | <b>15</b> |

**Spring**

|  |   |           |
|--|---|-----------|
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Social Science   |   | 3         |
| GEOL 1170  | INTRODUCTION TO PHYSICAL GEOLOGY          | 4         |
| BIOL 1750  | BIOLOGY II                                | 5         |
| Join a student organization  |   |           |
| MUST establish 2.0+ NU GPA (by the end of summer courses) in order to enroll in TED 2100 for fall semester |   |           |
| <b>Credits</b>   |   | <b>15</b> |

**Summer**

|                                |                         |          |
|--------------------------------|-------------------------|----------|
| Civic Knowledge and Engagement |                         | 3        |
| PHYS 1350                      | PRINCIPLES OF ASTRONOMY | 3        |
| <b>Credits</b>                 |                         | <b>6</b> |

**Sophomore**

|                          |  |   |
|--------------------------|--|---|
| <b>Fall</b>              |  |   |
| CHEM 1180<br>& CHEM 1184 | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY                                 | 4 |
| PHYS 1110<br>& PHYS 1154 | PHYSICS FOR LIFE SCIENCE I<br>and GENERAL PHYSICS LABORATORY I                               | 5 |
| TED 2200<br>or TED 2060  | HUMAN RELATIONS FOR BIAS-FREE<br>CLASSROOMS<br>or EQUITY, LANGUAGE, AND<br>CULTURAL LITERACY | 3 |

Advising appointment for spring: Sept. - Oct.

Identify professional organization to get involved with. Begin resume development.

|  |  | Credits | 12 |
|--|--|---------|----|
| <b>Spring</b>  |  |         |    |
| Humanities   |  |         | 3  |
| TED 2100   | EDUCATIONAL FOUNDATIONS  |         | 3  |
| PHYS 1120<br>& PHYS 1164   | PHYSICS FOR LIFE SCIENCE II<br>and GENERAL PHYSICS LABORATORY II |         | 5  |
| Arts   |  |         | 3  |
| Advising appointment for fall: February - March                      |  |         |    |
| Apply to Educator Preparation Program for March 1 or June 1 deadline |  |         |    |

|                    |  | Credits | 14       |
|--------------------|--|---------|----------|
| <b>Summer</b>      |  |         |          |
| Cultural Knowledge |  |         | 3        |
| Elective           |  |         | 3        |
| <b>Credits</b>     |  |         | <b>6</b> |

**Junior**

|  |  |  |   |
|--|--|--|---|
| <b>Fall</b>  |  |  |   |
| TED 2380   | DEVELOPMENT AND LEARNING IN ADOLESCENCE                        |  | 3 |
| TED 2400   | PLANNING FOR EFFECTIVE TEACHING                                |  | 6 |
| CHEM 1190<br>& CHEM 1194   | GENERAL CHEMISTRY II<br>and GENERAL CHEMISTRY II<br>LABORATORY |  | 4 |
| Advising appointment for spring: Sept. - Oct.  |  |  |   |
| MUST by January 10th have 2.75 minimum NU GPA to progress in Educator Preparation Program. |  |  |   |

|   |   | Credits | 13 |
|---|---|---------|----|
| <b>Spring</b>                                   |   |         |    |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT  |         | 3  |
| TED 3690  | LITERACY AND LEARNING   |         | 3  |
| CHEM 2210<br>& CHEM 2214                        | FUNDAMENTALS OF ORGANIC CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY |         | 5  |
| Data Literacy                                   |   |         | 3  |
| Advising appointment for fall: February - March |   |         |    |

|  |  | Credits | 14 |
|--|--|---------|----|
| <b>Senior</b>  |  |         |    |
| <b>Fall</b>  |  |         |    |
| TED 4000   | SPECIAL METHODS IN THE CONTENT AREA                  |         | 3  |
| SPED 3800  | DIFFERENTIATION AND INCLUSIVE PRACTICES              |         | 3  |
| GEOL 1100<br>& GEOL 1104                                 | EARTH SYSTEM SCIENCE<br>and EARTH SYSTEM SCIENCE LAB |         | 4  |
| Elective   |  |         | 3  |
| Take Praxis II- General Science: Content Knowledge #5436 |  |         |    |
| Advising appointment for spring: Sept. - Oct.            |  |         |    |
| Apply for clinical practice at beginning of fall term.   |  |         |    |

|                   |  | Credits | 13 |
|-------------------|--|---------|----|
| <b>Spring</b>     |  |         |    |
| Clinical Practice |  |         | 12 |

|                      |            |
|----------------------|------------|
| Apply for graduation |            |
| <b>Credits</b>       | <b>12</b>  |
| <b>Total Credits</b> | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information in this document is based off of the 2025-2026 catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** Cumulative 2.5 GPA for Educator Preparation Program initial acceptance, cumulative 2.75 GPA for formal admission and graduation.

**Graduation Requirements:** Students must have a cumulative GPA of at least 2.75, no grade lower than "C" in required courses, and no incomplete in required courses to be recommended for graduation.

## Social Science (7-12)

## Endorsement

### Secondary Education, Bachelor Science in Education - Social Science (7-12) Endorsement Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |

#### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

#### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge **13**

|   |
|---|
| Social Science - 3 hrs                                    |
| Humanities - 3 hrs  |
| Natural & Physical Science (must complete a lab) – 4 hrs. |
| Arts - 3 hrs  |

#### Individual and Social Responsibility **6**

|  |
|--|
| Cultural Knowledge - 3 hrs             |
| Civic Knowledge and Engagement - 3 hrs |

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### All of the following: **39**

|             |  |
|-------------|--|
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)                                      |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |
| TED 2380    | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)                              |
| TED 3550    | SECONDARY CLASSROOM MANAGEMENT (^)                               |
| TED 3690    | LITERACY AND LEARNING (^)  |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |
| TED 4000    | SPECIAL METHODS IN THE CONTENT AREA (^)                          |
| TED 4600    | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |

#### Social Science Endorsement required courses - 60 Hours

#### Choose Three: HIST 3000/4000 level (3 hours must be in American History) **9**

HIST  
HIST  
HIST

#### All of the following: **48**

|              |  |
|--------------|--|
| HIST 1000    | WORLD HISTORY TO 1500 (**)                   |
| HIST 1010    | WORLD HISTORY SINCE 1500 (**)                |
| HIST 1110    | AMERICAN HISTORY TO 1865 (**)                |
| HIST 1120    | AMERICAN HISTORY SINCE 1865 (**)             |
| ANTH 1050    | INTRODUCTION TO ANTHROPOLOGY (**)            |
| ANTH 3210    | AFRICAN PEOPLES AND CULTURES (^)             |
| or ANTH 3220 | PEOPLES AND CULTURES OF NATIVE NORTH AMERICA |
| or ANTH 3260 | WORLD CULTURES AND PEOPLES                   |

|              |  |
|--------------|--|
| or ANTH 3910 | INTRODUCTION TO PHYSICAL ANTHROPOLOGY                    |
| or ANTH 4210 | CULTURAL ANTHROPOLOGY                                    |
| or ANTH 4230 | ETHNOMEDICINES OF THE AMERICAS                           |
| or ANTH 4270 | DECOLONIZING NATIVE AMERICAN HEALTH                      |
| ECON 2200    | PRINCIPLES OF ECONOMICS (MICRO)<br>(** ^)                |
| or ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)                          |
| ECON 2400    | PRINCIPLES OF ECONOMICS FOR<br>EDUCATORS (^)             |
| GEOG 1000    | WORLD REGIONAL GEOGRAPHY (**)                            |
| GEOG 1020    | INTRODUCTION TO HUMAN<br>GEOGRAPHY                       |
| or GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY                              |
| or GEOG 3030 | GEOGRAPHY OF AFRICA                                      |
| or GEOG 3070 | GEOGRAPHY OF LATIN AMERICA                               |
| or GEOG 3080 | EAST & SOUTHEAST ASIA                                    |
| or GEOG 3330 | UNITED STATES & CANADA                                   |
| or GEOG 4120 | URBAN GEOGRAPHY  |
| or GEOG 4160 | URBAN SUSTAINABILITY                                     |
| or GEOG 4530 | HISTORICAL GEOGRAPHY OF THE UNITED STATES                |
| PSCI 1100    | INTRODUCTION TO AMERICAN<br>NATIONAL GOVERNMENT (**)     |
| PSCI 2130    | AFRICAN POLITICS   |
| or PSCI 2310 | INTRODUCTION TO POLITICAL THOUGHT                        |
| or PSCI 2500 | INTRODUCTION TO COMPARATIVE POLITICS                     |
| or PSCI 3010 | URBAN POLITICS   |
| or PSCI 3100 | LGBTQ+ POLITICS  |
| or PSCI 3120 | THE AFRICAN AMERICAN EXPERIENCE IN POLITICS              |
| or PSCI 3130 | WOMEN AND POLITICS                                       |
| or PSCI 3140 | LATINO/-A POLITICS                                       |
| or PSCI 3150 | ASIAN PACIFIC AMERICANS AND THE NEW<br>MINORITY POLITICS |
| or PSCI 3410 | LAW AND THE BLACK COMMUNITY                              |
| or PSCI 3510 | IMMIGRATION LAW AND LATINOS                              |
| PSYC 1010    | INTRODUCTION TO PSYCHOLOGY I                             |
| PSYC 3250    | RACE, PSYCHOLOGY & CULTURAL<br>DIFFERENCE                |
| or PSYC 3510 | EDUCATIONAL PSYCHOLOGY                                   |
| or PSYC 3540 | ADOLESCENT PSYCHOLOGY                                    |
| or PSYC 4150 | AFRICAN AMERICAN PSYCHOLOGY                              |
| or PSYC 4510 | PSYCHOLOGY IN THE SCHOOLS                                |
| or PSYC 4530 | CULTURAL PSYCHOLOGY                                      |
| or PSYC 4590 | PSYCHOLOGY OF EXCEPTIONAL CHILDREN                       |
| or PSYC 4680 | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING                |
| SOC 1010     | INTRODUCTORY SOCIOLOGY                                   |
| SOC 2100     | SOCIAL PROBLEMS  |
| or SOC 2150  | SOCIOLOGY OF FAMILIES                                    |
| or SOC 2800  | MAJOR SOCIAL ISSUES                                      |
| or SOC 3300  | SOCIOLOGY OF GENDER                                      |
| or SOC 3690  | SOCIAL INEQUALITY  |
| or SOC 3700  | INTRODUCTION TO LGBTQ STUDIES                            |
| or SOC 3840  | WORLD POPULATION AND SOCIAL ISSUES                       |
| or SOC 3900  | RACE AND ETHNIC RELATIONS IN THE U.S.                    |
| or SOC 4130  | SOCIOLOGY OF DEVIANCE                                    |
| or SOC 4140  | URBAN SOCIOLOGY  |
| or SOC 4150  | AMERICAN FAMILY PROBLEMS                                 |
| or SOC 4210  | DISABILITY AND SOCIETY                                   |
| or SOC 4310  | SOCIOLOGY OF SEXUALITIES                                 |

|             |  |
|-------------|--|
| or SOC 4440 | HUMAN CONNECTION, LONELINESS, & HEALTH |
| or SOC 4740 | SOCIAL JUSTICE AND SOCIAL CHANGE       |

**Choose 1 class** **3**

|      |
|------|
| ECON |
| GEOG |
| PSCI |

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 3.00 or higher to be formally accepted into the Educator Preparation Program with an endorsement in social science, be eligible to take TED and SPED required coursework that require formal admission, and to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Social Science (7-12) Endorsement Four Year Plan

### Freshman

| Fall      |                              | Credits |
|-----------|------------------------------|---------|
| ENGL 1150 | ENGLISH COMPOSITION I        | 3       |
| MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT | 4       |
| HIST 1000 | WORLD HISTORY TO 1500        | 3       |
| ANTH 1050 | INTRODUCTION TO ANTHROPOLOGY | 3       |
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY     | 3       |

MUST establish 2.0+ NU GPA in order to enroll in TED 2200 for spring semester

Attend Welcome Week events; other campus events

Advising appointment for spring: Sept. - Oct.

Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year

|                           | Credits  | 16 |
|---------------------------|--|----|
| <b>Spring</b>             |  |    |
| ENGL 1160                 | COLLEGE RESEARCH AND<br>INFORMATION LITERACY         | 3  |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3  |
| PSYC 1010                 | INTRODUCTION TO PSYCHOLOGY I                         | 3  |
| HIST 1010                 | WORLD HISTORY SINCE 1500                             | 3  |
| Arts                      |  | 3  |

Advising appointment for fall: February - March

|   |  |           |
|---|--|-----------|
| Join a student organization   |  |           |
| <b>Credits</b>  |  | <b>15</b> |
| <b>Sophomore</b>  |  |           |
| <b>Fall</b>   |  |           |
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT                       | 3         |
| HIST 1110   | AMERICAN HISTORY TO 1865   | 3         |
| SOC 1010  | INTRODUCTORY SOCIOLOGY   | 3         |
| TED 2100  | EDUCATIONAL FOUNDATIONS  | 3         |
| GEOG 1050   | HUMAN-ENVIRONMENT GEOGRAPHY  | 4         |
| Advising appointment for spring: Sept. - Oct.   |  |           |
| Identify professional organization to get involved with. Begin resume development.        |  |           |
| <b>Credits</b>  |  | <b>16</b> |
| <b>Spring</b>   |  |           |
| HIST 1120   | AMERICAN HISTORY SINCE 1865  | 3         |
| Data Literacy   |  | 3         |
| PSYC course from list   |  | 3         |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS                           | 3         |
| ECON 2200 or ECON 2220  | PRINCIPLES OF ECONOMICS (MICRO) or PRINCIPLES OF ECONOMICS (MACRO) | 3         |
| Advising appointment for fall: February - March   |  |           |
| Apply to Educator Preparation Program by March 1 deadline                                 |  |           |
| <b>Credits</b>  |  | <b>15</b> |
| <b>Summer</b>   |  |           |
| PSCI from list  |  | 3         |
| ECON/ GEOG/ PSCI course   |  | 3         |
| <b>Credits</b>  |  | <b>6</b>  |
| <b>Junior</b>   |  |           |
| <b>Fall</b>   |  |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE                            | 3         |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING                                    | 6         |
| ANTH course from list   |  | 3         |
| Advising appointment for spring: Sept. - Oct.   |  |           |
| MUST by January 10th have 3.0 minimum NU GPA to progress in Educator Preparation Program. |  |           |
| <b>Credits</b>  |  | <b>12</b> |
| <b>Spring</b>   |  |           |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT                                     | 3         |
| TED 3690  | LITERACY AND LEARNING  | 3         |
| ECON 2400   | PRINCIPLES OF ECONOMICS FOR EDUCATORS                              | 3         |
| HIST 3000-4000 level  |  | 3         |
| HIST 3000-4999  |  | 3         |
| Advising appointment for fall: February - March   |  |           |
| <b>Credits</b>  |  | <b>15</b> |
| <b>Senior</b>   |  |           |
| <b>Fall</b>   |  |           |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (SOCIAL STUDIES)               | 3         |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES                            | 3         |
| SOC class from list   |  | 3         |
| HIST 3000-4999  |  | 3         |

|  |  |            |
|--|--|------------|
| Elective   |  | 1          |
| Take Praxis II- Social Science # 5581                  |  |            |
| Advising appointment for spring: Sept. - Oct.          |  |            |
| Apply for clinical practice at beginning of fall term. |  |            |
| <b>Credits</b>   |  | <b>13</b>  |
| <b>Spring</b>  |  |            |
| TED 4600   | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL | 12         |
| Apply for graduation                                   |  |            |
| <b>Credits</b>   |  | <b>12</b>  |
| <b>Total Credits</b>                                   |  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

# World Language - Spanish (7-12) Endorsement

## Secondary Education, Bachelor Science in Education - World Language-Spanish (7-12) Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>39</b> |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)                             |           |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)         |           |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY                 |           |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)             |           |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)                     |           |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)                      |           |
| TED 3690  | LITERACY AND LEARNING (^)                               |           |

|   |  |           |
|---|--|-----------|
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)  |           |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)  |           |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)                           |           |
| <b>Spanish Endorsement required courses</b>           |  | <b>18</b> |
| SPAN 3010   | SPANISH FOR HERITAGE SPEAKERS I (^)  |           |
| or SPAN 3030  | SPANISH CONVERSATION   |           |
| SPAN 3020   | SPANISH FOR HERITAGE SPEAKERS II (^)   |           |
| or SPAN 3040  | SPANISH GRAMMAR AND COMPOSITION  |           |
| SPAN 3060   | READINGS IN SPANISH (^)  |           |
| SPAN 4030   | ADVANCED SPANISH CONVERSATION (or SPAN 3000/4000)  |           |
| SPAN 4040   | ADVANCED COMPOSITION AND STYLISTICS (^)  |           |
| SPAN 4800   | INTERNSHIP FOR LANGUAGE IN CONTEXT   |           |
| <b>Select one from Literature and Film</b>            |  | <b>3</b>  |
| SPAN 3170   | SURVEY OF SPANISH LITERATURE I (^)   |           |
| SPAN 3180   | INTRODUCTION TO SPANISH LITERATURE (^)   |           |
| SPAN 4140   | INTRODUCTION TO LATIN AMERICAN FILM  |           |
| SPAN 4170   | INTRODUCTION TO LATIN AMERICAN LITERATURES (^)   |           |
| SPAN 4190   | REPRESENTATIONS OF THE SPANISH CIVIL WAR IN FILM AND POPULAR CULTURE                       |           |
| SPAN 4950   | PRO-SEMINAR: LITERATURE AND/OR FILM (^)  |           |
| <b>Select one from Culture and Society</b>            |  | <b>3</b>  |
| SPAN 3050   | LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE |           |
| SPAN 3310   | SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD                           |           |
| SPAN 3410   | SPANISH CIVILIZATION (^)   |           |
| SPAN 3070   | SPECIAL TOPICS IN SPANISH  |           |
| SPAN 3420   | LATIN AMERICAN CIVILIZATION (^)  |           |
| SPAN 4960   | PRO-SEMINAR: CULTURE AND SOCIETY (^)   |           |
| <b>Select two Linguistics and Lang.for Profession</b> |  | <b>6</b>  |
| SPAN 3580   | BUSINESS SPANISH   |           |
| SPAN 4020   | LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING   |           |
| SPAN 4060   | INTRODUCTION TO TRANSLATION AND INTERPRETATION   |           |
| SPAN 4070   | HISPANIC BILINGUALISM  |           |
| SPAN 4080   | INTRODUCTION TO HISPANIC LINGUISTICS   |           |
| SPAN 4120   | HISPANIC SOCIOLINGUISTICS  |           |
| SPAN 4130   | SPANISH IN THE UNITED STATES   |           |
| SPAN 4220   | THE STRUCTURE OF SPANISH (^)   |           |
| SPAN 4330   | LINGUISTIC JUSTICE AND LATINO HEALTH   |           |
| SPAN 4760   | FORENSIC LINGUISTICS   |           |
| SPAN 4970   | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (^)                              |           |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - World Language-Spanish (7-12) Endorsement Four Year Plan

**Freshman**

|   |                       | <b>Credits</b> |
|---|-----------------------|----------------|
| <b>Fall</b>   |                       |                |
| ENGL 1150   | ENGLISH COMPOSITION I | 3              |
| Quantitative Literacy   |                       | 3              |
| SPAN 1110   | ELEMENTARY SPANISH I  | 5              |
| Social Science  |                       | 3              |
| Attend Welcome Week events; other campus events   |                       |                |
| Advising appointment for spring: Sept. - Oct.   |                       |                |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |                       |                |

|  |  | <b>Credits</b> |
|--|--|----------------|
| <b>Spring</b>  |  | <b>14</b>      |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3              |
| CMST 1110<br>or CMST 2120                                    | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3              |
| SPAN 1120  | ELEMENTARY SPANISH II                                | 5              |
| Natural/Physical Science with Lab                            |  | 4              |
| Advising appointment for fall: February - March              |  |                |
| Join a student organization                                  |  |                |
| Must establish 2.0+ NU GPA to enroll in TED 2100 or TED 2200 |  |                |

|               |                        | <b>Credits</b> |
|---------------|------------------------|----------------|
| <b>Summer</b> |                        | <b>15</b>      |
| SPAN 2110     | INTERMEDIATE SPANISH I | 3              |
| Data Literacy |                        | 3              |

|                                |                         | <b>Credits</b> |
|--------------------------------|-------------------------|----------------|
| <b>Sophomore</b>               |                         | <b>6</b>       |
| <b>Fall</b>                    |                         |                |
| TED 2100                       | EDUCATIONAL FOUNDATIONS | 3              |
| Civic Knowledge and Engagement |                         | 3              |
| SPAN 2120                      | INTERMEDIATE SPANISH II | 3              |
| Arts                           |                         | 3              |
| Electives for degree           |                         | 1              |

Advising appointment for spring: Sept. - Oct.

Identify professional organization to get involved with. Begin resume development.

Meet with Education Abroad advisor to explore options to study abroad.

|   |  | <b>Credits</b> |
|---|--|----------------|
| <b>Spring</b>   |  | <b>13</b>      |
| SPAN 3030<br>or SPAN 3010                                 | SPANISH CONVERSATION<br>or SPANISH FOR HERITAGE SPEAKERS I                             | 3              |
| SPAN 3060   | READINGS IN SPANISH  | 3              |
| TED 2200<br>or TED 2060                                   | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3              |
| Elective  |  | 3              |
| Cultural Knowledge  |  | 3              |
| Advising appointment for fall: February - March           |  |                |
| Apply to Educator Preparation Program by March 1 deadline |  |                |

|   |  | <b>Credits</b> |
|---|--|----------------|
| <b>Junior</b>                                 |  | <b>15</b>      |
| <b>Fall</b>                                   |  |                |
| TED 2380                                      | DEVELOPMENT AND LEARNING IN ADOLESCENCE                                | 3              |
| TED 2400                                      | PLANNING FOR EFFECTIVE TEACHING  | 6              |
| SPAN 3040<br>or SPAN 3020                     | SPANISH GRAMMAR AND COMPOSITION<br>or SPANISH FOR HERITAGE SPEAKERS II | 3              |
| SPAN 4030                                     | ADVANCED SPANISH CONVERSATION  | 3              |
| or  |  |                |
| SPAN 3000-4999                                |  |                |
| Advising appointment for spring: Sept. - Oct. |  |                |

|   |   | <b>Credits</b> |
|---|---|----------------|
| <b>Spring</b>   |   | <b>15</b>      |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT  | 3              |
| TED 3690  | LITERACY AND LEARNING   | 3              |
| SPAN 4040   | ADVANCED COMPOSITION AND STYLISTICS   | 3              |
| SPAN 4220<br>or SPAN 4970<br>or SPAN 3580<br>or SPAN 4020<br>or SPAN 4060<br>or SPAN 4070<br>or SPAN 4080<br>or SPAN 4120<br>or SPAN 4130<br>or SPAN 4330<br>or SPAN 4760 | THE STRUCTURE OF SPANISH<br>or PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS<br>or BUSINESS SPANISH<br>or LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING<br>or INTRODUCTION TO TRANSLATION AND INTERPRETATION<br>or HISPANIC BILINGUALISM<br>or INTRODUCTION TO HISPANIC LINGUISTICS<br>or HISPANIC SOCIOLINGUISTICS<br>or SPANISH IN THE UNITED STATES<br>or LINGUISTIC JUSTICE AND LATINO HEALTH<br>or FORENSIC LINGUISTICS | 3              |
| SPAN 4800   | INTERNSHIP FOR LANGUAGE IN CONTEXT  | 3              |
| Advising appointment for fall: February - March   |   |                |

|  |  | <b>Credits</b> |
|--|--|----------------|
|  |  | <b>15</b>      |



**Senior  
Fall**

|   |   |            |
|---|---|------------|
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA   | 3          |
| SPAN 4080<br>or SPAN 4220<br>or SPAN 3580<br>or SPAN 4020<br>or SPAN 4060<br>or SPAN 4070<br>or SPAN 4120<br>or SPAN 4130<br>or SPAN 4330<br>or SPAN 4760<br>or SPAN 4970 | INTRODUCTION TO HISPANIC LINGUISTICS<br>or THE STRUCTURE OF SPANISH<br>or BUSINESS SPANISH<br>or LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING<br>or INTRODUCTION TO TRANSLATION AND INTERPRETATION<br>or HISPANIC BILINGUALISM<br>or HISPANIC SOCIOLINGUISTICS<br>or SPANISH IN THE UNITED STATES<br>or LINGUISTIC JUSTICE AND LATINO HEALTH<br>or FORENSIC LINGUISTICS<br>or PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS | 3          |
| SPAN 3170<br>or SPAN 3180<br>or SPAN 4170<br>or SPAN 4950<br>or SPAN 4140<br>or SPAN 4190   | SURVEY OF SPANISH LITERATURE I<br>or INTRODUCTION TO SPANISH LITERATURE<br>or INTRODUCTION TO LATIN AMERICAN LITERATURES<br>or PRO-SEMINAR: LITERATURE AND/OR FILM<br>or INTRODUCTION TO LATIN AMERICAN FILM<br>or REPRESENTATIONS OF THE SPANISH CIVIL WAR IN FILM AND POPULAR CULTURE   | 3          |
| SPAN 3410<br>or SPAN 3050<br>or SPAN 3070<br>or SPAN 3310<br>or SPAN 3420<br>or SPAN 4960   | SPANISH CIVILIZATION<br>or LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE<br>or SPECIAL TOPICS IN SPANISH<br>or SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD<br>or LATIN AMERICAN CIVILIZATION<br>or PRO-SEMINAR: CULTURE AND SOCIETY   | 3          |
| SPED 3800   | DIFFERENTIATION AND INCLUSIVE PRACTICES<br><br>Take Praxis II- World Language – Spanish #5195<br>Advising appointment for spring: Sept. - Oct.<br>Apply for clinical practice (student teaching) at beginning of fall term.   | 3          |
| <b>Credits</b>  |   | <b>15</b>  |
| <b>Spring</b>   |   |            |
| TED 4600  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL<br><br>Apply for graduation  | 12         |
| <b>Credits</b>  |   | <b>12</b>  |
| <b>Total Credits</b>  |   | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Special Education (7-12) Endorsement

### Secondary Education, Special Education, Bachelor of Science in Education - Dual Endorsement (7-12) Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110<br>or CMST 2120                                 | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300 | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |

|   |  |
|---|--|
| Select one from the following:  |  |
| STAT 1100   | DATA LITERACY AND VISUALIZATION  |
| STAT 1530   | ELEMENTARY STATISTICS  |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |
| <b>Breadth of Knowledge</b>   | <b>13</b>  |
| Social Science – 3 hrs.   |  |
| Humanities – 3 hrs.   |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility</b>   | <b>6</b>   |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS - 69 Hours Required</b>   |  |
| **Course will satisfy UNO's General Education requirements  |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following:</b>  | <b>69</b>  |
| TED 2100  | EDUCATIONAL FOUNDATIONS (^)  |
| TED 2200  | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)  |
| or TED 2060   | EQUITY, LANGUAGE, AND CULTURAL LITERACY  |
| TED 2380  | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)  |
| TED 2400  | PLANNING FOR EFFECTIVE TEACHING (^)  |
| SPED 1500   | INTRODUCTION TO SPECIAL EDUCATION (** ^)   |
| SPED 4010   | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (^)                                   |
| SPED 4150   | READING AND WRITING INSTRUCTION FOR STUDENTS WITH DISABILITIES (^)                             |
| SPED 2300   | SPECIAL EDUCATION LAW & INDIVIDUAL EDUCATION PROGRAMS (^)                                      |
| SPED 4650   | TRANSITION PLANNING (^)  |
| SPED 3250   | SOCIAL, EMOTIONAL, AND BEHAVIORAL NEEDS OF CHILDREN WITH AUTISM AND DEVELOPMENTAL DISABILITIES |
| SPED 4710   | INTERACTIONS AND COLLABORATION (^)   |
| SPED 4810   | BEHAVIOR INTERVENTIONS AND SUPPORTS (^)  |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)   |
| TED 3690  | LITERACY AND LEARNING (^)  |
| SPED 3020   | EFFECTIVE DATA COLLECTION FOR INSTRUCTIONAL DECISIONS IN SPECIAL EDUCATION (^)                 |
| SPED 4640   | METHODS AND MATERIALS IN SPECIAL EDUCATION (^)   |
| SPED 4000   | PRACTICUM IN SPECIAL EDUCATION (^)   |
| TED 4000  | SPECIAL METHODS IN THE CONTENT AREA (^)  |
| SPED 4700   | CLINICAL PRACTICE IN SPECIAL EDUCATION (^)   |
| TED 4650  | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)                               |
| <b>Second Endorsement required</b>  |  |
| <b>ELECTIVES</b>  |  |
| Elective hours as required to reach a total of 120 hours  |  |

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## English as a Second Language (7-12) Endorsement Secondary Education, Bachelor Science in Education - Secondary English (7-12) with ESL Supplemental Endorsement Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science - 3 hrs  |   |           |
| Humanities - 3 hrs  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts - 3 hrs  |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |           |
| Civic Knowledge and Engagement - 3 hrs  |   |           |
| <b>MAJOR REQUIREMENTS - 96 Hours Required</b>   |   |           |

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

|                       |  |    |
|-----------------------|--|----|
| TED 2100              | EDUCATIONAL FOUNDATIONS (^)                                      | 42 |
| All of the following: |  |    |
| TED 2200              | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)                  |    |
| or TED 2060           | EQUITY, LANGUAGE, AND CULTURAL LITERACY                          |    |
| TED 2380              | DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)                      |    |
| TED 2400              | PLANNING FOR EFFECTIVE TEACHING (^)                              |    |
| SPED 3800             | DIFFERENTIATION AND INCLUSIVE PRACTICES (^)                      |    |
| TED 3550              | SECONDARY CLASSROOM MANAGEMENT (^)                               |    |
| TED 3690              | LITERACY AND LEARNING (^)  |    |
| TED 4000              | SPECIAL METHODS IN THE CONTENT AREA (^ Language Arts)            |    |
| TED 4000              | SPECIAL METHODS IN THE CONTENT AREA (^ ESL)                      |    |
| TED 4600              | CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^) |    |

#### English Endorsement - 39 Hours

|                              |   |           |
|------------------------------|---|-----------|
| <b>All of the following:</b> |   | <b>15</b> |
| ENGL 4750                    | COMPOSITION THEORY & PEDAGOGY (^)                 |           |
| or ENGL 4730                 | CONTEMPORARY RHETORIC                             |           |
| ENGL 4860                    | THE MODERN FAMILIAR ESSAY (^)                     |           |
| TED 3750                     | TEACHING GRAMMAR IN CONTEXT (^)                   |           |
| TED 4610                     | TEACHING OF WRITING THROUGHOUT THE CURRICULUM (^) |           |
| TED 4660                     | YOUNG ADULT LITERATURE                            |           |

|                    |  |          |
|--------------------|--|----------|
| <b>Select one:</b> |  | <b>3</b> |
| ENGL 2310          | INTRODUCTION TO BRITISH LITERATURE I (** ^)  |          |
| ENGL 2320          | INTRODUCTION TO BRITISH LITERATURE II (** ^) |          |
| ENGL 4340          | SHAKESPEARE (^)                              |          |

|                    |   |          |
|--------------------|---|----------|
| <b>Select one:</b> |   | <b>3</b> |
| ENGL 2410          | CRITICAL APPROACHES TO LITERATURE (^)       |          |
| ENGL 2420          | CRITICAL APPROACHES TO LANGUAGE STUDIES (^) |          |

|                    |                               |          |
|--------------------|-------------------------------|----------|
| <b>Select one:</b> |                               | <b>3</b> |
| ENGL 2450          | AMERICAN LITERATURE I (** ^)  |          |
| ENGL 2460          | AMERICAN LITERATURE II (** ^) |          |

|                    |   |          |
|--------------------|---|----------|
| <b>Select one:</b> |   | <b>3</b> |
| ENGL 4960          | TOPICS IN LANGUAGE AND LITERATURE (^Great Works of American Literature) |          |
| ENGL 4490          | GREAT WORKS OF BRITISH LITERATURE (^)                                   |          |

|                    |   |          |
|--------------------|---|----------|
| <b>Select one:</b> |   | <b>3</b> |
| ENGL 2250          | THE SHORT STORY (** ^)                      |          |
| ENGL 2260          | BLACK SHORT STORY (** ^)                    |          |
| ENGL 2280          | INTRODUCTION TO LANGUAGE (** ^)             |          |
| ENGL 2470          | SURVEY OF NATIVE AMERICAN LITERATURE (** ^) |          |
| ENGL 2490          | LATINO/A LITERATURE (** ^)                  |          |
| ENGL 4250          | WOMEN'S STUDIES IN LITERATURE (^)           |          |

**Select two, one must be 4000 level:** **6**

|           |  |
|-----------|--|
| ENGL 3100 | NATIVE AMERICAN LITERATURE: MAJOR FIGURES (^)            |
| ENGL 3400 | JUNIOR TOPICS IN BRITISH/IRISH/ANGLOPHONE LITERATURE (^) |
| ENGL 4230 | LATINO LITERATURE (^)                                    |
| ENGL 4240 | TEACHING LATINO LITERATURE                               |
| ENGL 4250 | WOMEN'S STUDIES IN LITERATURE (^)                        |
| ENGL 4260 | GLOBAL WOMEN WRITERS (^)                                 |
| ENGL 4240 | TEACHING LATINO LITERATURE (** ^)                        |
| ENGL 4260 | GLOBAL WOMEN WRITERS (^)                                 |
| ENGL 3150 | FORM AND STYLE IN CREATIVE NONFICTION (** ^)             |
| ENGL 3280 | IRISH LITERATURE I (** ^)                                |
| ENGL 3290 | IRISH LITERATURE II (** ^)                               |

**ENGLISH ELECTIVE: Choose one from the selected above courses** **3**

|                        |  |           |
|------------------------|--|-----------|
| <b>ESL endorsement</b> |  | <b>15</b> |
| TED 2050               | INTRODUCTION TO TEACHING ENGLISH AS A SECOND LANGUAGE (^)      |           |
| TED 2060               | EQUITY, LANGUAGE, AND CULTURAL LITERACY (^)                    |           |
| TED 3050               | FOUNDATIONS OF TEACHING ENGLISH AS A SECOND LANGUAGE (ESL) (^) |           |
| LLS 1000               | LATIN AMERICA: AN INTRODUCTION (**)                            |           |
| or LLS 1020            | INTRODUCTION TO CHICANO/LATINO STUDIES                         |           |
| TED 4000               | SPECIAL METHODS IN THE CONTENT AREA (^ ESL)                    |           |

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Coaching (7-12) Endorsement

### Coaching (7-12) Endorsement Requirements

| Code                  | Title   | Credits   |
|-----------------------|---|-----------|
| <b>Hours Required</b> |   | <b>12</b> |
| KINS 3010             | SCIENTIFIC PRINCIPLES OF COACHING                                 |           |
| PHHB 3030             | FIRST AID   |           |
| KINS 3040             | PREVENTION AND CARE OF ATHLETIC INJURIES                          |           |
| KINS 3480             | ORGANIZATION AND ADMINISTRATION OF ATHLETICS                      |           |
| or KINS 4000          | TEACHING & CURRICULUM DEVELOPMENT IN SECONDARY PHYSICAL EDUCATION |           |

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Information Technology (PK-12) Endorsement

### Information Technology PK-12 Endorsement Requirements

| Code                                | Title  | Credits   |
|-------------------------------------|--|-----------|
| <b>18 Hours Required</b>            |  |           |
| <b>All of the following:</b>        |  | <b>15</b> |
| CSCI 1200<br>or CSCI 1280           | COMPUTER SCIENCE PRINCIPLES<br>INTRODUCTION TO COMPUTATIONAL SCIENCE |           |
| CIST 1400                           | INTRODUCTION TO COMPUTER SCIENCE I                                   |           |
| CSCI 1620                           | INTRODUCTION TO COMPUTER SCIENCE II                                  |           |
| CYBR 1100<br>or CYBR 2600           | INTRODUCTION TO INFORMATION SECURITY<br>SYSTEM ADMINISTRATION        |           |
| TED 4000                            | SPECIAL METHODS IN THE CONTENT AREA                                  |           |
| <b>Select one of the following:</b> |  | <b>3</b>  |
| CIST 1300                           | INTRODUCTION TO WEB DEVELOPMENT                                      |           |
| CSCI 2850                           | PROGRAMMING ON THE INTERNET  |           |

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Health Science Education Endorsement

### Health Science Education Endorsement Requirements

| Code      | Title                           | Credits |
|-----------|---------------------------------|---------|
| KINS 1010 | INTRODUCTION TO SPORTS MEDICINE | 1       |
| BMCH 2400 | HUMAN PHYSIOLOGY & ANATOMY I    | 4       |

|                           |  |   |
|---------------------------|--|---|
| HEKI 2000                 | MEDICAL TERMINOLOGY                              | 1 |
| HEKI 4446                 | HEALTH SCIENCE EDUCATION                         | 3 |
| KINS 4100                 | APPLIED KINESIOLOGY                              | 3 |
| PHHB 1500<br>or PHHB 4130 | FOUNDATIONS IN PUBLIC HEALTH<br>COMMUNITY HEALTH | 3 |

**Total Credits 15**

For undergraduate candidates, the Health Sciences Education endorsement must be paired with one of the following endorsements: Science, Biology, Physical Education, or Health Education.

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Worked-Based Learning (9-12) Endorsement

### Work-Based Learning 9-12 Endorsement Requirements

| Code                    | Title  | Credits |
|-------------------------|--|---------|
| <b>3 Hours Required</b> |  |         |
| TED 4850                | COORDINATION TECHNIQUES IN WORK-BASED LEARNING |         |

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Education Minor

### Education Minor Requirements

| Code                    | Title   | Credits   |
|-------------------------|---|-----------|
| <b>Required Courses</b> |   | <b>12</b> |
| SPED 1500               | INTRODUCTION TO SPECIAL EDUCATION   |           |
| TED 2100                | EDUCATIONAL FOUNDATIONS   |           |
| TED 2200<br>or TED 2060 | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>EQUITY, LANGUAGE, AND CULTURAL LITERACY |           |

|  |   |           |
|--|---|-----------|
| TED 3100   | COMMUNITY EDUCATION:<br>TEACHING & PRACTICE IN INFORMAL<br>ENVIRONMENTS |           |
| <b>Select one course from the following **</b>   |   | <b>3</b>  |
| PA 3500  | NONPROFIT ORGANIZATIONS AND<br>MANAGEMENT                               |           |
| PSYC 3250  | RACE, PSYCHOLOGY & CULTURAL<br>DIFFERENCE                               |           |
| PSYC 3510  | EDUCATIONAL PSYCHOLOGY (*)  |           |
| PSYC 3520  | CHILD PSYCHOLOGY (*)  |           |
| PSYC 3540  | ADOLESCENT PSYCHOLOGY (*)   |           |
| PSYC 4260  | MORAL PSYCHOLOGY  |           |
| SOC 4550   | ORGANIZATIONAL DIVERSITY AND<br>INCLUSION                               |           |
| *Requires PSYC 1010 as a pre-requisite   |   |           |
| **Additional course options for the 5th course are subject to<br>approval by faculty through advising. |   |           |
| <b>Total Credits</b>   |   | <b>15</b> |

**Admission Requirements:** Students must have a minimum 2.0 GPA. Students must talk with their academic advisor about adding this minor, and the advisor will submit the request to add this minor.

**Student Performance:** No grade lower than a C will count toward the minor.

## Special Education and Communication Disorders

The mission of the Special Education and Communication Disorders department is to prepare dedicated practitioners, reflective scholars, and responsible citizens who are unique in their ability to facilitate, design, implement, and evaluate programs for individuals with disabilities. This is accomplished by creating opportunities for the acquisition and maintenance of knowledge, skills, and dispositions as prescribed by the Council for Exceptional Children, the Council on Academic Accreditation in Audiology and Speech-Language Pathology (for graduate program only), and state and federal regulations.

Undergraduate candidates follow a course of study with accompanying practical experiences that are grounded in theory, research, evidence-based practice, and experience. Our candidates develop essential interpersonal skills that make them valued members of collaborative, interdisciplinary teams in a variety of settings. Thus, each program of study is designed to promote problem solving skills that enable candidates to continue to broaden their skills and enhance their expertise throughout their professional career. These skills facilitate the recognition and integration of professional ethics with the individual needs and values of the communities they serve.

## Accreditation

For program accreditation information, please refer to this table (p. 512).

The undergraduate degree in communication disorders provides the fundamental prerequisite knowledge necessary for pursuing a graduate degree. The graduate degree is the minimal requirement for employment as a speech-language pathologist in Nebraska. The speech-language pathology graduate program provides candidates with the opportunity to acquire and maintain the knowledge, skills, and dispositions as prescribed by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CFCC), by the Nebraska Department of Education, and by Nebraska Health and Human Services.

## Contact

512 Roskens Hall  
6005 Dodge Street  
Omaha, NE 68182-0054  
402.554.2201

Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/special-education-communication-disorders/>)

## Students interested in becoming special education teachers must formally apply for admission to the Educator Preparation Program (EPP).

In order to be formally admitted to a program in special education and remain in good standing, a candidate must maintain an overall GPA of 2.75 or better. No grade below a "C" will be accepted in any professional education course, or any course in the specialization area.

- Application instructions (p. 527) for the Educator Preparation Program.

## Communication Disorders

For students pursuing the Communication Disorders major, no application is required. To continue with Communication Disorders (CDIS) courses, students must maintain a 3.0 NU GPA or higher.

## Early Admission to the Speech-Language Pathology Graduate Program via FAST track

For information regarding early admission to the Speech-Language Pathology Graduate Program via FAST Track, please refer to application information online here (p. 602).

## Degrees Offered

- Early Childhood Inclusive, Bachelor of Science (p. 530)
- Special Education Dual Endorsement with Elementary Education or Secondary Education, Bachelor of Science (p. 594)
- Special Education, Bachelor of Science (p. 595)
- Communication Disorders (Pre-Professional Program), Bachelor of Science

## Minor Offered

American Sign Language (ASL) Minor (p. 605)

## Education - Special Education Dual Endorsement with Elementary Education or Secondary Education, Bachelor of Science

This program is designed for candidates preparing for careers serving children and youth with disabilities. This program is part of the educator preparation program at either the elementary or secondary level. In the educator preparation program candidates must complete a dual endorsement in special education and elementary or secondary education. The preparation meets or exceeds the Council for Exceptional Children (CEC)



initial level special educator preparation standards for special education teachers.

## Elementary (K-6) Requirements

- Elementary and Special Education Dual Endorsement K-6 (p. 540)

## Secondary (7-12) Requirements

- Secondary and Special Education Dual Endorsement 7-12 (p. 590)

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

### Contact

512 Roskens Hall  
6005 Dodge Street  
Omaha, NE 68182-0054  
402.554.2201

Department Website (<https://www.unomaha.edu/college-of-education/special-education-communication-disorders/>)

Academic Advising and Field Experiences Website (<https://www.unomaha.edu/college-of-education/student-services/>)

## Education, Special Education Bachelor of Science Concentration

- Sign Language Interpreter (p. 599)

## Education - Special Education, Bachelor of Science

The BSED degree certificate in Special Education allows UNO to recommend graduates for Nebraska licensure in special education.

### Potential Career Opportunities/settings:

- Public School systems
- Private School systems

## Education - Special Education, Bachelor of Science

This program is designed for candidates preparing for careers serving children and youth with disabilities. This program prepares candidates to be special education teachers at the elementary or secondary level. The preparation meets or exceeds the Council for Exceptional Children (CEC) initial level special educator preparation standards for special education teachers.

## Other Information

### Praxis II Content Test

All educator preparation candidates are required to receive a passing score on the Praxis II content test in each endorsement area of their preparation prior to being awarded initial teacher certification through the Nebraska Department of Education (NDE).

This link (<http://www.ets.org/praxis/ne/requirements/>) will take you to the ETS website page for the Nebraska Department of Education requirements. The page lists the Nebraska requirements for each endorsement area.

## Student Organizations

### Allies for Sign Language (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/special-education-communication-disorders/student-involvement/asl.php>)

The main objective of this organization shall be to unite members and community for the purpose of fellowship, friendship and promote academic achievement; act as a resource to attract and retain deaf and hard of hearing students; provide a basis for cultural exchange among the Deaf students and the hearing students; advocate for accessibility; further the understanding of Deaf culture throughout the world; promote discussion of current trends and issues relating to deaf education; as well as provide social activities that include members of the deaf community.

For more information contact Julie Delkamiller by email at [jdelkamiller@unomaha.edu](mailto:jdelkamiller@unomaha.edu) or Jonathan Scherling via email at [jscherling@unomaha.edu](mailto:jscherling@unomaha.edu).

## Student Council for Exceptional Children

Student Council for Exceptional Children (SCEC) is an organization that is dedicated to advocating on behalf of individuals with disabilities. The student chapter is associated with the International Council for Exceptional Children. For more information contact Dr. Lisa Epp at [lepp@unomaha.edu](mailto:lepp@unomaha.edu) or Dr. Apryl Poch at [apoch@unomaha.edu](mailto:apoch@unomaha.edu).

### Contact

512 Roskens Hall  
6005 Dodge Street  
Omaha, NE 68182-0054  
402.554.2201

Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/special-education-communication-disorders/>)

## Elementary Education, Special Education, Bachelor of Science in Education Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |



**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS  
or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING  
or MATH 1130 QUANTITATIVE LITERACY  
or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE  
PROFESSIONALS  
or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION  
STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science - 3 hrs  
Humanities - 3 hrs  
Natural & Physical Science (must complete a lab) – 4 hrs.  
Arts - 3 hrs

**Individual and Social Responsibility 6**

Cultural Knowledge - 3 hrs  
Civic Knowledge and Engagement - 3 hrs

**MAJOR REQUIREMENTS - 78 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 78**

|             |  |
|-------------|--|
| MTCH 2000   | MATHEMATICS FOR ELEMENTARY<br>TEACHERS I (^)   |
| MTCH 2010   | MATHEMATICS FOR ELEMENTARY<br>TEACHERS II (^)  |
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)  |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE<br>CLASSROOMS (** ^)   |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY  |
| TED 2300    | HUMAN GROWTH AND LEARNING (^)  |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)  |
| SPED 1500   | INTRODUCTION TO SPECIAL<br>EDUCATION (** ^)  |
| SPED 3250   | SOCIAL, EMOTIONAL, AND BEHAVIORAL<br>NEEDS OF CHILDREN WITH AUTISM<br>AND DEVELOPMENTAL DISABILITIES |
| SPED 4010   | MENTAL HEALTH IN SCHOOLS: RISK<br>FACTORS AND INTERVENTIONS (^)                                      |
| SPED 2300   | SPECIAL EDUCATION LAW &<br>INDIVIDUAL EDUCATION PROGRAMS (^)   |
| SPED 4230   | LANGUAGE DEVELOPMENT AND<br>DISORDERS FOR TEACHERS   |
| SPED 4150   | READING AND WRITING INSTRUCTION<br>FOR STUDENTS WITH DISABILITIES (^)                                |
| SPED 4710   | INTERACTIONS AND COLLABORATION<br>(^)  |
| SPED 4810   | BEHAVIOR INTERVENTIONS AND<br>SUPPORTS (^)   |
| TED 3350    | TEACHING AND ASSESSING READING IN<br>ELEMENTARY SCHOOLS (^)  |
| TED 4330    | TEACHING OF MATHEMATICS:<br>ELEMENTARY (^)   |

|           |  |
|-----------|--|
| TED 4340  | TEACHING OF SCIENCE: ELEMENTARY (^)  |
| SPED 3020 | EFFECTIVE DATA COLLECTION FOR<br>INSTRUCTIONAL DECISIONS IN SPECIAL<br>EDUCATION (^) |

|           |   |
|-----------|---|
| SPED 4000 | PRACTICUM IN SPECIAL EDUCATION (^)            |
| SPED 4640 | METHODS AND MATERIALS IN SPECIAL<br>EDUCATION |

|           |   |
|-----------|---|
| SPED 4720 | CLINICAL PRACTICE IN SPECIAL<br>EDUCATION (^) |
|-----------|---|

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Secondary Education, Special Education, Bachelor of Science in Education Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**General Education Requirements - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills 15****Writing – 6 hrs.**

|           |  |
|-----------|--|
| ENGL 1150 | ENGLISH COMPOSITION I                        |
| ENGL 1160 | COLLEGE RESEARCH AND<br>INFORMATION LITERACY |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |  |
|--------------|--|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL<br>AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                      |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE<br>PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                               |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science - 3 hrs  
Humanities - 3 hrs  
Natural & Physical Science (must complete a lab) – 4 hrs.  
Arts - 3 hrs

**Individual and Social Responsibility 6**

Cultural Knowledge - 3 hrs  
Civic Knowledge and Engagement - 3 hrs

**MAJOR REQUIREMENTS - 78 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

|             |  |
|-------------|--|
| TED 2100    | EDUCATIONAL FOUNDATIONS (^)                        |
| TED 2200    | HUMAN RELATIONS FOR BIAS-FREE<br>CLASSROOMS (** ^) |
| or TED 2060 | EQUITY, LANGUAGE, AND CULTURAL LITERACY            |
| TED 2380    | DEVELOPMENT AND LEARNING IN<br>ADOLESCENCE (^)     |
| TED 2400    | PLANNING FOR EFFECTIVE TEACHING (^)                |

|           |  |
|-----------|--|
| MTCH 2000 | MATHEMATICS FOR ELEMENTARY TEACHERS I (^)  |
| MTCH 2020 | NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION                                |
| TED 4660  | YOUNG ADULT LITERATURE   |
| SPED 1500 | INTRODUCTION TO SPECIAL EDUCATION (** ^)   |
| SPED 3250 | SOCIAL, EMOTIONAL, AND BEHAVIORAL NEEDS OF CHILDREN WITH AUTISM AND DEVELOPMENTAL DISABILITIES |
| SPED 4010 | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (^)                                   |
| SPED 4150 | READING AND WRITING INSTRUCTION FOR STUDENTS WITH DISABILITIES (^)                             |
| SPED 2300 | SPECIAL EDUCATION LAW & INDIVIDUAL EDUCATION PROGRAMS (^)                                      |
| SPED 4230 | LANGUAGE DEVELOPMENT AND DISORDERS FOR TEACHERS (^)  |
| SPED 4650 | TRANSITION PLANNING (^)  |
| SPED 4710 | INTERACTIONS AND COLLABORATION (^)   |
| SPED 4810 | BEHAVIOR INTERVENTIONS AND SUPPORTS (^)  |
| TED 3550  | SECONDARY CLASSROOM MANAGEMENT (^)   |
| TED 3690  | LITERACY AND LEARNING (^)  |
| SPED 3020 | EFFECTIVE DATA COLLECTION FOR INSTRUCTIONAL DECISIONS IN SPECIAL EDUCATION (^)                 |
| SPED 4640 | METHODS AND MATERIALS IN SPECIAL EDUCATION (^)   |
| SPED 4000 | PRACTICUM IN SPECIAL EDUCATION (^)   |
| SPED 4720 | CLINICAL PRACTICE IN SPECIAL EDUCATION (^)   |

### ELECTIVES

Elective hours as required to reach a total of 120 hours

### Update to: Special Ed K-12 (remove ELSE and SESE)

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Education, Special Education Bachelor of Science Concentration

- Sign Language Interpreter (p. 599)

## Elementary Education, Special Education, Bachelor of Science in Education Four Year Plan

### Freshman

| Fall  |   | Credits   |
|---|---|-----------|
| ENGL 1150<br>or ENGL 1140   | ENGLISH COMPOSITION I<br>or COLLEGE WRITING AND RHETORIC I WITH SUPPORT | 3         |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                    | 3         |
| Quantitative Literacy   |   | 3         |
| MavEd Humanities  |   | 3         |
| MavEd Cultural Knowledge  |   | 3         |
| Attend Welcome Week events; other campus events   |   |           |
| Advising appointment for spring: Sept. - Oct.   |   |           |
| Note: ENGL 1140/ 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year |   |           |
| <b>Credits</b>  |   | <b>15</b> |

### Spring

|   |  |           |
|---|--|-----------|
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY  | 3         |
| SPED 1500   | INTRODUCTION TO SPECIAL EDUCATION  | 3         |
| TED 2100  | EDUCATIONAL FOUNDATIONS  | 3         |
| TED 2200<br>or TED 2060   | HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS<br>or EQUITY, LANGUAGE, AND CULTURAL LITERACY | 3         |
| MavEd Arts  |  | 3         |
| Apply to EPP by March 1 deadline  |  |           |
| Advising appointment for fall: February - March   |  |           |
| Join a student organization. Consider joining Student Council for Exceptional Children.                           |  |           |
| MUST establish 2.0+ NU GPA (by end of summer courses) in order to enroll in TED 2100 & TED 2200 for fall semester |  |           |
| <b>Credits</b>  |  | <b>15</b> |

### Summer

|                                       |  |          |
|---------------------------------------|--|----------|
| Natural and Physical Science with Lab |  | 4        |
| Civic Knowledge and Engagement        |  | 3        |
| <b>Credits</b>                        |  | <b>7</b> |

### Sophomore

| Fall   |   |           |
|--|---|-----------|
| TED 2300   | HUMAN GROWTH AND LEARNING                             | 3         |
| TED 2400   | PLANNING FOR EFFECTIVE TEACHING                       | 6         |
| SPED 2300  | SPECIAL EDUCATION LAW & INDIVIDUAL EDUCATION PROGRAMS | 3         |
| Data Literacy  |   | 3         |
| Advising appointment for spring: Sept. - Oct.                                      |   |           |
| Identify professional organization to get involved with. Begin resume development. |   |           |
| <b>Credits</b>   |   | <b>15</b> |

### Spring

|           |                                       |   |
|-----------|---------------------------------------|---|
| MTCH 2000 | MATHEMATICS FOR ELEMENTARY TEACHERS I | 3 |
| SPED 4810 | BEHAVIOR INTERVENTIONS AND SUPPORTS   | 3 |

|  |  |            |
|--|--|------------|
| SPED 4230  | LANGUAGE DEVELOPMENT AND DISORDERS FOR TEACHERS  | 3          |
| Elective to degree   |  | 3          |
| *May be taken any summer or semester before clinical practice              |  |            |
| Advising appointment for fall: February - March                            |  |            |
| <b>Credits</b>   |  | <b>12</b>  |
| <b>Junior</b>  |  |            |
| <b>Fall</b>  |  |            |
| MTCH 2010  | MATHEMATICS FOR ELEMENTARY TEACHERS II   | 3          |
| TED 3350   | TEACHING AND ASSESSING READING IN ELEMENTARY SCHOOLS   | 6          |
| TED 4330   | TEACHING OF MATHEMATICS: ELEMENTARY  | 3          |
| TED 4340   | TEACHING OF SCIENCE: ELEMENTARY  | 3          |
| Advising appointment for spring: Sept. - Oct.                              |  |            |
| MUST have 2.75 minimum NU GPA to progress in Educator Preparation Program. |  |            |
| <b>Credits</b>   |  | <b>15</b>  |
| <b>Spring</b>  |  |            |
| SPED 3020  | EFFECTIVE DATA COLLECTION FOR INSTRUCTIONAL DECISIONS IN SPECIAL EDUCATION                     | 3          |
| SPED 4640  | METHODS AND MATERIALS IN SPECIAL EDUCATION   | 3          |
| SPED 4000  | PRACTICUM IN SPECIAL EDUCATION   | 3          |
| SPED 4710  | INTERACTIONS AND COLLABORATION   | 3          |
| SPED 3250  | SOCIAL, EMOTIONAL, AND BEHAVIORAL NEEDS OF CHILDREN WITH AUTISM AND DEVELOPMENTAL DISABILITIES | 3          |
| Advising appointment for fall: February - March                            |  |            |
| <b>Credits</b>   |  | <b>15</b>  |
| <b>Senior</b>  |  |            |
| <b>Fall</b>  |  |            |
| SPED 4150  | READING AND WRITING INSTRUCTION FOR STUDENTS WITH DISABILITIES                                 | 3          |
| SPED 4010  | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS                                       | 3          |
| Elective for Degree  |  | 3          |
| Elective for Degree  |  | 3          |
| Elective for degree  |  | 2          |
| Take Praxis II- SPED #5355   |  |            |
| Advising appointment for spring: Sept. - Oct.                              |  |            |
| Apply for clinical practice at beginning of fall term.                     |  |            |
| <b>Credits</b>   |  | <b>14</b>  |
| <b>Spring</b>  |  |            |
| SPED 4720  | CLINICAL PRACTICE IN SPECIAL EDUCATION   | 12         |
| Apply for graduation   |  |            |
| <b>Credits</b>   |  | <b>12</b>  |
| <b>Total Credits</b>   |  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Secondary Education, Special Education, Bachelor of Science in Education Four-Year Plan

#### Freshman

| Fall            |  | Credits   |
|-----------------|--|-----------|
| ENGL 1150       | ENGLISH COMPOSITION I                              | 3         |
| QUANT LITERACY  |  | 3         |
| NATURAL SCIENCE |  | 4         |
| SPED 1500       | INTRODUCTION TO SPECIAL EDUCATION (SOCIAL SCIENCE) | 3         |
| <b>Credits</b>  |  | <b>13</b> |

#### Spring

|                           |  |           |
|---------------------------|--|-----------|
| ENGL 1160                 | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3         |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3         |
| ARTS                      |  | 3         |
| TED 2100                  |  | 3         |
| HUMANITIES                |  | 3         |
| <b>Credits</b>            |  | <b>15</b> |

#### Summer

|                     |  |          |
|---------------------|--|----------|
| CIVIC ENGAGEMENT    |  | 3        |
| ELECTIVE FOR DEGREE |  | 3        |
| <b>Credits</b>      |  | <b>6</b> |

#### Sophomore

##### Fall

|                    |  |   |
|--------------------|--|---|
| CULTURAL KNOWLEDGE |  | 3 |
| DATA LITERACY      |  | 3 |

|   |   |
|---|---|
| ELECTIVE FOR DEGREE   | 3 |
| TED 4660 YOUNG ADULT LITERATURE                                   | 3 |
| TED 2200 HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS                 | 3 |
| Apply for the educator preparation program before October 1, 2026 |   |

**Credits 15**

#### Spring

|  |   |
|--|---|
| TED 2380 DEVELOPMENT AND LEARNING IN ADOLESCENCE | 3 |
| TED 2400 PLANNING FOR EFFECTIVE TEACHING         | 6 |
| MTCH 2000 MATHEMATICS FOR ELEMENTARY TEACHERS I  | 3 |

2.75 NU GPA

**Credits 12**

#### Summer

|  |   |
|--|---|
| ELECTIVE FOR DEGREE                      | 3 |
| SPED 4710 INTERACTIONS AND COLLABORATION | 3 |

**Credits 6**

#### Junior

##### Fall

|   |   |
|---|---|
| TED 3550 SECONDARY CLASSROOM MANAGEMENT                                   | 3 |
| TED 3690 LITERACY AND LEARNING  | 3 |
| MTCH 2020 NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION | 3 |
| SPED 4810 BEHAVIOR INTERVENTIONS AND SUPPORTS                             | 3 |

**Credits 12**

#### Spring

|  |   |
|--|---|
| SPED 3020 EFFECTIVE DATA COLLECTION FOR INSTRUCTIONAL DECISIONS IN SPECIAL EDUCATION                     | 3 |
| SPED 4640 METHODS AND MATERIALS IN SPECIAL EDUCATION   | 3 |
| SPED 4000 PRACTICUM IN SPECIAL EDUCATION   | 3 |
| SPED 4230 LANGUAGE DEVELOPMENT AND DISORDERS FOR TEACHERS  | 3 |
| SPED 3250 SOCIAL, EMOTIONAL, AND BEHAVIORAL NEEDS OF CHILDREN WITH AUTISM AND DEVELOPMENTAL DISABILITIES | 3 |

**Credits 15**

#### Senior

##### Fall

|  |   |
|--|---|
| SPED 4650 TRANSITION PLANNING  | 3 |
| SPED 4010 MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS       | 3 |
| SPED 2300 SPECIAL EDUCATION LAW & INDIVIDUAL EDUCATION PROGRAMS          | 3 |
| SPED 4150 READING AND WRITING INSTRUCTION FOR STUDENTS WITH DISABILITIES | 3 |

ELECTIVE FOR DEGREE 2

|   |  |
|---|--|
| Apply to Clinical Practice<br>Praxis II #5355 (151) |  |
| Update Resume                                       |  |
| All course needs to be completed prior to SPED 4720 |  |

**Credits 14**

#### Spring

|  |    |
|--|----|
| SPED 4720 CLINICAL PRACTICE IN SPECIAL EDUCATION | 12 |
|--|----|

Apply for Degree/Graduation

Graduating with 120 credits

**Credits 12**

**Total Credits 120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on the 2025-2026 catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Sign Language Interpreter Concentration

## Elementary Education, Special Education, Bachelor of Science in Education - Sign Language Interpreter Requirements

| Code  | Title                 | Credits   |
|---|-----------------------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |                       |           |
| Minimum of "C-" required                                  |                       |           |
| <b>Fundamental Skills</b>                                 |                       | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |                       |           |
| ENGL 1150   | ENGLISH COMPOSITION I |           |

|   |   |
|---|---|
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |
| <b>Oral Communication – 3 hrs.</b>  |   |
| CMST 1110   | PUBLIC SPEAKING FUNDS   |
| or CMST 2120  | ARGUMENTATION AND DEBATE  |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING                                     |
| or MATH 1130  | QUANTITATIVE LITERACY   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS   |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT  |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |
| STAT 1530   | ELEMENTARY STATISTICS   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science - 3 hrs  |   |
| Humanities - 3 hrs  |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts - 3 hrs  |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge - 3 hrs  |   |
| Civic Knowledge and Engagement - 3 hrs  |   |
| <b>MAJOR REQUIREMENTS - 79 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following:</b>  | <b>79</b>   |
| PSYC 1010   | INTRODUCTION TO PSYCHOLOGY I (**)   |
| PSYC 2500   | LIFESPAN PSYCHOLOGY (^)   |
| PSYC 4590   | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)  |
| SPED 1110   | AMERICAN SIGN LANGUAGE I (^)  |
| SPED 1114   | AMERICAN SIGN LANGUAGE I LAB (^)  |
| SPED 1120   | AMERICAN SIGN LANGUAGE II (^ 2.75 GPA is required after completion of SPED 1120 & 1124)     |
| SPED 1124   | AMERICAN SIGN LANGUAGE II LAB (^ 2.75 GPA is required after completion of SPED 1120 & 1124) |
| SPED 2110   | AMERICAN SIGN LANGUAGE III (^ 2.5 GPA, C or higher in SPED 1120 & 1124)                     |
| SPED 2114   | AMERICAN SIGN LANGUAGE III LAB (^ 2.5 GPA, C or higher in SPED 1120 & 1124)                 |
| SPED 2120   | AMERICAN SIGN LANGUAGE IV (^ 2.5 GPA, C or higher in SPED 2110, 2114)                       |
| SPED 2124   | AMERICAN SIGN LANGUAGE IV LAB (^ 2.5 GPA, C or higher in SPED 2110, 2114)                   |
| SPED 3110   | AMERICAN SIGN LANGUAGE V (^ 2.75 GPA, B- or higher in SPED 2120, 2124)                      |
| SPED 3114   | AMERICAN SIGN LANGUAGE V LAB (^ 2.75 GPA, B- or higher in SPED 2120, 2124)                  |
| SPED 2200   | DEAF STUDIES (** ^)   |
| SPED 3100   | ENGLISH/ASL COMPARATIVE LINGUISTICS (^)   |

|           |  |
|-----------|--|
| SPED 2100 | PROFESSIONALISM & ETHICS OF INTERPRETING (^)                 |
| SPED 3120 | ACADEMIC INTERPRETING (^)                                    |
| SPED 3130 | COMMUNITY INTERPRETING (^)                                   |
| SPED 3140 | DISCOURSE ANALYSIS AND SOCIOLINGUISTICS FOR INTERPRETERS (^) |
| SPED 3150 | COGNITIVE PROCESSING IN ASL AND ENGLISH (^)                  |
| SPED 4180 | INTERPRETING IN SPECIALIZED SETTINGS (^)                     |
| SPED 4310 | VOICE-TO-SIGN (^)  |
| SPED 4320 | SIGN-TO-VOICE (^)  |
| SPED 4110 | SIGNED ENGLISH AND OTHER SYSTEMS (^)                         |
| SPED 4240 | TEACHING/INTERPRETING LANGUAGE TO DEAF/HARD OF HEARING (* ^) |
| SPED 4740 | EDUCATIONAL INTERPRETING PRACTICUM AND SEMINAR (^)           |
| SPED 4760 | COMMUNITY INTERPRETING PRACTICUM AND SEMINAR (^)             |

\*Bridges Oregon's National Sign Language Assessment required for many of the interpreting development courses. - Background check required prior to enrolling in SPED 4240.

Students in sign language interpreting program are expected to participate in classes and field experiences following the ethical and professional guidelines of the Registry of Interpreters for the Deaf and the National Association of Interpreters in Education.

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

### Grade requirements in Sign Language Interpreting program

Grade of C- or better required in General Education Courses and electives. Grades of C or better required in Related Coursework, ASL Development and Interpreting Development courses EXCEPT Grade of B- or higher required in SPED 2120/2124, SPED 3110/3114 SPED 3120, SPED 3130, SPED 4180, SPED 4240, SPED 4310, and SPED 4320.

### GPA requirements in Sign Language Interpreting Program

Students must maintain a 2.75 minimum GPA to remain in the major. Additionally, a 2.75 minimum GPA is required to meet prerequisites for most of the Interpreting Development courses.

## Elementary Education, Special Education, Bachelor of Science in Education - Sign Language Interpreter Four Year Plan

**Road Map designed to start in odd year (2025, 2027 etc.). Road Map will be different if starting in even year (2026, 2028, etc.)**

| Freshman  |                       | Credits |
|-----------|-----------------------|---------|
| Fall      |                       |         |
| Odd       |                       |         |
| ENGL 1150 | ENGLISH COMPOSITION I | 3       |
| SPED 2200 | DEAF STUDIES          | 3       |

|  |  |   |
|--|--|---|
| SPED 2100  | PROFESSIONALISM & ETHICS OF INTERPRETING | 3 |
| SPED 1110  | AMERICAN SIGN LANGUAGE I                 | 3 |
| SPED 1114  | AMERICAN SIGN LANGUAGE I LAB             | 1 |
| Quantitative Literacy                                  |  | 3 |
| Attend Welcome Week events; other campus events        |  |   |
| Advising appointment for spring: Sept. - Oct.          |  |   |
| Join a student group, such as Allies for Sign Language |  |   |

**Credits 16**

### Spring

|   |   |   |
|---|---|---|
| Even  |   |   |
| ENGL 1160                                       | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| CMST 1110                                       | PUBLIC SPEAKING FUNDS                     | 3 |
| SPED 1120                                       | AMERICAN SIGN LANGUAGE II                 | 3 |
| SPED 1124                                       | AMERICAN SIGN LANGUAGE II LAB             | 1 |
| PSYC 1010                                       | INTRODUCTION TO PSYCHOLOGY I              | 3 |
| Humanities                                      |   | 3 |
| Advising appointment for fall: February - March |   |   |

**Credits 16**

### Sophomore

#### Fall

|   |   |   |
|---|---|---|
| Even  |   |   |
| SPED 2110   | AMERICAN SIGN LANGUAGE III              | 3 |
| SPED 2114   | AMERICAN SIGN LANGUAGE III LAB          | 1 |
| SPED 3150   | COGNITIVE PROCESSING IN ASL AND ENGLISH | 3 |
| Arts  |   | 3 |
| Social Science  |   | 3 |
| Natural/Physical Science with Lab   |   | 4 |
| Advising appointment for spring: Sept. - Oct.                                     |   |   |
| Identify professional organization to get involved with. Begin resume development |   |   |

**Credits 17**

### Spring

|              |                                     |   |
|--------------|-------------------------------------|---|
| Odd          |                                     |   |
| SPED 2120    | AMERICAN SIGN LANGUAGE IV           | 3 |
| SPED 2124    | AMERICAN SIGN LANGUAGE IV LAB       | 1 |
| PSYC 2500    | LIFESPAN PSYCHOLOGY                 | 3 |
| ENGL 2400    | ADVANCED COMPOSITION                | 3 |
| or ENGL 3050 | or WRITING FOR THE WORKPLACE        |   |
| or WRWS 1500 | or INTRODUCTION TO CREATIVE WRITING |   |
| Elective     |                                     | 3 |

**Credits 13**

### Summer

|   |                                  |   |
|---|----------------------------------|---|
| Odd   |                                  |   |
| SPED 3110                                       | AMERICAN SIGN LANGUAGE V         | 3 |
| SPED 3114                                       | AMERICAN SIGN LANGUAGE V LAB     | 1 |
| SPED 4110                                       | SIGNED ENGLISH AND OTHER SYSTEMS | 3 |
| Advising appointment for fall: February - March |                                  |   |

**Credits 7**

### Junior

#### Fall

|           |                                      |   |
|-----------|--------------------------------------|---|
| Odd       |                                      |   |
| SPED 4180 | INTERPRETING IN SPECIALIZED SETTINGS | 3 |
| SPED 4310 | VOICE-TO-SIGN                        | 3 |

|   |   |
|---|---|
| Cultural Knowledge                            | 3 |
| Civic Knowledge and Engagement                | 3 |
| Advising appointment for spring: Sept. - Oct. |   |

**Credits 12**

### Spring

|   |  |   |
|---|--|---|
| Even  |  |   |
| SPED 3130                                       | COMMUNITY INTERPRETING                                   | 3 |
| SPED 4240                                       | TEACHING/INTERPRETING LANGUAGE TO DEAF/HARD OF HEARING   | 5 |
| PSYC 4590                                       | PSYCHOLOGY OF EXCEPTIONAL CHILDREN                       | 3 |
| SPED 3140                                       | DISCOURSE ANALYSIS AND SOCIOLINGUISTICS FOR INTERPRETERS | 3 |
| Elective  |  | 1 |
| Advising appointment for fall: February - March |  |   |

**Credits 15**

### Senior

#### Fall

|   |  |   |
|---|--|---|
| SPED 3120                                     | ACADEMIC INTERPRETING                          | 3 |
| SPED 4740                                     | EDUCATIONAL INTERPRETING PRACTICUM AND SEMINAR | 6 |
| Elective                                      |  | 3 |
| Advising appointment for spring: Sept. - Oct. |  |   |

**Credits 12**

### Spring

|                      |  |   |
|----------------------|--|---|
| Odd                  |  |   |
| SPED 3100            | ENGLISH/ASL COMPARATIVE LINGUISTICS          | 3 |
| SPED 4320            | SIGN-TO-VOICE                                | 3 |
| SPED 4760            | COMMUNITY INTERPRETING PRACTICUM AND SEMINAR | 6 |
| Apply for graduation |  |   |

**Credits 12**

**Total Credits 120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>  
**\*\*Transfer credit or placement exam scores may change suggested plan of study**



**GPA Requirements:**

2.5 minimum GPA to remain in College of Education, Health and Human Sciences, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

**Graduation Requirements:** 2.75 minimum NU GPA

## Education - Communication Disorders

The undergraduate degree in communication disorders provides the fundamental, prerequisite knowledge necessary for pursuing a graduate degree. Entry for practice in the field of communication disorders is a clinical doctorate (Au.D.) for audiology and a master's degree (M.S. or M.A.) in speech-language pathology.

## Other Information

Majors in communication disorders must maintain an overall cumulative GPA of 3.0 or better. No courses taken on a Credit/No Credit basis will be accepted for the purpose of fulfilling any of the required content, professional, or major speech-language pathology coursework. A minimum grade of "C" must be earned in all professional courses for the Bachelors in Communication Disorders program.## All grades of incomplete and any new grades below "C" in these specific requirements must be removed.## Candidates are responsible for contacting their academic advisor.

The undergraduate degree in Communication Disorders is a pre-professional degree which does not lead to a certificate or license. Completion of the UNO undergraduate communication disorders program does not guarantee admission to the UNO Speech-Language Pathology graduate program.

## Communication Disorders

For students pursuing the Communication Disorders major, no application is required.## To continue with Communication Disorders (CDIS) courses, students must maintain a 3.0 NU GPA or higher.

### Early Admission to the Speech-Language Pathology Graduate Program via FastTrack

CDIS undergraduates are able to apply for early admission to the UNO Speech-Language Pathology graduate program.## Interested candidates must meet the application requirements below:

Apply March of Junior Year

1. Application (minimum of 3.5 undergraduate GPA to apply)
  - Resume
  - Statement of Purpose: Please include the following in your response: Your aptitude and motivation for graduate study in speech-language pathology; your preparation for this field of study; your academic plans or research interests; and why would UNO be a good intellectual fit for you?
  - Transcripts (unofficial)

If selected, then applicants become eligible to enroll in a Fast Track program. To maintain eligibility, they must meet or exceed minimum requirements throughout their senior year. Additionally, they must complete the speech-language pathology (SLP) graduate application to be considered for full acceptance into the Speech-Language Pathology graduate program at UNO.

## Fast Track Program

The Department of Special Education and Communication Disorders has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 6 graduate hours toward the completion of their undergraduate program as well as the graduate program.

## Program Specifics:

- This program is available for undergraduate students pursuing a Bachelor of Science in Education in communication disorders desiring to pursue a MS in Speech-Language Pathology (SLP) at UNO.
- Students must submit the departmental application to be considered for the Fast Track program.
  - Complete the department application in March of the junior year (no less than 60 undergraduate hours). Application requirements are:
    - Successfully completed CDIS#242Q CDIS#255Q CDIS#345QCDIS#346Q CDIS#3370
    - 3.5 undergraduate GPA
    - Resume
    - Statement of Purpose (Please include the following in your response: Your aptitude and motivation for graduate study in speech-language pathology; your preparation for this field of study; your academic plans or research interests; and why would UNO be a good intellectual fit for you?)
- If the departmental application is approved, students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses (for a total of six [6] graduate credit hours).
  - During the fall semester of the senior year, students will register for CDIS 8310 Adv Audiology (1 credit hour) and CDIS#8560AAC (2 credit hours)
  - During the spring semester of the senior year, students will register for CDIS 8420- Voice Disorders (3 credit hours)
- A minimum cumulative GPA of 3.0 is required for the graduate course work to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all the rights and privileges granted undergraduate status including financial aid.
- Formal application to the graduate program is required by January 15 of the student's senior year. The application fee will be waived and the applicant must contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does not guarantee admission to the graduate program.
  - Fast Track students must successfully complete their undergraduate BS degree with a minimum cumulative GPA of 3.5 and all graduate courses with a minimum of 3.0 or better, be in good standing, and complete formal graduate admission application to be considered for full admission into the speech-language pathology graduate program.
  - The official admit term must be after the completion term of the undergraduate degree

## Fast Track Courses:

Fall of senior year:

- CDIS 8310 (1.0) Adv Audiology
- CDIS 8560 (2.0) Augmentative and Alternative Communication

Spring of senior year:

- CDIS 8420 (3.0) Voice Disorders

## Contact

Office of Academic Advising and Field Experiences, Certification  
204 Roskens Hall  
402.554.2717

unocoeadvising@unomaha.edu

Dr. Shari DeVeney, Graduate Program Chair (GPC)  
512 Roskens Hall  
402.554.2993

sdeveney@unomaha.edu (sdeveney@unomaha.edu)

Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/>)

# Communication Disorders, Bachelor of Science in Education Requirements

## GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

### Fundamental Skills 15

#### Writing – 6 hrs.

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

#### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

#### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

#### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### Breadth of Knowledge 13

Social Science - 3 hrs

Humanities - 3 hrs

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts - 3 hrs

### Individual and Social Responsibility 6

Cultural Knowledge - 3 hrs

Civic Knowledge and Engagement - 3 hrs

## MAJOR REQUIREMENTS - 83 Hours Required

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

## All of the following: 83

|                       |   |
|-----------------------|---|
| BIOL 1020             | PRINCIPLES OF BIOLOGY (**)  |
| or BIOL 1330          | ENVIRONMENTAL BIOLOGY   |
| or BIOL 1450          | BIOLOGY I   |
| CHEM 1140 & CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^) |
| or PHYS 1050          | INTRODUCTION TO PHYSICS   |
| or PHYS 1110          | PHYSICS FOR LIFE SCIENCE I  |
| PSYC 1010             | INTRODUCTION TO PSYCHOLOGY I (**)   |
| PSYC 1020             | INTRODUCTION TO PSYCHOLOGY II (^)   |
| PSYC 3130             | STATISTICS FOR THE BEHAVIORAL SCIENCES (^)  |
| or STAT 3000          | STATISTICAL METHODS I   |
| CDIS 1400             | INTRODUCTION TO COMMUNICATION DISORDERS (**)  |
| CDIS 2380             | ANATOMY AND PHYSIOLOGY OF THE SPEECH MECHANISM (^)  |
| CDIS 2420             | EARLY LANGUAGE DEVELOPMENT IN CHILDREN (^)  |
| CDIS 2550             | CULTURAL COMPETENCE IN SERVICE DELIVERY (^)   |
| SPED 1500             | INTRODUCTION TO SPECIAL EDUCATION (** ^)  |
| TED 2100              | EDUCATIONAL FOUNDATIONS ( ^)  |
| PSYC 2500             | LIFESPAN PSYCHOLOGY (^)   |
| CDIS 3330             | AURAL REHABILITATION (^)  |
| CDIS 3200             | WRITING FOR THE PROFESSION OF SPEECH-LANGUAGE PATHOLOGY                                   |
| CDIS 3370             | BASIC AUDIOLOGY (^)   |
| CDIS 3390             | HEARING SCIENCE (^)   |
| CDIS 3430             | ARTICULATION AND PHONOLOGICAL DISORDERS (^)   |
| CDIS 3450             | PHONETICS (^)   |
| CDIS 3460             | SCHOOL AGE LANGUAGE DEVELOPMENT (^)   |
| CDIS 4470             | NEUROPHYSIOLOGY OF SPEECH AND LANGUAGE (^)  |
| CDIS 4480             | RESEARCH METHODS IN COMMUNICATION DISORDERS (^)   |
| CDIS 4490             | INTRODUCTION TO PROFESSIONAL PRACTICES (^)  |
| CDIS 4500             | PRINCIPLES OF ASSESSMENT AND INTERVENTION (^)   |
| CDIS 4750             | INTRODUCTION TO CHILDHOOD LANGUAGE DISORDERS (^)  |
| GERO 2000             | INTRODUCTION TO GERONTOLOGY (**)  |
| HEKI 2000             | MEDICAL TERMINOLOGY   |
| ENGL 3610             | INTRODUCTION TO LINGUISTICS   |
| HEKI 3090             | APPLIED NUTRITION   |

## ELECTIVES

Elective hours as required to reach a total of 120 hours

# Communication Disorders, Bachelor of Science in Education Four Year Plan

## Freshman

| Fall  |   | Credits      |
|---|---|--------------|
| ENGL 1150   | ENGLISH COMPOSITION I   | 3            |
| CMST 1110   | PUBLIC SPEAKING FUNDS   | 3            |
| MATH 1300<br>or MATH 1120   | COLLEGE ALGEBRA WITH SUPPORT<br>or INTRODUCTION TO<br>MATHEMATICAL AND<br>COMPUTATIONAL THINKING    | 4            |
| CDIS 1400   | INTRODUCTION TO COMMUNICATION<br>DISORDERS  | 3            |
| Arts  |   | 3            |
| Attend welcome events; other campus events  |   |              |
| Advising appointment for spring: Sept. - Oct.   |   |              |
| Join student group for major: NSSLHA  |   |              |
| Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and<br>approved math (Quantitative Literacy) course should be taken<br>and passed in the first academic year |   |              |
| <b>Credits</b>  |   | <b>16</b>    |
| Spring  |   |              |
| ENGL 1160   | COLLEGE RESEARCH AND<br>INFORMATION LITERACY  | 3            |
| PSYC 1010   | INTRODUCTION TO PSYCHOLOGY I  | 3            |
| SPED 1500   | INTRODUCTION TO SPECIAL<br>EDUCATION  | 3            |
| BIOL 1020<br>or BIOL 1330<br>or BIOL 1450   | PRINCIPLES OF BIOLOGY<br>or ENVIRONMENTAL BIOLOGY<br>or BIOLOGY I                                   | 3-4          |
| Humanities  |   | 3            |
| Advising appointment for fall: February – March   |   |              |
| By end of freshman year establish NU GPA of 3.0 or higher.<br>Graduate programs look for a GPA of a 3.7+  |   |              |
| <b>Credits</b>  |   | <b>15-16</b> |
| Summer  |   |              |
| Cultural Knowledge  |   | 3            |
| Civic Knowledge and Engagement  |   | 3            |
| <b>Credits</b>  |   | <b>6</b>     |
| Sophomore   |   |              |
| Fall  |   |              |
| CDIS 2420   | EARLY LANGUAGE DEVELOPMENT IN<br>CHILDREN   | 3            |
| CHEM 1140<br>& CHEM 1144<br>or PHYS 1050<br>or PHYS 1110  | FUNDAMENTALS OF COLLEGE<br>CHEMISTRY<br>or INTRODUCTION TO PHYSICS<br>or PHYSICS FOR LIFE SCIENCE I | 4-5          |
| ENGL 3610   | INTRODUCTION TO LINGUISTICS   | 3            |
| PSYC 1020   | INTRODUCTION TO PSYCHOLOGY II   | 3            |
| Advising appointment for spring: Sept. - Oct.   |   |              |
| Gain employment or volunteer work with populations that would<br>use SLP services – the elderly, children, youth, individuals with<br>disabilities, etc.    |   |              |
| Must have NU GPA of 3.0 by end of first semester of sophomore<br>year.  |   |              |
| <b>Credits</b>  |   | <b>13-14</b> |

## Spring

| CDIS 2550   | CULTURAL COMPETENCE IN SERVICE<br>DELIVERY                            | 3         |
|---|---|-----------|
| CDIS 2380   | ANATOMY AND PHYSIOLOGY OF THE<br>SPEECH MECHANISM                     | 3         |
| CDIS 3460   | SCHOOL AGE LANGUAGE<br>DEVELOPMENT                                    | 3         |
| PSYC 3130<br>or STAT 3000   | STATISTICS FOR THE BEHAVIORAL<br>SCIENCES<br>or STATISTICAL METHODS I | 3         |
| HEKI 2000   | MEDICAL TERMINOLOGY   | 1         |
| Advising appointment for fall: February – March   |   |           |
| Academic goal: Establish NU GPA of 3.5 or higher.   |   |           |
| <b>Credits</b>  |   | <b>13</b> |
| Summer  |   |           |
| PSYC 2500   | LIFESPAN PSYCHOLOGY   | 3         |
| HEKI 3090   | APPLIED NUTRITION   | 3         |
| <b>Credits</b>  |   | <b>6</b>  |
| Junior  |   |           |
| Fall  |   |           |
| CDIS 3390   | HEARING SCIENCE   | 3         |
| CDIS 3450   | PHONETICS   | 3         |
| CDIS 3370   | BASIC AUDIOLOGY   | 3         |
| TED 2100  | EDUCATIONAL FOUNDATIONS   | 3         |
| Data Literacy   |   | 3         |
| Advising appointment for spring: Sept. - Oct.   |   |           |
| Visit Academic & Career Development Center for resume/cover<br>letter building and editing Start thinking about graduate school<br>options.     |   |           |
| <b>Credits</b>  |   | <b>15</b> |
| Spring  |   |           |
| CDIS 3200   | WRITING FOR THE PROFESSION OF<br>SPEECH-LANGUAGE PATHOLOGY            | 3         |
| CDIS 3430   | ARTICULATION AND PHONOLOGICAL<br>DISORDERS                            | 3         |
| CDIS 3330   | AURAL REHABILITATION  | 3         |
| GERO 2000   | INTRODUCTION TO GERONTOLOGY   | 3         |
| Advising appointment for fall: February – March   |   |           |
| Prepare to apply to graduate schools (apply to 2+ schools to<br>increase chance of acceptance)  |   |           |
| -Take GRE exam (Not required by UNO) – if required by<br>graduate program -Write personal statement   |   |           |
| Update resume -Get application process organized -Letters of<br>recommendation - ASHA EdFind  |   |           |
| <b>Credits</b>  |   | <b>12</b> |
| Senior  |   |           |
| Fall  |   |           |
| CDIS 4470   | NEUROPHYSIOLOGY OF SPEECH AND<br>LANGUAGE                             | 3         |
| CDIS 4480   | RESEARCH METHODS IN<br>COMMUNICATION DISORDERS                        | 3         |
| CDIS 4490   | INTRODUCTION TO PROFESSIONAL<br>PRACTICES                             | 3         |
| Elective to reach 120 or other degree required course   |   | 3         |
| Advising appointment for spring: Sept. - Oct.   |   |           |
| Prepare to submit graduate school applications by December or<br>prior to university deadline. Ask for letters of recommendation<br>in October. |   |           |
| <b>Credits</b>  |   | <b>12</b> |

**Spring**

|  |  |                |
|--|--|----------------|
| CDIS 4500  | PRINCIPLES OF ASSESSMENT AND INTERVENTION    | 3              |
| CDIS 4750  | INTRODUCTION TO CHILDHOOD LANGUAGE DISORDERS | 3              |
| Elective to reach 120 or other degree required course  |  | 3              |
| Elective   |  | 3              |
| Prepare to graduate and start a graduate program in the fall; apply for graduation by deadline |  |                |
| <b>Credits</b>   |  | <b>12</b>      |
| <b>Total Credits</b>   |  | <b>120-122</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:****University Degree Requirements:**

The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on 2025-2026 University of Nebraska at Omaha undergraduate catalog.

**Placement Exams:**

For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:** Cumulative and major 3.0 NU GPA after program admission, but those admitted to a graduate program consistently earn a GPA of at least a 3.5-3.7 or higher.

Grade of C or better is required in CDIS coursework, required related content in TED, SPED, PSYC, STAT, and required related courses on approved list. Grade of C- or better required in BIOL 1020, BIOL 1330, CHEM 1140 & 1144, PHYS 1050, or PHYS 1110.

**American Sign Language (ASL) Minor****American Sign Language (ASL) Minor Requirements**

2.75 GPA required for completion of minor

| Code                     | Title   | Credits |
|--------------------------|---|---------|
| <b>18 Hours Required</b> |   |         |
| SPED 2200                | DEAF STUDIES  |         |
| SPED 2110                | AMERICAN SIGN LANGUAGE III (2.5 GPA, C or higher in SPED 1120 & 1124)     |         |
| SPED 2114                | AMERICAN SIGN LANGUAGE III LAB (2.5 GPA, C or higher in SPED 1120 & 1124) |         |
| SPED 2120                | AMERICAN SIGN LANGUAGE IV (2.5 GPA, C or higher in SPED 2110, 2114)       |         |

|           |   |
|-----------|---|
| SPED 2124 | AMERICAN SIGN LANGUAGE IV LAB (2.5 GPA, C or higher in SPED 2110, 2114) |
| SPED 3110 | AMERICAN SIGN LANGUAGE V (2.5 GPA, C or higher in SPED 2120, 2124)      |
| SPED 3114 | AMERICAN SIGN LANGUAGE V LAB (2.5 GPA, C or higher in SPED 2120, 2124)  |
| SPED 3100 | ENGLISH/ASL COMPARATIVE LINGUISTICS                                     |

**College of Engineering Description****Administration**

Lance C. Pèrez, Ph.D., Dean

Website: <https://engineering.unl.edu/>

**Administrative Structure**

The College of Engineering is located on three campuses (Lincoln City Campus, Lincoln East Campus, and Scott Campus in Omaha) and has two Dean's Offices (641 Kiewit Hall in Lincoln and 301 Peter Kiewit Institute in Omaha). The College is subdivided into units, each under the leadership of a chairperson, department head, or director.

**Role and Mission**

The College of Engineering improves the lives of every Nebraskan. We pursue this vision through our shared values of Community, Impact, and Inclusion. These values are embedded in and strengthened by the academic ideals of the university, the ethos of Nebraskans, and the principles of the entire Nebraska Engineering Community.

Our mission is to drive economic development in the state and region while solving problems of global importance. The College of Engineering will fulfill this mission through our deep commitment to engineering, computing, and construction education, research, and engagement. As the only engineering college in Nebraska, we have a particularly strong mandate to the state to ensure our resources and opportunities are accessible to all Nebraskans.

An essential and distinctive pillar of our mission is the notion of the Complete Engineer®. At its most fundamental, the Complete Engineer® is a commitment by the college to the development of every student in technical, professional, and personal dimensions. It enables everyone to become the best version of themselves in support of the fulfillment of the college's mission and reinforces the values of Community, Impact, and Inclusion.

**College Admission****College Entrance Requirements**

Students must meet both the University and College of Engineering entrance requirements. The following includes both the University and College of Engineering entrance requirements.

Students must have high school credit for (one unit is equal to one high school year):

1. Mathematics – 4 units: 2 of algebra, 1 of geometry, and 1 of precalculus and trigonometry
2. English – 4 units
3. Natural sciences – 3 units that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management or computer science)
4. Foreign language – 2 units of a single foreign language
5. Social studies – 3 units
6. Students having a composite ACT score of 28 or greater (or equivalent SAT score) will be admitted to the College of Engineering even if

they lack any one of the following: trigonometry, chemistry, or physics. Students without test scores who are missing a full unit of trigonometry/pre-calculus/calculus or chemistry or physics will be evaluated through College Review.

A total of 16 units is required for admission.

Engineering requires that student performance meet one of the following standards: composite ACT of 24, SAT of 1180, ACT Math subscore of 24, SAT Math subscore of 580, or a 3.5 cumulative GPA.

Any domestic first-year student who does not gain admission to Engineering but does gain admission to the University of Nebraska-Lincoln (UNL) will be reviewed through College Review. College Review is conducted through the College Review Committee which considers factors beyond standardized testing. Any first-year student who is not admitted through college review is placed in Pre-Engineering (PENG) within the college and are advised by the Engineering Student Services.

Students who lack entrance units may complete precollege training by Independent Study through the University of Nebraska-Lincoln Office of On-line and Distance Education, in summer courses, or as a part of their first or second semester course loads while in the Academic and Career Development Center at the University of Nebraska Omaha.

Students should consult their advisor, their department chair, or Engineering Student Services (ESS) if they have questions on current policies.

## Other Admission Requirements

Students who transfer to the University of Nebraska Omaha from other accredited colleges or universities and wish to be admitted to the College of Engineering (COE) must meet COE first-year student entrance requirements, have a minimum cumulative GPA of 2.5, and be calculus-ready. Students not meeting either of these requirements must enroll in another University college until they meet COE admission requirements. Students transferring from UNO, UNL, or UNK to the College of Engineering must be in good academic standing with their institution.

The COE accepts courses for transfer for which a C or better grade was received. Although the University of Nebraska-Lincoln accepts D grades from the University of Nebraska Kearney and the University of Nebraska Omaha, not all majors in the COE accept such low grades. Students must conform to the requirements of their intended major and, in any case, are strongly encouraged to repeat courses with a grade of C- or less.

Students who were previously admitted to COE and are returning to the College of Engineering must demonstrate a cumulative GPA of 2.5 to be readmitted to COE.

# Classification and Professional Admission

## Student Classification

**Sophomore Standing.**For admission to sophomore standing, a student must have completed all the College entrance requirements except foreign language, earned a minimum of 27 semester hours of credit, and attained a total grade point average of at least 2.0.

**Junior Standing.**A student has junior standing after meeting the requirements for sophomore standing and completing 53 semester hours of credit.

**Senior Standing.**A student has senior standing after meeting the requirements for junior standing and completing 89 semester hours of credit.

## Professional Admission

Professional admission to a student's degree program is a requirement for graduation from that program. The progression to Professional Admission is as follows.

**Explore Center Pre-Engineering Students.**These are students who aspire to enter the College of Engineering but who are not immediately admitted due to not meeting one or more admission criteria such as required high school mathematics, chemistry or physics course(s), ACT, or other qualifications. These students are admitted to the Explore Center and receive advising services from the Explore Center. These students may enroll in any engineering courses provided they meet the prerequisites on a space-available basis. Once the student has earned a 2.5 cumulative GPA in at least 12 graded credit hours and has removed all entrance deficiencies, they will be admitted to the College of Engineering (COE).

After being admitted to the COE, students wishing to pursue degree programs in the College of Engineering will be classified as described below.

**Pre-Professionally Admitted COE Students.**These are students who have been admitted to the College of Engineering and are in the process of establishing their academic credentials and confirming their choice of major. Transfer students from other colleges and universities or from the Explore Center will be classified as pre-professionally admitted for at least one semester (12 credits) while they confirm their career path and establish their academic credentials (see Professional Admission). Most students are in pre-professionally admitted status for one to four semesters. Pre-professionally admitted students may enroll in upper-level engineering courses provided they meet the prerequisites, space is available, and no departmental restrictions exist.

**Professionally Admitted COE Students.**These students may register for engineering courses where they meet all prerequisites or have permission. A professionally admitted student who wishes to transfer from one COE major to another must re-apply for Professional Admission to gain professionally admitted status in the new major, subject to the admission criteria of the new major.

Students who are enrolled in the Explore Center or in other colleges may enroll in any engineering courses for which they have met the prerequisites. Those with greater than a 2.5 cumulative GPA may register for upper-level engineering courses, but only on a space-available basis in courses where they meet all prerequisites and have permission from the department. These students may retake an engineering course for C-, D, and F removal, on a space-available basis and with permission.

Professional Admission must be earned by a student to move from pre-professionally admitted status to professionally admitted status within the College of Engineering. A review of the student's academic history is completed by the department of the student's intended major after the student has completed at least 43 credit hours within his or her intended degree program. Additional review criteria are based on the individual degree program and can be found under that major's information in the undergraduate catalog.

A student may be reviewed up to two times for Professional Admission in a single major. If the student is rejected for Professional Admission on the second review, the student will not be allowed to continue in that major. The student may choose to pursue a new College of Engineering major but will be subject to the review criteria of the new major. If the student is rejected for Professional Admission by the new major, the student will be dismissed from the College of Engineering. Further reviews for Professional Admission



will not be allowed and the student will no longer be eligible to enroll in College of Engineering courses.

## Catalog to Use

Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted at the University of Nebraska–Lincoln. In consultation with advisors, a student may choose to follow a subsequent catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at Nebraska in the College of Engineering. Students must complete all degree requirements from a single catalog year. The catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Students who have transferred from a community college may be eligible to fulfill the requirements as stated in the catalog for an academic year in which they were enrolled at the community college prior to attending the University of Nebraska–Lincoln. This decision should be made in consultation with the student's College of Engineering academic advising team (e.g., ESS professional advisor and the chief faculty advisor for the student's declared degree program). The chief faculty advisor has the final authority for this decision. Eligibility is based on a) enrollment in a community college during the catalog year the student wishes to utilize, b) maintaining continuous enrollment of at least 12 credit hours per semester at the previous institution for at least 2 semesters, and c) continuous enrollment at the University of Nebraska–Lincoln within 1 calendar year from the student's last term at the previous institution. # Students must complete all degree requirements from a single catalog year and within the timeframe allowable for that catalog year.

## Academic Advising

Advisors assigned to students are either part of the Engineering Student Services located at 107 Peter Kiewit Institute (PKI) or are in the student's major department.

## Student Responsibility

Students are responsible for fulfilling all the requirements of the curriculum in which they are enrolled. Students are also responsible for initiating advising contacts and preparing for advising sessions. The mentoring relationship between academic advisors and students is confidential and is strengthened by advisors' ability to listen with empathy.

Students are expected to take responsibility for successful university experiences and effective advising sessions by:

1. Participating in New Student Orientation and priority registration programs.
2. Scheduling appointments with advisors well in advance of priority registration and at other times as needed.
3. Identifying class choices from the requirements of the selected program.
4. Identifying questions to address in advising sessions.
5. Informing advisors of any special needs, deficiencies, or barriers that might affect academic success.
6. Following academic policies and procedures and meeting academic calendar deadlines (e.g., registration, fee payment, degree audit, filing for degree, etc.).
7. Knowing and completing degree or program requirements.
8. Monitoring their progress toward meeting degree requirements by maintaining a copy of their academic records and seeking assistance to resolve any errors or questions.

9. Acting on recommendations to seek assistance from the various student support services provided by the University and College.

## Academic Load

College of Engineering (COE) students may register for up to 18 credit hours per semester. Permission must be obtained from the student's advisor to exceed the credit hour maximum and must be filed with an Override Authorization form at the time of registration. Students must be enrolled for 12 credit hours at the University of Nebraska Omaha to be considered full-time students. For recognition on the Dean's List, these 12 University of Nebraska Omaha credit hours must be for a letter grade.

## Application for Graduation

Students are expected to develop a clear understanding of degree requirements and to plan their course of study with the academic advisor. Students requiring clarification of outstanding degree requirements should visit their academic advisor promptly.

Students should access their Degree Audit via MavLink at least once each term to review degree requirements and progress toward graduation. It is the student's responsibility to make sure their Degree Audit accurately reflects their current College and program of study.

Students who believe their Degree Audit has errors or omissions should visit their academic advisor promptly. It is important that these matters be resolved as soon as practicable to avoid a delay in graduation.

Each student who expects to receive a diploma must file an application of candidacy for the diploma online on MavLINK. Announcements about deadline dates are posted on the University of Nebraska Omaha's (UNO) Academic Calendar webpage, Maverick Weekly email to students, and by an email sent by the UNO Registrar's office.

It is the responsibility of the students to inform the Registrar's Office of their graduation plans including their mailing address and the manner in which they are completing their requirements.

Failure to meet these stipulations may necessitate the postponement of graduation until the next semester.

Scott Campus COE students wishing to attend Commencement on the UNL campus may do so by completing the online form found at <https://engineering.unl.edu/undergraduate-programs/alternate-campus-commencement-ceremony-application/>.

## Academic Programs & Policies Engineering

To meet the need for innovative engineers, the College's programs offer a broad education in the physical sciences, social sciences, mathematics, information sciences, and humanities. This education is complemented by a study of engineering methods of modeling, analysis, synthesis, and design in students' areas of specialization. In addition to preparing students for careers in engineering, the College's bachelor's degree programs provide excellent preparation for graduate study in those fields.

## Construction

This profession is allied with architecture, engineering, and business. Construction managers coordinate people, machines, and materials to produce (within the constraints of budget and time) buildings, highways, bridges, dams, and other structures essential to modern society. The College's construction management program provides a solid technical background, develops business knowledge, and considers ethical issues of the profession.



## Computing

Computer scientists are collaborators, working within teams from other areas of expertise to determine and resolve needs and issues. Students will learn to use and build the tools to make the technology currently being used - and will in the future - work better. Computer science majors learn programming languages and theory that will prepare them for any computing career path.

## Undergraduate Degree Programs

**Engineering.** The College offers Bachelor of Science degree programs in each of the following engineering fields: agricultural engineering (Lincoln only), architectural engineering (Omaha only), biological systems engineering (Lincoln only), chemical engineering (Lincoln only), civil engineering, computer engineering, construction engineering, electrical engineering, environmental engineering, mechanical engineering (Lincoln only), and software engineering (Lincoln only). Students with interests in specialty fields such as aerospace, or biomedical engineering should seek advice in the Engineering Student Services Center or with their faculty advisor

**Computer Science.** Lincoln only. The College offers the Bachelor of Science degree program and a minor in computer science.

**Construction Management.** The College offers the Bachelor of Science degree program and a minor in construction management.

**Data Science.** Lincoln only. The College offers the Bachelor of Science degree with a major in Data Science.

**Dual Degrees.** Students can major in two departments in the college by consulting their advisors (one from each department) and completing all the requirements for the departmental majors.

## Accreditation

- The Agricultural Engineering (BSAE) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Agricultural and Similarly Named Engineering Programs.
- The Architectural Engineering (MAE) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Architectural and Similarly Named Engineering Programs.
- The Biological Systems Engineering (BSBS) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Biological and Similarly Named Engineering Programs.
- The Chemical Engineering (BSCH) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Chemical, Biochemical, Biomolecular and Similarly Named Engineering Programs.
- The Civil Engineering (BSCE) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Civil and Similarly Named Engineering Programs.
- The Computer Engineering at Lincoln Campus (BSCP) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs.
- The Computer Engineering at Omaha Campus (BSCP) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria

and Program Criteria for Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs.

- The Construction Engineering (BS) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Construction and Similarly Named Engineering Programs.
- The Electrical Engineering (BS) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs.
- The Mechanical Engineering (BS) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Mechanical and Similarly Named Engineering Programs.
- The Software Engineering (BSSE) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Software and Similarly Named Engineering Programs.
- The Computer Science (BS) program is accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Computer Science and Similarly Named Computing Programs.
- The Construction Management (Bachelor of Science in Construction Management) program is accredited by the Applied and Natural Science Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Construction Management and Similarly Named Programs.

## Programs Seeking Accreditation

- The Environmental Engineering (BS) program is seeking accreditation through the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Environmental and Similarly Named Engineering Programs.

## Minors & Areas of Specializations Offered

College faculty encourage students to minor in a discipline outside the College of Engineering to further develop critical thinking skills, curiosity, understanding of the connections between engineering and the social or natural sciences and fine arts, and sensitivity to ethical issues.

- A minor will not reduce or alter the existing course or degree requirements for students electing to pursue a minor.
- A student's minor program(s) must be reviewed by an advisor prior to the submission of the senior check to the department chair or head. It is the responsibility of the student to determine that all requirements for the minor are met.
- The minor(s) must be approved by the cognizant program offering the minor(s).
- The College of Engineering will follow the "A/B" format of the UNL College of Arts and Sciences in which a student pursuing a single minor must complete the "A" requirements. A student pursuing a double (or greater) minor must fulfill either the "A" or "B" requirements for both minors depending on which plan is offered by the cognizant department.
- Departments may restrict students in their major(s) from obtaining certain minor(s) at their discretion; see the bulletin entry for individual majors for details.

## General College Policies

These policies are applicable to all students in the College of Engineering:

1. Student priority for entrance into classes for which demand exceeds available class space will be based on accumulative GPA. This priority will be applied at the end of early registration (when applicable).
2. At least 30 of the last 36 credit hours needed for a degree must be registered for and completed at UNL or UNO while identified with the College of Engineering. This means that practically speaking, the last year of a student's work must be spent in residence. Credit earned during education abroad may be used toward degree requirements if students participate in prior approved programs and register through the University of Nebraska-Lincoln (see <http://educationabroad.unl.edu>) or the University of Nebraska Omaha (see <https://www.unomaha.edu/international-studies-and-programs/study-abroad/index.php> (<https://www.unomaha.edu/international-studies-and-programs/study-abroad/>)).
3. Credit/No Credit courses: Students in the College of Engineering must take ENGR#10 Freshman Engineering Seminar or CSCE#10 Introduction to CSE, or RAIK 10 Raikes School Freshman Seminar, or ENGR 30 Transfer Student Engineering Seminar, or ENGR 193 Kiewit Scholars Freshman Seminar, or AREN 1010 Introduction to Architectural Engineering, and ENGR#20 Sophomore Engineering Seminar with the grading option Credit/No Credit. Some majors in the College of Engineering also require taking ENGR#40 Professional Ethics and Social Responsibilities with the grading option Credit/No Credit. Outside of these courses, students may take up to 12 credit hours of courses certified as ACE 5, 6, 7, 8, or 9 with the grading option of Credit/No Credit, if the major does not require a predetermined engineering course to fulfill the ACE requirement (example, some majors require BSEN/CONE#20 Engineering Economic to fulfill the ACE 8 requirement). # Students in the College of Engineering may not take any other ACE category, required or engineering/technical elective courses, with the grade option of Credit/No Credit.
4. Credits for "international students who are non-native speakers of English" at UNL and "English as a Second Language" at UNO are not applicable to degree programs in the College of Engineering.
5. Students who enroll at UNL, UNO, or UNK under the academic year (Fall, Spring, Summer) of this catalog must fulfill the requirements stated in this University of Nebraska-Lincoln catalog or in any other University catalog which is published while they are enrolled in the College, provided that the catalog is no more than 10 years old at the time of graduation. A student must, however, meet the graduation requirements from one catalog only. A student may not choose a portion from one catalog and the remainder from another catalog.

**Undergraduate Seminars.** All College of Engineering students are required to attend ENGR#10 CSCE 10, RAIK 10, ENGR 30, AREN 1010, or ENGR 193. These seminars provide information on engineering, computing, and construction disciplines, resources and tools available to students at the University, and opportunities to meet engineering, computing, and construction faculty members. Sophomore engineering students are required to attend ENGR#20 The Sophomore Engineering Seminar provides information on career planning, interviewing, resumé preparation, and coop/internship opportunities.

**Curriculum Requirement.** All engineering majors require a minimum of 45 credit hours (or equivalent) of engineering topics appropriate to the program, consisting of engineering and computer sciences and engineering design, and utilizing modern engineering tools. Engineering design is a process of devising a system, component, or process to meet desired needs and specifications within constraints. It is an iterative, creative, decision-making process in which the basic sciences, mathematics, and engineering sciences are applied to convert resources into solutions. Engineering design involves identifying opportunities, developing requirements, performing analysis and synthesis, generating multiple solutions, evaluating solutions

against requirements, considering risks, and making trade-offs, for the purpose of obtaining a high-quality solution under the given circumstances.

**Experiential Learning Requirement.** All undergraduates in the University of Nebraska-Lincoln, starting with the 2022-2023 catalog requirements, must complete an Experiential Learning (EL) course. The capstone course for each program is designated as an experiential learning course.

## Grade Appeals

In the event of a dispute involving any college policies or grades, the student should appeal to their instructor, and appropriate department chair or school director (in that order). If a satisfactory solution is not achieved, the student may appeal their case through the College Academic Appeals Subcommittee.

## Appeals for Academic Bankruptcy or Amnesty

Academic bankruptcy or amnesty removes the grade point factors of a semester taken at the University of Nebraska-Lincoln or the University of Nebraska Omaha from a student's cumulative grade point average, but the course(s) and grades(s) remain on the student's academic record. To review the criteria for eligibility, see <https://registrar.unl.edu/academic-standards/policies/academicbankruptcy/>. Students seeking academic amnesty/bankruptcy should consult with their academic advisor first.

## Appeals of Academic Suspension

Appeals of academic suspension must be filed in writing with the Office of the Dean within 21 days after official electronic notification/posting of the grades by the Registrar for the semester at the end of which the suspension was invoked. Suspended students who have filed a notice of appeal may apply to the Office of the Dean for a temporary release from suspension pending the final disposition of their appeal by the Academic Appeals Subcommittee of the College of Engineering.

## Student Recognition & Organizations

### The Complete Engineer®

The goal of the Complete Engineer® program is to help students focus on and enhance specific non-technical competencies in coordination with their strong technical foundation. Based on industry input concerning what they seek from employees, six competencies have been identified allowing growth in three levels. The first level (Exposure) is addressed in their classes. The second (Engagement) and third (Transformation) levels are addressed when students create their own development pathways by engaging in additional experiences and opportunities to develop greater skills in these competencies. To learn more about the Complete Engineer®, go to <https://engineering.unl.edu/complete-engineer/>.

### Dean's List

The College recognizes students for academic achievement during the fall and spring semesters by placement on the College Dean's List. To qualify for the College of Engineering Dean's List, students must complete 12 credit hours of graded coursework (courses must be started and completed in one semester) by the census date of the grade reports and attain a minimum semester grade point average of 3.700. The following do not qualify as part of the 12 credit hours: Credit/No Credit hours, transfer hours, removals of incompletes, and grade changes submitted after the census grade reports.

### Dean's Commendation List

The College recognizes part-time students for academic achievement during the fall and spring semesters by placement on the College Dean's Commendation List. To qualify for the College of Engineering Dean's

Commendation List, students must complete 6 credit hours or more (up to 11 credit hours) of graded coursework (courses must be started and completed in one semester) by the census date of the grade reports and attain a minimum semester grade point average of 3.700. The following do not qualify as part of the 6-11 credit hours: Credit/No Credit credit, transfer hours, removals of incomplete, and grade changes submitted after the census grade reports.

## Graduation with Distinction

GPA requirements for engineering students to graduate with levels of distinction are:

Distinction: # # # # # # # # # 3.750 – 3.849

High Distinction: 3.850 – 3.949

Highest Distinction: 3.950 – 4.000

For engineering students to graduate with Distinction, High Distinction, or Highest Distinction, they must meet the GPA levels listed above, and be approved by a majority vote of the faculty in the department offering their respective academic program. The GPA level is based on the cumulative GPA earned in the semester prior to the semester in which the student graduates.

## Honor Societies

These recognize students who excel in scholarship and give promise of being leaders in professional areas. They are branches of national societies and are generally open upon invitation to juniors and seniors: Alpha Epsilon (agricultural engineering), Chi Epsilon (civil engineering, both campuses), Eta Kappa Nu (electrical engineering, both campuses), Pi Tau Sigma (mechanical engineering), Sigma Lambda Chi (construction management, both campuses), Upsilon Pi Epsilon (computing and information disciplines <https://upei.acm.org/>), Sigma Xi (scientific, all colleges), Tau Alpha Pi (engineering technology, Scott campus in Omaha), and Tau Beta Pi (all engineering).

## Honors Program

The College of Engineering encourages qualified students to participate in the University Honors Program which is a University of Nebraska Omaha program. The College's honors students pursue degree programs offered by the College while completing the required honors courses.

All University Honors Program students are expected to complete a mentored thesis project with a faculty member of their choosing.

Students may also seek support from the University of Nebraska–Lincoln's Undergraduate Creative Activities and Research Experience (UCARE) program.

For more information about the University Honors Program, contact:

Dr. Lucy Morrison  
University of Nebraska Omaha  
208 Kayser Hall  
Omaha, NE 68182

## Professional Licensure

The College encourages professional licensure. Most of the College's engineering seniors take the Fundamentals of Engineering (FE) examination prior to graduation. This examination is administered by NCEES (<https://ncees.org/>) and is the first step in the process of becoming a licensed professional engineer. To become a licensed professional engineer, one must pass the FE exam, have at least four years of experience, and pass the Principles and Practice of Engineering (PE) Examination, including the Structural Engineering (SE) Exam (<https://ea.nebraska.gov/engineer-initial->

licensure). Students may take the FE exam in the last semester of their baccalaureate program.

## Technical Societies

The technical student societies help develop greater personal and professional interest and understanding in engineering, computer science, and construction management. Student branches of the major national technical and scientific societies are sponsored by the academic programs and departments.

Scott Campus (Omaha). Acoustical Society of America; American Society of Heating, Refrigeration and Air-conditioning Engineers; Architectural Engineering Institute; Architectural Engineering Student Leadership and Advisory Committee; Associated General Contractors of America; Earthquake Engineering Research Institute; Emerging Green Builders; Illuminating Engineering Society of North America; Mechanical Electrical Specialty Contractors; National Association of Home Builders Student Chapter; American Society of Civil Engineers; American Water Works Association/Water Environment Federation; Engineers Without Borders; Institute for Transportation Engineers; Structural Engineering Association of Nebraska; and Institute of Electrical & Electronics Engineers.

## Experiential Learning

Experiential Learning provides students with hands-on experiences that inform the educational experience and allows students to practice what they are learning in the classroom. UNL requires all students seeking a bachelors degree to complete one Experiential Learning class. The College of Engineering programs automatically include experiential learning courses in their curriculum as well as providing for additional experiential learning opportunities.

## Internships and Coops

For a student who anticipates pursuing a career as a practicing engineer, it is strongly recommended that the student engages in an internship or equivalent practical training experience.

## Undergraduate Research

The College and UNO offer a variety of opportunities for undergraduate students to obtain hands-on experience through research. Learn more about opportunities at <https://engineering.unl.edu/undergraduate-programs/undergraduate-research/>.

## International Study/Education Abroad

The College offers a variety of opportunities for students to enhance their international awareness. All students are required to demonstrate that they have at least a minimal international awareness, either through coursework or experience. A minor in International Engineering is available for students who seek a broad understanding of the nature and role of engineering in the integrated world economy and the implications of world events for engineering. International study tours of one to three weeks in duration are also sponsored by UNL's Office of Global Experience. The Office of Global Experiences has opportunities of various lengths in numerous countries on all continents.

## Other Items of Note

### Scholarships and Financial Aid

Each year the College awards scholarships to first-year students and upper-level students worth more than \$750,000. Scholarship awards are made possible through generous gifts of alumni and friends, as well as local and national organizations. Contact the Office of the Dean or

the Office of Scholarships and Financial Aid for information regarding these awards and for other financial assistance.

Application for University of Nebraska–Lincoln first-year student scholarships automatically makes you eligible for College of Engineering scholarships, as well as other university awards such as the Regents and David scholarships. You must submit the University of Nebraska–Lincoln Application form (due January 15, prior to the beginning of the next academic year) to be eligible.

A significant number of entering students have academic records that qualify them for university-wide scholarship awards. Each year, about 25 percent of the first-year Regent Scholarship recipients are engineering students.

Many students can find part-time employment in fields related to their interests.

## Graduate Course Opportunities

Courses supporting several engineering graduate programs are offered both on and off campus. For details, see the University of Nebraska–Lincoln Graduate Studies Catalog (<https://catalog.unl.edu/graduate-professional/>) and contact the appropriate department or Engineering Student Services.

Seniors in this University who have obtained prior approval from the Dean of Graduate Studies may receive up to 12 hours credit for graduate courses taken in addition to their required undergraduate work. However, these credits must be earned within the calendar year prior to receipt of the bachelor's degree. For procedures, inquire at the University's Graduate Studies Office. Graduate credits earned prior to receipt of the bachelor's degree may not always be accepted for transfer to other institutions as graduate work.

## Lifelong Learning

The education of professionals in construction management, computing, and engineering is a continuing process. The groundwork in both technical and non-technical studies is laid while in college, but education continues after graduation. For a professional, education will continue not only in the technical areas but in areas that relate to human and social concerns. A professional may expect to take a leadership role in the community and must have a broad awareness of human and social accomplishments, needs, values, and a willingness to take the responsibility for meeting these needs. For these reasons, an integrated program of coursework in the humanities and social sciences is a part of the educational requirements.

## College Admission

### College Entrance Requirements

Students must meet both the University and College of Engineering entrance requirements. The following includes both the University and College of Engineering entrance requirements.

Students must have high school credit for (one unit is equal to one high school year):

1. Mathematics – 4 units: 2 of algebra, 1 of geometry, and 1 of precalculus and trigonometry
2. English – 4 units
3. Natural sciences – 3 units that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management or computer science)
4. Foreign language – 2 units of a single foreign language
5. Social studies – 3 units
6. Students having a composite ACT score of 28 or greater (or equivalent SAT score) will be admitted to the College of Engineering even if

they lack any one of the following: trigonometry, chemistry, or physics. Students without test scores who are missing a full unit of trigonometry/pre-calculus/calculus or chemistry or physics will be evaluated through College Review.

A total of 16 units is required for admission.

Engineering requires that student performance meet one of the following standards: composite ACT of 24, SAT of 1180, ACT Math subscore of 24, SAT Math subscore of 580, or a 3.5 cumulative GPA.

Any domestic first-year student who does not gain admission to Engineering but does gain admission to the University of Nebraska–Lincoln (UNL) will be reviewed through College Review. College Review is conducted through the College Review Committee which considers factors beyond standardized testing. Any first-year student who is not admitted through college review is placed in Pre-Engineering (PENG) within the college and are advised by the Engineering Student Services.

Students who lack entrance units may complete precollege training by Independent Study through the University of Nebraska–Lincoln Office of On-line and Distance Education, in summer courses, or as a part of their first or second semester course loads while in the Academic and Career Development Center at the University of Nebraska Omaha.

Students should consult their advisor, their department chair, or Engineering Student Services (ESS) if they have questions on current policies.

## Other Admission Requirements

Students who transfer to the University of Nebraska Omaha from other accredited colleges or universities and wish to be admitted to the College of Engineering (COE) must meet COE first-year student entrance requirements, have a minimum cumulative GPA of 2.5, and be calculus-ready. Students not meeting either of these requirements must enroll in another University college until they meet COE admission requirements. Students transferring from UNO, UNL, or UNK to the College of Engineering must be in good academic standing with their institution.

The COE accepts courses for transfer for which a C or better grade was received. Although the University of Nebraska–Lincoln accepts D grades from the University of Nebraska Kearney and the University of Nebraska Omaha, not all majors in the COE accept such low grades. Students must conform to the requirements of their intended major and, in any case, are strongly encouraged to repeat courses with a grade of C- or less.

Students who were previously admitted to COE and are returning to the College of Engineering must demonstrate a cumulative GPA of 2.5 to be readmitted to COE.

## College of Engineering Programs

### Engineering

#### Architectural Engineering

- B.S. Degree Program (p. 612)

#### Civil Engineering

- B.S. Degree Program (p. 614)

#### Computer Engineering

- B.S. Degree Program (p. 618)

#### Construction Engineering

- B.S. Degree Program (p. 636)



## Construction Management

- B.S. Degree Program (<https://catalog.unomaha.edu/undergraduate/college-engineering/construction/construction-management-bs/>)

## Electrical Engineering

- B.S. Degree Program (p. 621)

## Environmental Engineering

- B.S. Degree Program (p. 625)

### First two years of:

- Agricultural Engineering (p. 632)
- Biological Systems Engineering (p. 633)
- Mechanical Engineering (p. 634)

## Graduate Programs

A variety of graduate programs in engineering and construction management are available. For details on programs leading to masters and doctorate degrees, including the application process, individuals should contact the appropriate department or office of the dean in the College of Engineering. Application forms are available at <http://www.unl.edu/gradstudies> (<http://www.unl.edu/gradstudies/>).

## Minors & Areas of Specializations Offered

College faculty encourage students to minor in a discipline outside the College of Engineering to further develop critical thinking skills, curiosity, understanding of the connections between engineering and the social or natural sciences and fine arts, and sensitivity to ethical issues.

### Policies

1. A minor will not reduce or alter the existing course or degree requirements for students electing to pursue a minor.
2. A student's minor program(s) must be reviewed by an advisor prior to the submission of the senior check to the department chair or head. It is the responsibility of the student to determine that all requirements for the minor are met.
3. The minor(s) must be approved by the cognizant program offering the minor(s).
4. Departments may restrict students in their major(s) from obtaining certain minor(s) at their discretion; see the catalog entry for individual majors for details.

## Architectural Engineering, Bachelor of Science

The architectural engineering (BSAE) undergraduate program is a four-year program requiring 128 credit hours. A one-year master of architectural engineering (MAE) program of 30 credits is also offered. The MAE degree is accredited by ABET, and almost all of our BSAE graduates continue to complete the MAE degree.

## Educational Objectives

The following are the BSAE/MAE program educational objectives (PEOs):

1. Professional Accomplishment: The AE program will prepare graduates to become licensed professional engineers a few years after graduation.

2. Career Accomplishment: The AE program will prepare graduates to contribute to society by working in an occupation related to the built environment a few years after graduation.

Architectural engineering (AE) is the engineering design of buildings. Students have the option to specialize in the design of one of the following:

1. Building structural systems
2. Building mechanical systems and acoustics
3. Building lighting and electrical systems

The first three years are common to all three fields of specialization and include the math and science courses common to all engineering programs. Students take an introductory course in AE in their first semester where they learn about the materials and systems that comprise a building, visit a construction site, and interact with their industry mentors. It provides a preview of the work they can expect to perform after graduation. This introductory course helps students decide if AE is the career path they wish to pursue.

In the third semester, the AE student begins the first of a three-course sequence of courses in AE Design and Simulation Studio. These courses familiarize the engineering student with building information technology (BIM), building systems, and how they support the design process of architects. The AE degree is keenly focused on integrating engineering concepts with architectural features to deliver aesthetic and high performing buildings. Exposure to construction is an important part of the AE student's education. It develops creativity and constructability where AE graduates enjoy a special ability to work effectively with all professionals on the design and construction team.

The AE program develops breadth and depth by requiring a good understanding of all the systems that comprise a building while also providing specialized education in one of the areas listed above. Breadth is provided in the fifth and sixth semesters, where all students take courses in each of the three areas of specialization. Depth is provided in the seventh and eighth semesters where courses are taken primarily in one of the three specialization tracks.

A one-year master of architectural engineering (MAE) degree follows the four-year undergraduate program. This fifth year continues the specialized education in each of the three option areas and provides the professional practice topics that architectural engineers need later in their careers.

The MAE year features a major interdisciplinary design project. The project requires students to practice the design skills and understanding of building systems previously developed. Student teams complete a significant building design in a manner that closely simulates professional practice. Industry and faculty members serve as consultants to the students.

Typically, students enter this design into the national Architectural Engineering Institute competition. Traditionally, our students do very well at this competition. Additionally, students complete an individual mastery project in a topic of their choice.

### Career Opportunities

Architectural engineering graduates normally enter the building design industry and become registered professional engineers. There are only about 20 accredited architectural engineering programs in the country, so there is a large unfulfilled demand for engineers educated in building design. In Nebraska, the home of several large architectural and engineering design firms, this is especially true.

Architectural engineering is accredited by the EAC-ABET, Inc. The accreditation is attached to the one-year master of architectural engineering degree.

### Major Department Admission

Students must complete at least 43 credit hours in the AE program before applying for professional admission to the degree program in AE.

Transfer students must have all transfer hours accepted before applying for professional admission. Professional admission in the BSAE program requires a minimum of 2.8 GPA and allows students to continue to take 300-level AREN courses. The number of admitted students will depend on the availability of space, faculty, and other academic resources. Students are not permitted to register for more than 61 credit hours of courses listed in the AE curriculum until they have been professionally admitted into the degree program.

## Learning Outcomes

Graduates of architectural engineering will develop:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The above student outcomes have been approved by the ABET Engineering Area Delegation for use beginning with the 2019-20 academic year, and have been adopted by the faculty of the Department of Architectural Engineering.

## Additional Major Requirements

### AREN 1000 DSAEC Seminar Requirement

Undergraduate Architectural Engineering majors are required to complete this zero-credit-hour course every semester they are in the major.

## Grade Rules

### C- and D grades

Architectural engineering students must earn a grade of C or better in math, science, computer programming, and engineering courses to obtain credit for that course toward graduation. Additionally, all courses that are prerequisites for engineering courses must be passed with a grade of C or better.

## Catalog to Use

Because of rapid technical developments, the AE curriculum is continually reviewed and upgraded. Students currently enrolled are expected to modify their programs to take advantage of such revisions. Students who do not maintain continuous progress toward the degree through enrollment in applicable coursework will be considered as new students upon re-entering the program and will be subject to the requirements of the undergraduate catalog current at the time of their re-entry.

## ACE Requirements

The AE program follows the University of Nebraska–Lincoln Achievement Centered Education (ACE) requirements. Because of the specific needs of the program, most of these courses are specified in the curriculum.

Please contact [DurhamSchool@unl.edu](mailto:DurhamSchool@unl.edu) ([durhamschool@unl.edu](mailto:durhamschool@unl.edu)), if you are interested in more information about this program.

## Requirements

| Course                    | Title   | Credits   |
|---------------------------|---|-----------|
| <b>First Semester</b>     |   |           |
| AREN 1010                 | INTRODUCTION TO ARCHITECTURAL ENGINEERING                               | 1         |
| CMST 1110                 | PUBLIC SPEAKING FUNDS <small>ENGR 100 is an accepted equivalent</small> | 3         |
| MATH 1950                 | CALCULUS I  | 5         |
| CHEM 1180                 | GENERAL CHEMISTRY I   | 3         |
| CHEM 1184                 | GENERAL CHEMISTRY I LABORATORY  | 1         |
| ACE ELECTIVE (SLO 9)      |   | 3         |
| AREN 1000                 | DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION SEMINAR     | 0         |
| ENGR 10                   | FRESHMAN ENGINEERING SEMINAR  | 0         |
| <b>Credits</b>            |   | <b>16</b> |
| <b>Second Semester</b>    |   |           |
| MATH 1960                 | CALCULUS II   | 4         |
| PHYS 2110                 | GENERAL PHYSICS I - CALCULUS LEVEL                                      | 4         |
| PHYS 1154                 | GENERAL PHYSICS LABORATORY I  | 1         |
| ACE ELECTIVE (SLO 5 OR 7) | ONE OF ACE 5 OR 7 MUST INCLUDE ART 3770 (7 ONLY) OR ART 3780 (5 ONLY)   | 3         |
| CIST 1600                 | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING                   | 3         |
| AREN 1000                 | DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION SEMINAR     | 0         |
| <b>Credits</b>            |   | <b>15</b> |
| <b>Third Semester</b>     |   |           |
| ECEN 211                  | ELEMENTS OF ELECTRICAL ENGINEERING                                      | 3         |
| MATH 1970                 | CALCULUS III  | 4         |
| PHYS 2120                 | GENERAL PHYSICS-CALCULUS LEVEL  | 4         |
| PHYS 1164                 | GENERAL PHYSICS LABORATORY II   | 1         |
| MECH 223                  | ENGINEERING STATICS   | 3         |
| AREN 1030                 | DESIGN AND SIMULATION STUDIO I  | 3         |
| AREN 1000                 | DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION SEMINAR     | 0         |
| <b>Credits</b>            |   | <b>18</b> |
| <b>Fourth Semester</b>    |   |           |
| MECH 200                  | ENGINEERING THERMODYNAMICS  | 3         |
| MATH 2350                 | DIFFERENTIAL EQUATIONS  | 3         |
| MECH 325                  | MECHANICS OF ELASTIC BODIES   | 3         |
| MECH 373                  | ENGINEERING DYNAMICS  | 3         |
| AREN 3070                 | MECHANICS OF MATERIALS LAB  | 1         |
| AREN 2030                 | DESIGN AND SIMULATION STUDIO II   | 3         |
| AREN 1000                 | DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION SEMINAR     | 0         |
| <b>Credits</b>            |   | <b>16</b> |
| <b>Fifth Semester</b>     |   |           |
| AREN 3200                 | LIGHTING I: FUND FOR DESIGN   | 3         |
| AREN 3300                 | BUILDING ACOUSTICS FUNDAMENTALS   | 3         |
| CONE 211                  | CONSTRUCTION BUSINESS METHODS   | 3         |
| CIVE 310                  | FLUID MECHANICS   | 3         |
| CIVE 310L                 | HYDRAULICS LAB  | 1         |



|           |   |   |
|-----------|---|---|
| CIVE 341  | STRUCTURAL ANALYSIS FUNDAMENTALS                                    | 3 |
| CIVE 342  | STRUCTURAL DESIGN FUNDAMENTALS                                      | 1 |
| AREN 1000 | DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION SEMINAR | 0 |

**Credits** **17**

#### Sixth Semester

|           |   |   |
|-----------|---|---|
| AREN 3220 | ELECTRICAL SYSTEMS FOR BUILDINGS I                                  | 3 |
| AREN 3100 | HVAC FUNDAMENTALS   | 3 |
| CIVE 441  | STEEL DESIGN I  | 3 |
| AREN 4040 | BUILDING ENVELOPES  | 3 |
| STAT 3800 | APPLIED ENGINEERING PROBABILITY AND STATISTICS                      | 3 |
| AREN 3030 | AE DESIGN AND SIMULATION STUDIO III                                 | 3 |
| AREN 1000 | DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION SEMINAR | 0 |

**Credits** **18**

#### Seventh Semester

All options:

|                    |  |   |
|--------------------|--|---|
| TECHNICAL ELECTIVE | SELECT FROM PUBLISHED LIST ON DURHAM SCHOOL WEBSITE  | 3 |
| CONE 206           | ENGINEERING ECONOMICS  | 3 |
| ENGL 3980          | TECHNICAL WRITING ACROSS THE DISCIPLINES <small>ENGR 220 is an accepted equivalent</small> | 3 |
| AREN 1000          | DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION SEMINAR                        | 0 |

Select one of the following three options **9**

#### Lighting and Electrical Option

|           |  |  |
|-----------|--|--|
| AREN 4200 | LIGHTING II: THEORY, DESIGN & APPLICATION          |  |
| AREN 4120 | BUILDING ENERGY II: PRIMARY AND SECONDARY SYSTEMS  |  |
| PSYC 1010 | INTRODUCTION TO PSYCHOLOGY I (satisfies ACE SLO 6) |  |

#### Mechanical and Acoustics Option

|                      |   |  |
|----------------------|---|--|
| AREN 4120            | BUILDING ENERGY II: PRIMARY AND SECONDARY SYSTEMS |  |
| ACE ELECTIVE (SLO 6) |   |  |
| GENERAL ELECTIVE     | ELECTIVE MUST BE APPROVED BY ADVISOR              |  |

#### Structural Option

|                      |                              |  |
|----------------------|------------------------------|--|
| CIVE 440             | REINFORCED CONCRETE DESIGN I |  |
| CIVE 443             | ADVANCED STRUCTURAL ANALYSIS |  |
| ACE ELECTIVE (SLO 6) |                              |  |

**Credits** **18**

#### Eighth Semester

All options

|                           |   |   |
|---------------------------|---|---|
| ACE ELECTIVE (SLO 5 OR 7) | ONE OF ACE 5 OR 7 MUST INCLUDE ART 3770 (7 ONLY) OR ART 3780 (5 ONLY) | 3 |
| AREN 1000                 | DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION SEMINAR   | 0 |

Select one of the following three options: **7**

#### Lighting and Electrical Option

|           |                          |  |
|-----------|--------------------------|--|
| AREN 4250 | LIGHTING DESIGN          |  |
| PSYC 4210 | SENSATION AND PERCEPTION |  |

#### Mechanical and Acoustics Option

|           |                        |  |
|-----------|------------------------|--|
| AREN 4150 | HVAC DESIGN            |  |
| AREN 4300 | ADVANCED NOISE CONTROL |  |

#### Structural Option

|          |  |  |
|----------|--|--|
| CIVE 444 | STRUCTURAL DESIGN AND PLANNING           |  |
| CIVE 331 | INTRODUCTION TO GEOTECHNICAL ENGINEERING |  |

**Credits** **10**

**Total Credits** **128**

## Civil Engineering, Bachelor of Science

### Description

Website: <https://cee.unl.edu/>

The Department of Civil and Environmental Engineering offers a complete undergraduate program to students on the Lincoln and Omaha campuses of the University of Nebraska. Curriculum requirements are nearly identical on both campuses. The goal is to prepare students for entry into the civil engineering profession immediately after graduation or to pursue graduate-level studies.

The general educational objectives of the University of Nebraska–Lincoln civil engineering undergraduate program are to prepare our graduates so that, with a University of Nebraska–Lincoln BSCE degree, a few years beyond graduation, alumni will:

- Be employed in civil and environmental engineering or a closely related field; or, graduates will be pursuing an advanced degree in civil and environmental engineering or a closely related field.
- Contribute to society and address societal and environmental needs through engagement in professional, community, or service organizations.
- Agree that the civil engineering program prepared them for success in their careers in terms of knowledge and skillsets as embodied in the program and the Complete Engineer™ Initiative.

As a professional discipline, civil engineering is closely related to the total human environment. In all professional endeavors, the civil engineer must consider ecological effects as well as the social, economic, and political needs of people. The civil engineer designs systems to control and manage our water resources to provide electric power, agricultural irrigation, flood control, recreation, water supplies, and wastewater treatment systems for our urban and industrial needs.

The civil engineer plans, designs, and constructs our transportation systems—including highways, railroads, waterways, and airports—to connect rural, urban, and industrial areas. The civil engineer also designs and constructs housing and facilities for recreational, industrial, and commercial complexes, which comprise the urban environment. It is the responsibility of civil engineering to minimize air, water, and land pollution and protect the environment.

Instructional emphasis is placed on fundamental engineering principles derived from mathematics, chemistry, physics, and engineering science. These subjects provide a sound background for the subsequent introductory courses in environmental, geotechnical, structural, transportation, and water resources engineering. Students are introduced to design concepts in the freshman year. Design is incorporated throughout the curriculum that culminates in two senior-level courses, CIVE 401 (<https://nextcatalog.unl.edu/search/?P=CIVE%20401>) Civil Engineering Design I

and CIVE 402 (<https://nextcatalog.unl.edu/search/?P=CIVE%20402>) Civil Engineering Design II.

Instructional laboratories in environmental engineering, hydraulics, geotechnical engineering, structures, and surveying provide each student with an opportunity to learn, through individual participation, the operation of the testing equipment used to establish engineering design criteria and to monitor and model engineering facilities such as water and wastewater treatment plants, river control systems, and structural systems.

The Department of Civil and Environmental Engineering also offers a major and a minor in Environmental Engineering.

## Learning Outcomes

Graduates of the civil engineering program will have:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The above student outcomes have been approved by the ABET Engineering Area Delegation for use beginning with the 2019-20 academic year, and have been adopted by the faculty of the Department of Civil and Environmental Engineering.

## Criteria for Professional Admission to the Civil Engineering Degree Program

Students are expected to meet minimum college entrance requirements. After being admitted to the college as pre-civil engineering students, students wishing to pursue a degree in civil engineering must further be admitted to the degree program. Students who have completed 43 credit hours applicable to their civil engineering degree are considered for formal admission to the civil engineering degree program. Transfer students must have at least 12 credit hours of coursework from the University of Nebraska–Lincoln on record before an application will be considered. Students must receive a grade of C or better in the following classes to be professionally admitted to the civil engineering program:

CHEM 1180 General Chemistry I and CHEM 1184 General Chemistry I Laboratory ;

MATH 1950 Calculus I , MATH 1960 Calculus II , and MATH 2350 Differential Equations ;

CIST 1600 Introduction to Programming Using Practical Scripting;

PHYS 2110 General Physics I ; and

MECH 223 Engineering Statics , and MECH 325 Mechanics of Elastic Bodies .

PLEASE NOTE:

This document represents a SAMPLE 4-year plan for degree completion with this major. Actual course selection and sequence may vary and should be discussed individually with your college or department academic advisor. Advisors also can help you plan other experiences to enrich your undergraduate education such as internships, education abroad, undergraduate research, learning communities, and service learning and community-based learning.

| Course   | Title  | Credits   |
|--|--|-----------|
| <b>First Semester</b>  |  |           |
| CIVE 101   | INTRODUCTION TO CIVIL ENGINEERING<br>(This fulfills the ENGR 10 requirement)                                     | 3         |
| CHEM 1180  | GENERAL CHEMISTRY I (Students must receive a "C" or better in this course.)                                      | 3         |
| CHEM 1184  | GENERAL CHEMISTRY I LABORATORY   | 1         |
| MATH 1950  | CALCULUS I (Students must receive a "C" or better in this course.)   | 5         |
| MATH 1950 becomes critical to your success in the major if not completed by the end of the first term of enrollment. Not compng MATH 1950 in the first term can delay completion of your degree.       |  |           |
| ACE 2 Communication Skills Elective  | See note below   | 3         |
| <b>Credits</b>   |  | <b>15</b> |
| <b>Second Semester</b>   |  |           |
| CIVE 102   | GEOMATICS FOR CIVIL ENGINEERING  | 3         |
| CIST 1600  | INTRODUCTION TO PROGRAMMING<br>USING PRACTICAL SCRIPTING (Students must receive a "C" or better in this course.) | 3         |
| PHYS 2110  | GENERAL PHYSICS I - CALCULUS LEVEL<br>(Students must receive a "C" or better in this course.)                    | 4         |
| PHYS 2110 becomes critical to your success in the major if not completed by the end of the second term of enrollment. Not completing PHYS 2110 in the second term can delay completion of your degree. |  |           |
| MATH 1960  | CALCULUS II (Students must receive a "C" or better in this course.)  | 4         |
| MATH 1960 becomes critical to your success in the major if not completed by the end of the second term of enrollment. Not completing MATH 1960 in the second term can delay completion of your degree. |  |           |
| ACE 1 Writing Elective   | See note below   | 3         |
| <b>Credits</b>   |  | <b>17</b> |
| <b>Third Semester</b>  |  |           |
| CIVE 201   | CIVIL ENGINEERING ANALYSIS I   | 2         |
| MECH 223   | ENGINEERING STATICS (Students must receive a "C" or better in this course.)                                      | 3         |
| MECH 223 becomes critical to your success in the major if not completed by the end of the third term of enrollment. Not completing MECH 223 in the third term can delay completion of your degree.     |  |           |
| PHYS 2120  | GENERAL PHYSICS-CALCULUS LEVEL (or CHEM 1190 and CHEM 1194)  | 4         |
| MATH 1970  | CALCULUS III   | 4         |
| ACE 5 Humanities Elective  | See note below   | 3         |
| ENGR 20  | SOPHOMORE ENGINEERING SEMINAR  | 0         |
| <b>Credits</b>   |  | <b>16</b> |
| <b>Fourth Semester</b>   |  |           |
| CIVE 202   | CIVIL ENGINEERING ANALYSIS II  | 2         |
| CIVE 371   | Materials of Construction  | 3         |

|          |  |   |
|----------|--|---|
| MECH 325 | MECHANICS OF ELASTIC BODIES<br>(Students must receive a "C" or better in this course.) | 3 |
|----------|--|---|

MECH 325 becomes critical to your success in the major if not completed by the end of the fourth term of enrollment. Not completing MECH 325 in the fourth term can delay completion of your degree.

|                               |  |   |
|-------------------------------|--|---|
| MECH 373                      | ENGINEERING DYNAMICS   | 3 |
| MATH 2350                     | DIFFERENTIAL EQUATIONS (Students must receive a "C" or better in this course.) | 3 |
| ACE 6 Social Science Elective | See note below   | 3 |

**Credits** **17**

#### Fifth Semester

|           |  |   |
|-----------|--|---|
| CIVE 301  | CIVIL ENGINEERING SYNTHESIS I                  | 1 |
| CIVE 310  | FLUID MECHANICS                                | 3 |
| CIVE 310L | HYDRAULICS LAB                                 | 1 |
| CIVE 341  | STRUCTURAL ANALYSIS FUNDAMENTALS               | 3 |
| CIVE 342  | STRUCTURAL DESIGN FUNDAMENTALS                 | 1 |
| CIVE 361  | PRINCIPLES OF TRANSPORTATION ENGINEERING       | 3 |
| STAT 3800 | APPLIED ENGINEERING PROBABILITY AND STATISTICS | 3 |

CIVE 310, CIVE 310L, CIVE 341, CIVE 342, and CIVE 361 become critical to your success in the major if not completed by the end of the fifth term of enrollment. Not completing CIVE 310, CIVE 310L, CIVE 341, and CIVE 361 in the fifth term can delay completion of your degree.

**Credits** **15**

#### Sixth Semester

|                     |   |   |
|---------------------|---|---|
| CIVE 302            | CIVIL ENGINEERING SYNTHESIS II              | 1 |
| CIVE 321            | PRINCIPLES OF ENVIRONMENTAL ENGINEERING     | 3 |
| CIVE 321L           | ENVIRONMENTAL ENGINEERING LABORATORY        | 1 |
| CIVE 331            | INTRODUCTION TO GEOTECHNICAL ENGINEERING    | 4 |
| CIVE 351            | INTRODUCTION TO WATER RESOURCES ENGINEERING | 3 |
| ACE 7 Arts Elective | See note below                              | 3 |

CIVE 321, CIVE 321L, CIVE 331, and CIVE 351 become critical to your success in the major if not completed by the end of the sixth term of enrollment. Not completing CIVE 321, CIVE 321L, CIVE 331, and CIVE 351 in the sixth term can delay completion of your degree.

**Credits** **15**

#### Seventh Semester

|   |  |   |
|---|--|---|
| CIVE 401                                      | CIVIL ENGINEERING DESIGN I   | 3 |
| CIVE Depth Elective (Environmental and Water) | Choose 1 from CIVE 420, CIVE 425, CIVE 427, CIVE 419, CIVE 452   | 3 |
| Science Elective                              | BIOL 1020 or BIOL 1450 or GEOL 1170 or (PHYS 1350 and PHYS 1354) or (GEOG 3510 and GEOG 3514) or (CHEM 2210 and CHEM 2214) | 4 |
| Technical Elective                            | Work with your advisor to correctly select this elective.  | 3 |
| ACE 8 Ethics Elective                         | See note below   | 3 |

**Credits** **16**

#### Eighth Semester

|   |  |   |
|---|--|---|
| CIVE 402  | CIVIL ENGINEERING DESIGN II  | 3 |
| CIVE Depth Elective (Geotech/Materials, Structures, and Transportation)           | Choose 1 from CIVE 436, CIVE 440, CIVE 441, CIVE 462, CIVE 463                           | 3 |
| CIVE Depth Elective (Choose one that was not used to fulfill another requirement) | CIVE 419, CIVE 420, CIVE 425, CIVE 427, CIVE 436, CIVE 440, CIVE 441, CIVE 462, CIVE 463 | 3 |
| Technical Elective  | Work with your advisor to correctly select this elective                                 | 3 |
| ACE 9 Global Awareness and Human Diversity Elective                               | See note below   | 3 |

**Credits** **15**

**Total Credits** **126**

NOTE: List of approved ACE courses offered on the Omaha campus ([https://tes.collegesource.com/publicview/TES\\_publicview03\\_group\\_report.aspx?sid=12214&rid=1d4a5187-e01b-4f1f-aaa6-b0040e957167&aid=e4ff42df-9ddc-4416-a5dd-18e971d1c0e4&cgrid=5508](https://tes.collegesource.com/publicview/TES_publicview03_group_report.aspx?sid=12214&rid=1d4a5187-e01b-4f1f-aaa6-b0040e957167&aid=e4ff42df-9ddc-4416-a5dd-18e971d1c0e4&cgrid=5508))

For more information, call 402-554-2462 or visit [www.engineering.unl.edu/civil/](http://www.engineering.unl.edu/civil/) (<http://www.engineering.unl.edu/civil/>)

## Major Requirements

### Requirements for the Degree of Bachelor of Science in Civil Engineering

The BS degree in civil engineering is offered on both the Lincoln and Omaha campuses. Degree Requirements - 126 hours

| Code                             | Title   | Credits |
|----------------------------------|---|---------|
| <b>CIVIL ENGINEERING CORE</b>    |   |         |
| CIVE 101                         | INTRODUCTION TO CIVIL ENGINEERING<br>(This fulfills the ENGR 10 requirement.) | 3       |
| CIVE 102                         | GEOMATICS FOR CIVIL ENGINEERING   | 3       |
| CIVE 201                         | CIVIL ENGINEERING ANALYSIS I  | 2       |
| CIVE 202                         | CIVIL ENGINEERING ANALYSIS II   | 2       |
| CIVE 301                         | CIVIL ENGINEERING SYNTHESIS I   | 1       |
| CIVE 302                         | CIVIL ENGINEERING SYNTHESIS II  | 1       |
| CIVE 401                         | CIVIL ENGINEERING DESIGN I  | 3       |
| CIVE 402                         | CIVIL ENGINEERING DESIGN II   | 3       |
| Credit Hours Subtotal:           |   | 18      |
| <b>CIVIL ENGINEERING BREADTH</b> |   |         |
| CIVE 310                         | FLUID MECHANICS   | 3       |
| CIVE 310L                        | HYDRAULICS LAB  | 1       |
| CIVE 321                         | PRINCIPLES OF ENVIRONMENTAL ENGINEERING                                       | 3       |
| CIVE 321L                        | ENVIRONMENTAL ENGINEERING LABORATORY  | 1       |
| CIVE 331                         | INTRODUCTION TO GEOTECHNICAL ENGINEERING                                      | 4       |
| CIVE 341                         | STRUCTURAL ANALYSIS FUNDAMENTALS  | 3       |
| CIVE 342                         | STRUCTURAL DESIGN FUNDAMENTALS  | 1       |
| CIVE 351                         | INTRODUCTION TO WATER RESOURCES ENGINEERING                                   | 3       |
| CIVE 361                         | PRINCIPLES OF TRANSPORTATION ENGINEERING                                      | 3       |

|  |   |    |
|--|---|----|
| CIVE 371   | MATERIALS OF CONSTRUCTION                                       | 3  |
| Credit Hours Subtotal:   |   | 25 |
| <b>CIVIL ENGINEERING DEPTH ELECTIVES</b>   |   |    |
| Depth Electives in Environmental and Water Resources Engineering   |   | 3  |
| Choose one from:   |   |    |
| CIVE 420   | ENVIRONMENTAL ENGINEERING PROCESS DESIGN                        |    |
| CIVE 425   | DESIGN OF WATER TREATMENT FACILITIES                            |    |
| CIVE 419   | FLOW SYSTEMS DESIGN   |    |
| CIVE 452   | WATER RESOURCES DEVELOPMENT                                     |    |
| Depth Electives in Geotechnical, Structural and Transportation Engineering   |   | 3  |
| Choose one from:   |   |    |
| CIVE 436   | FOUNDATION ENGINEERING  |    |
| CIVE 440   | REINFORCED CONCRETE DESIGN I                                    |    |
| CIVE 441   | STEEL DESIGN I  |    |
| CIVE 462   | HIGHWAY DESIGN  |    |
| CIVE 463   | TRAFFIC ENGINEERING (General Civil Engineering Depth Electives) |    |
| General Civil Engineering Depth Electives  |   | 3  |
| Choose three credits from the following that were not used to fulfill another requirement:   |   |    |
| CIVE 420, CIVE 425, CIVE 419, CIVE 436, CIVE 440, CIVE 441, CIVE 462, CIVE 463   |   |    |
| Credit Hours Subtotal:   |   | 9  |
| <b>GENERAL ENGINEERING</b>   |   |    |
| CIST 1600  | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING           | 3  |
| MECH 223   | ENGINEERING STATICS   | 3  |
| MECH 325   | MECHANICS OF ELASTIC BODIES                                     | 3  |
| MECH 373   | ENGINEERING DYNAMICS  | 3  |
| ENGR 20  | SOPHOMORE ENGINEERING SEMINAR                                   | 0  |
| Credit Hours Subtotal:   |   | 12 |
| <b>TECHNICAL ELECTIVES</b>   |   |    |
| Choose a total of six credits from:  |   | 6  |
| Any 400-level CIVE course not taken to fulfill another requirement   |   |    |
| Any 200-, 300- or 400-level course in any engineering major not used to fulfill another requirement  |   |    |
| Any 200-, 300- or 400-level course in Biology, Chemistry, Public Administration (including PA 1010), Geology, GEOG 2620, Mathematics, Statistics, or Physics not used to fulfill another requirement.  |   |    |
| Any course in the following list: ACCT 2000, ANTH 3910, ANTH 3920, BIOL 1020, BIOL 1450, BIOL 1750, BIOS 4940, CHEM 1190, ECON 2200, ENTR 3710, GEOG 1030, (GEOG 3510 and GEOG 3514), GEOL 1170, GEOL 1180, GEOL 1010, MKT 3310 not used to fulfill another requirement. |   |    |
| Credit Hours Subtotal:   |   | 6  |
| <b>SCIENCE</b>   |   |    |
| CHEM 1180 & CHEM 1184  | GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY          | 4  |
| PHYS 2110  | GENERAL PHYSICS I - CALCULUS LEVEL                              | 4  |
| Select one of the following:   |   | 4  |
| PHYS 2120  | GENERAL PHYSICS-CALCULUS LEVEL                                  |    |

|   |  |            |
|---|--|------------|
| CHEM 1190 & CHEM 1194   | GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY                           |            |
| Science Elective-Select one of the following:   |  |            |
| BIOL 1020   | PRINCIPLES OF BIOLOGY  |            |
| CHEM 2210 & CHEM 2214   | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY |            |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY   |            |
| PHYS 1350 & PHYS 1354   | PRINCIPLES OF ASTRONOMY and INTRODUCTORY ASTRONOMY LAB                             |            |
| GEOG 3510 & GEOG 3514   | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY                             |            |
| BIOL 1450   | BIOLOGY I  |            |
| Credit Hours Subtotal:  |  | 16         |
| <b>MATHEMATICS</b>  |  |            |
| MATH 1950   | CALCULUS I   | 5          |
| MATH 1960   | CALCULUS II  | 4          |
| MATH 1970   | CALCULUS III   | 4          |
| MATH 2350   | DIFFERENTIAL EQUATIONS   | 3          |
| STAT 3800   | APPLIED ENGINEERING PROBABILITY AND STATISTICS                                     | 3          |
| Credit Hours Subtotal:  |  | 19         |
| <b>ACE REQUIREMENTS</b>   |  |            |
| ACE 1: Writing  |  | 3          |
| Choose from the list of approved ACE 1 courses <sup>1</sup>   |  |            |
| ACE 2: Communication Skills   |  | 3          |
| Choose from the list of approved ACE 2 courses <sup>1</sup>   |  |            |
| ACE 3: Math/Stat Reasoning  |  |            |
| This requirement is satisfied by MATH 1950, MATH 1960, MATH 1970, MATH 2350, or STAT 3800                       |  |            |
| ACE 4: Science  |  |            |
| This requirement is satisfied by CHEM 1180, CHEM 1190, PHYS 2110, PHYS 2120, BIOL 1020, PHYS 1350, or GEOL 1170 |  |            |
| ACE 5: Humanities   |  | 3          |
| Choose from the list of approved ACE 5 courses <sup>1</sup>   |  |            |
| ACE 6: Social Sciences  |  | 3          |
| Choose from the list of approved ACE 6 courses <sup>1</sup>   |  |            |
| ACE 7: Arts   |  | 3          |
| Choose from the list of approved ACE 7 courses <sup>1</sup>   |  |            |
| ACE 8: Ethics   |  | 3          |
| Choose from the list of approved ACE 8 courses <sup>1</sup>   |  |            |
| ACE 9: Global Awareness and Human Diversity   |  | 3          |
| Choose from the list of approved ACE 9 courses <sup>1</sup>   |  |            |
| ACE 10: Capstone Experience   |  |            |
| This requirement is satisfied by CIVE 402   |  |            |
| Credit Hours Subtotal:  |  | 21         |
| <b>Total Credit Hours</b>   |  | <b>126</b> |

<sup>1</sup> List of approved ACE courses offered on the Omaha campus ([https://tes.collegesource.com/publicview/tes\\_publicview03\\_group\\_report.aspx?sid=12214&rid=1d4a5187-e01b-4f1f-aaa6-b0040e957167&aid=e4ff42df-9ddc-4416-a5dd-18e971d1c0e4&cgrid=5508](https://tes.collegesource.com/publicview/tes_publicview03_group_report.aspx?sid=12214&rid=1d4a5187-e01b-4f1f-aaa6-b0040e957167&aid=e4ff42df-9ddc-4416-a5dd-18e971d1c0e4&cgrid=5508))

# Electrical & Computer Engineering

The mission of the department of Electrical & Computer Engineering (ECE) at the University of Nebraska is to provide undergraduate and graduate level education in electrical and computer engineering, perform research and other scholarly activities, and furnish service to the state, nation, industry, and the profession. To fulfill this mission, the ECE department offers the degrees of Bachelor of Science in Electrical Engineering and in Computer Engineering, as well as several graduate programs. The faculty takes pride in its high level of interaction with both undergraduate and graduate students.

## General Requirements

The following sections apply to the electrical engineering and computer engineering programs. For more details visit the ECE department's website (<https://engineering.unl.edu/ece/>).

### Advisement

Upon entry into the curriculum, each student will be assigned an academic advisor. It is required that each student meet with the advisor prior to each class registration period and that all courses to be applied toward the degree be selected with the advice and approval of the advisor.

The student is expected to have his/her academic records reviewed and approval obtained from the ECE department prior to application to the University registrar for awarding of a degree in order to ensure that all curricular requirements have been satisfied by the time of the student's intended graduation.

### Curriculum

Because of the rapid developments in the fields of electrical and computer engineering, the curricular requirements are continually reviewed and updated to reflect technological advances. Curricular sequence and course descriptions contained herein are intended to serve as general guidelines. Contact the ECE department for information on any changes to the requirements that are currently in effect but not listed in this catalog.

Students who do not maintain continuous progress toward a degree through enrollment in applicable course work will be considered as new students upon reentering the electrical or computer engineering curricular sequence and will be subject to the requirements of the curriculum current at the time of their reentry. Certain courses may not be valid as prerequisites or as credit toward the degree after two academic years; the student's academic advisor should be consulted regarding applicability. The applicable University catalogs and college academic policies must be followed to ensure the student satisfies all of the Achievement Centered Education (ACE) requirements.

### Special Interest Areas

Opportunities are provided for the development of areas of special interest through enrollment in the individual study courses which are offered at the freshman through senior level for the student who may wish to develop a topic under the guidance of a department faculty member. Enrollment is by permission after a written proposal has been approved. Special topics courses are also offered by the department as the need arises. Academic advisers should be consulted regarding the particular topics to be covered and the necessary prerequisites for each offering of this course. Students who expect to continue their education at the graduate level after the award of the baccalaureate degree should consult their advisors regarding course selections that would enhance that objective.

Students are encouraged to develop their professional and leadership potential through participation in student chapters of related professional

organizations and in University extracurricular activities. Participation in the University Honors Program is encouraged for those who qualify.

### Transfer Course Work

The applicability of transfer course work with engineering content toward credit in the curriculum is determined on a case-by-case basis by the department.

### Financial Aid

Numerous opportunities exist for students to obtain financial aid during the course of their academic work at the university. The office of the dean of the college and the campus financial aid office should be consulted to determine the availability of such assistance.

### Degrees Offered

- Electrical Engineering (p. 621)
- Computer Engineering (p. 618)

## Computer Engineering, Bachelor of Science

The College of Engineering offers a complete computer engineering undergraduate program to students on the city (Lincoln) campus and the Scott (Omaha) campus of the University of Nebraska. Curriculum requirements are nearly identical on both campuses and students can complete all degree requirements on either campus.

In the college, the School of Computing and the Department of Electrical and Computer Engineering offer this challenging baccalaureate degree program in computer engineering that prepares graduates for professional practice in commerce, industry, and government and for post graduate education to enter careers in research and academia. The focus of the program is hands on integrated hardware/software system design.

Increasingly, diverse systems, products, and processes depend on computers for design, control, data acquisition, and other functions. The computer engineer possesses the range of expertise to have an integrated view of computer-based systems and to make global decisions.

The 124 credit-hours program in computer engineering leads to the Bachelor of Science degree in Computer Engineering. Thirty (30) hours of mathematics and science complement the required 58 hours of work in the computer engineering area. Six (6) hours in written and oral communications, twelve (12) hours in humanities and social sciences, and eighteen (18) hours of engineering electives provide the opportunity for the student to acquire a general educational background and gain cultural attributes with a university education.

The individual holding this degree will have advanced knowledge in his or her field of engineering interest and in addition will have a university educational background involving mathematics, the physical sciences, and the humanities and social sciences. Completion of this curriculum will enable the graduate to enter employment in positions involving computer hardware design and applications, computer software design and development, microcomputer based applications, and computer networking. The program also leads to the preparation for graduate work in computer engineering, computer science or electrical engineering.

## Program Educational Objectives

The Program Educational Objectives (PEOs) are a statement of what graduates are doing, or are capable of doing, three to five years after graduation. The students in the Computer Engineering program receive a strong foundation in engineering science and design that not only enables them to pursue productive careers in the computer engineering fields but also play an integral role in advancing other areas including business, management, medicine and manufacturing through computer engineering



technologies. The Program Educational Objectives for the Computer Engineering program are that graduates will be:

- Employed in business, non-profit, academia, government, or industry.
- Successful engineers who view computer systems as an integrated continuum of technologies, which engaging and collaborating with professionals in related fields to provide innovative, effective, responsible, and sustainable computer engineering solutions.
- Capable of quickly adapting to new work environments, assimilating new information, solving new problems, and creating new devices.
- Engaging in lifelong learning, which may include postgraduate education and being part of professional organizations, to successfully adapt to technological, industry specific, and cultural changes and to foster adept functioning in society.
- Performing engineering practice in a context that reflects awareness of the ethics of their profession and of the impacts of their work on the profession and society at large.

These Program Educational Objectives were developed with input from the program's constituency, consisting of employers (including the Industry Advisory Board), graduates of the program, and faculty .

## Student Outcomes

Student Outcomes are those abilities that a graduate of the Computer Engineering program will have attained so that he/she can meet the educational objectives established for the program.

At the time of graduation, students in the Computer Engineering program will have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Professional Admission Requirements

**Pre-professionally admitted College of Engineering students majoring in computer engineering will be granted profession admission into the computer engineering program if the students have:**

- maintained a cumulative GPA of at least 2.4 and is in good standing in the College of Engineering, and
- received at least a C in ECEN 215, ECEN 230 and CSCI 3320

## A transfer student will be admitted if he/she has:

- completed courses equivalent to ECEN 215, ECEN 230 and CSCI 3320 at other institutions with acceptable transfer grades of C or better, and
- earned a GPA of 2.4 or better during their first 12 credit hours in computer engineering course work at UNL/UNO.

Transfer students will be able to appeal to the College's Academic Appeals Committee for admission for an additional semester if they fail to meet the GPA requirement.

See the College of Engineering section of the catalog for details on admission to the college.

## Requirements

| Course                 | Title   | Credits   |
|------------------------|---|-----------|
| <b>First Year</b>      |   |           |
| <b>First Semester</b>  |   |           |
| MATH 1950              | CALCULUS I  | 5         |
| ECEN 155E              | COMPUTER SCIENCE I  | 3         |
| ECEN 164               | INTRODUCTION TO COMPUTER ENGINEERING                                    | 2         |
| ENGR 100               | INTERPERSONAL SKILLS FOR ENGINEERING LEADERS <sup>1</sup>               | 3         |
| ENGR 10                | FRESHMAN ENGINEERING SEMINAR  | 0         |
| <b>Credits</b>         |   | <b>13</b> |
| <b>Second Semester</b> |   |           |
| MATH 1960              | CALCULUS II   | 4         |
| PHYS 2110              | GENERAL PHYSICS I - CALCULUS LEVEL                                      | 4         |
| PHYS 1154              | GENERAL PHYSICS LABORATORY I  | 1         |
| ECEN 156               | COMPUTER SCIENCE II   | 4         |
| ENGL 1160              | ENGLISH COMPOSITION II  | 3         |
| <b>Credits</b>         |   | <b>16</b> |
| <b>Second Year</b>     |   |           |
| <b>First Semester</b>  |   |           |
| MATH 2050              | APPLIED LINEAR ALGEBRA  | 3         |
| MATH 2350              | DIFFERENTIAL EQUATIONS  | 3         |
| ECEN 313               | SWITCHING CIRCUITS THEORY   | 4         |
| ECEN 215               | ELECTRONICS AND CIRCUITS I <sup>2</sup>                                 | 3         |
| ECEN 235               | INTRODUCTORY ELECTRICAL LABORATORY I <sup>3</sup>                       | 1         |
| CSCI 2030              | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE                            | 3         |
| ENGR 20                | SOPHOMORE ENGINEERING SEMINAR   | 0         |
| <b>Credits</b>         |   | <b>17</b> |
| <b>Second Semester</b> |   |           |
| CSCI 3320              | DATA STRUCTURES   | 3         |
| ECEN 333               | COMPUTER DESIGN   | 4         |
| ECEN 222               | ELECTRONIC CIRCUITS I <sup>4</sup>                                      | 4         |
| ECEN 251               | UNIX PROGRAMMING ENVIRONMENT  | 1         |
| PHYS 2120              | GENERAL PHYSICS-CALCULUS LEVEL  | 4         |
| <b>Credits</b>         |   | <b>16</b> |
| <b>Third Year</b>      |   |           |
| <b>First Semester</b>  |   |           |
| ECEN 305               | PROBABILITY THEORY AND STATISTICS FOR ELECTRICAL AND COMPUTER ENGINEERS | 3         |
| ECEN 435               | EMBEDDED MICROCONTROLLER DESIGN   | 4         |



|                                    |  |            |
|------------------------------------|--|------------|
| ECEN 304                           | SIGNALS AND SYSTEMS I                  | 3          |
| ECEN 478                           | PRACTICAL MACHINE LEARNING             | 3          |
| ACE ELECTIVE <sup>5</sup>          |  | 3          |
| <b>Credits</b>                     |  | <b>16</b>  |
| <b>Second Semester</b>             |  |            |
| ECEN 325                           | COMMUNICATION AND NETWORKING           | 4          |
| CSCI 4830                          | INTRODUCTION SOFTWARE ENGINEERING      | 3          |
| ECEN 487                           | DATA AND NETWORK SECURITY <sup>6</sup> | 3          |
| ENGINEERING ELECTIVE <sup>7</sup>  |  | 3          |
| ACE ELECTIVE <sup>5</sup>          |  | 3          |
| <b>Credits</b>                     |  | <b>16</b>  |
| <b>Fourth Year</b>                 |  |            |
| <b>First Semester</b>              |  |            |
| ECEN 351                           | SYSTEM RESOURCE MANAGEMENT             | 3          |
| ECEN 483                           | COMPUTER ENGINEERING CAPSTONE I        | 3          |
| ENGINEERING ELECTIVES <sup>7</sup> |  | 9          |
| <b>Credits</b>                     |  | <b>15</b>  |
| <b>Second Semester</b>             |  |            |
| ECEN 499                           | COMPUTER ENGINEERING CAPSTONE II       | 3          |
| ENGINEERING ELECTIVES <sup>7</sup> |  | 6          |
| ACE ELECTIVES <sup>5</sup>         |  | 6          |
| <b>Credits</b>                     |  | <b>15</b>  |
| <b>Total Credits</b>               |  | <b>124</b> |

<sup>1</sup> CMST 1110 may be substituted for ENGR 100

<sup>2</sup> ECEN 213 may be substituted for ECEN 215

<sup>3</sup> ECEN 218 may be substituted for ECEN 235

<sup>4</sup> ECEN 316 and ECEN 236 may be substituted for ECEN 2225

<sup>5</sup> ACE electives: Choose one course from not yet satisfied ACE outcomes 5, 6, 7 or 9

<sup>6</sup> ECEN 484 may be substituted for ECEN 487

<sup>7</sup> Engineering Electives

The Computer Engineering programs requires 18 hours of Engineering electives. Of these 18 credit hours, at least 12 credit hours must be taken in the Computer Engineering (ECEN) emphasis areas. Below is a list of courses in each of the emphasis area.

#### 1. Signal, Image, and Video Processing

ECEN 415 core Digital Image Processing

ECEN 463 core Digital Signal Processing

ECEN 465 (<https://catalog.unomaha.edu/search/?P=ECEN%20465>)  
Intro Data Compression

ECEN 444 (<https://catalog.unomaha.edu/search/?P=ECEN%20465>)  
Linear Control Systems

ECEN 498 (<https://catalog.unomaha.edu/search/?P=ECEN%20465>)  
Special Topics: Real Time DSP Application

ECEN 498 (<https://catalog.unomaha.edu/search/?P=ECEN%20465>)  
Special Topics: Introduction to Computer Visio2.

#### 2. Cyber Security

ECEN 498 core Special Topics: Cyber Security

ECEN 488 (<https://catalog.unomaha.edu/search/?P=ECEN%20467>) core  
Wireless Security

ECEN 462 (<https://catalog.unomaha.edu/search/?P=ECEN%20468>)  
Communication Systems

#### 3. Communications and Networking

ECEN 462 (<https://catalog.unomaha.edu/search/?P=ECEN%20310>) core  
Communication Systems

ECEN 471 core Computer Communication Networks

ECEN 465 (<https://catalog.unomaha.edu/search/?P=ECEN%20352>)  
Intro Data Compression

ECEN 475 (<https://catalog.unomaha.edu/search/?P=ECEN%20469>)  
Satellite Communications

ECEN 476 (<https://catalog.unomaha.edu/search/?P=ECEN%20470>)  
Wireless Communications

ECEN 479 (<https://catalog.unomaha.edu/search/?P=ECEN%20470>)  
Optical Fiber Communications

ECEN 488 (<https://catalog.unomaha.edu/search/?P=ECEN%20470>)  
Wireless Security

#### 4. IoT and Cyber Physical Systems

ECEN 438 Integrated Systems Programming

ECEN 462 Communication Systems

ECEN 469 Analog Integrated Circuits

ECEN 474 Digital Systems

ECEN 476 Wireless Communications

ECEN 477 Digital Systems Organization and Design  
ECEN 498 Special Topics: Real Time DSP Application

#### 5. Autonomous Systems & Robotics

ECEN 345 core Mobile Robotics I

ECEN 444 Linear Control Systems

#### 6. Machine Intelligence

ECEN 410 core Multivariate Random Processes

ECEN 437 core Parallel and Distributed Processing

ECEN 448 Decision Analysis

ECEN 498 Special Topics: Computational Modeling and Simulation

#### 7. High Performance Computing

ECEN 437 core Parallel and Distributed Processing

ECEN 451 core Intro VLSI System Design

ECEN 452 Intro Computer-Aided Digital Design

#### 8. Bioinformatics and Computational Biology

ECEN 450 core Bioinformatics

ECEN 453 core Computational and Systems Biology

ECEN 460 Labview Programming

**ECEN 498 Special Topics: Bioengineering Image and Signal Processing**

Three to six credit hours must include the required core courses depending on each emphasis area. Of the remaining six to nine credit hours, three must be in a different emphasis area, and the remaining three to six credit hours must be in the same emphasis area.

The remaining 6 credit hours of technical electives may be taken from any 300- or 400-level course offering (with the exception of those listed below) in the Department of Electrical and Computer Engineering or in any other engineering department within the College of Engineering at UNL, or in the UNO Departments of Biology, Chemistry, Computer Science, Mathematics, or Physics or in the UNL Departments of Biological Sciences, Chemistry, Computer Science and Engineering, Mathematics, Statistics, or Physics and Astronomy.

**Not Allowed 300- and 400-Level Technical Electives**

ENGR 469 (<https://catalog.unomaha.edu/search/?P=ENGR%20469>) Technology, Science and Civilization

BIOL 3500 (<https://catalog.unomaha.edu/search/?P=BIOL%203500>) Biological Principles of Aging

CSCI 3710 (<https://catalog.unomaha.edu/search/?P=CSCI%203710>) Introduction to Digital Design and Computer Organization

STAT 3000 (<https://catalog.unomaha.edu/search/?P=STAT%203000>) Statistical Methods I

UNL BIOS 310 School of Biological Sciences Seminar

UNL IMSE 305 Introduction to Engineering Management

MATH 4980 (<https://catalog.unomaha.edu/search/?P=MATH%204980>) Seminar or UNL MATH 495 (<http://bulletin.unl.edu/undergraduate/courses/MATH/495/>) Seminar

UNL MATH 496 (<http://bulletin.unl.edu/undergraduate/courses/MATH/496/>) Seminar in Mathematics

or any other seminar-type courses.

**Allowed 100 and 200 Level Technical Electives**

UNL AGEN 225 (<http://bulletin.unl.edu/undergraduate/courses/AGEN/225/>) Engineering Properties of Biological Materials (BSEN 225 (<http://bulletin.unl.edu/undergraduate/courses/BSEN/225/>))

PHYS 4350 (<https://catalog.unomaha.edu/search/?P=PHYS%204350>) Astrophysics or ASTR 204 Introduction to Astronomy & Astrophysics

UNL ASTR 224 (<http://bulletin.unl.edu/undergraduate/courses/ASTR/224/>) Astronomy & Astrophysics Lab

BIOL 2140 (<https://catalog.unomaha.edu/search/?P=BIOL%202140>) Genetics or UNL BIOS 206 (<http://bulletin.unl.edu/undergraduate/courses/BIOS/206/>) General Genetics

BIOL 2740 (<https://catalog.unomaha.edu/search/?P=BIOL%202740>) Human Physiology and Anatomy I or UNL BIOS 213 (<http://bulletin.unl.edu/undergraduate/courses/BIOS/213/>) Human Physiology

CHEM 1190 (<https://catalog.unomaha.edu/search/?P=CHEM%201190>) General Chemistry II and CHEM 1194 (<https://catalog.unomaha.edu/search/?P=CHEM%201194>) General Chemistry II Laboratory or UNL CHEM 110 (<http://bulletin.unl.edu/undergraduate/courses/CHEM/110/>) General Chemistry II

CHEM 1190 (<https://catalog.unomaha.edu/search/?P=CHEM%201190>) General Chemistry II or UNL CHEM 114 (<http://bulletin.unl.edu/undergraduate/courses/CHEM/114/>) Fundamental Chemistry II

Any 2000 level chemistry course or UNL CHEM 2xx

UNL MATL 260 (<http://bulletin.unl.edu/undergraduate/courses/MATL/260/>) Elements of Materials Science

UNL MATL 262 (<http://bulletin.unl.edu/undergraduate/courses/MATL/262/>) Materials Lab I

MECH 223 (<https://catalog.unomaha.edu/search/?P=MECH%20223>) Engineering Statics

MECH 200 (<https://catalog.unomaha.edu/search/?P=MECH%20200>) Engineering Thermodynamics

## Electrical Engineering, Bachelor of Science

The Department of Electrical and Computer Engineering offers a complete electrical engineering undergraduate program to students on the City (Lincoln) and Scott (Omaha) campuses of the University of Nebraska. Curriculum requirements are nearly identical on both campuses and students can complete all degree requirements on either campus.

Electrical engineering is concerned with the production, transmission, and utilization of electrical energy and the creation, transmission and processing of information. This includes power generation and transmission systems, renewable energy, electric transportation, automated vehicle systems, control systems, and power electronics as well as radio frequency (RF) systems, telecommunications, remote sensing, bioinformatics, computer vision, biomedical engineering, signal processing, analog & digital circuits, instrumentation, audio, video and opto-electronics. Employment opportunities for electrical engineers cover a wide spectrum of activities including design, development, research, sales, and management. These activities are carried on in industrial organizations, public and private utilities, the communications and computer industry, governmental and educational institutions, and consulting engineering firms. The objective of this major is to offer students an education to become productive electrical engineers and be active, contributing citizens of the nation and the world.

This department has over 40 faculty involved in research related to electronic materials, nanotechnology, optical systems, communications, biomedical applications, signal processing, integrated circuit design, energy systems, and electromagnetics. Students are encouraged to participate in research activities and have opportunities to travel and present their research results.

The department has extensive research facilities for all areas including state of the art computing facilities, integrated circuits and systems research facilities, communications and signal processing laboratories, applied electromagnetics research, solid state laboratories, nanostructures research, electro-optics research and energy systems laboratories.

The curriculum is designed to provide a broad education in fundamental principles and laboratory applications, and an awareness of the socioeconomic impact of technology. Technical electives are normally selected from advanced courses in electrical engineering to provide for specialization in selected areas. However, technical electives can also be selected from courses offered by other departments of the College of Engineering or from appropriate physics, chemistry, mathematics, and biological sciences courses.

## Accreditation

The Electrical Engineering Program (BS) is accredited by the Engineering Accreditation Commission of ABET: <https://www.abet.org>, under the

commission's General Criteria and Program Criteria for Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering programs.

## Program Educational Objectives

The Program Educational Objectives (PEOs) for the electrical engineering program are a statement of what its graduates are doing three to five years after graduation. Electrical engineering is concerned with the production, transmission, and utilization of electrical energy and the transmission and processing of information. Employment opportunities for electrical engineers cover a wide spectrum of activities including design, development, research, sales, and management. These activities are carried on in industrial organizations, public and private utilities, the communications and computer industry, governmental and educational institutions, and consulting engineering firms. Careers may encompass electronic materials, nanotechnology, optical systems, communications, biomedical applications, signal processing, integrated circuit design, energy systems, and electromagnetics. The objective of this program is to offer students an education to become productive electrical engineers and be active, contributing citizens of the nation and the world.

The Program Educational Objectives for the Electrical Engineering program are that graduates will be:

- Employed in business, academia, or government.
- Successful engineers who have established productive careers in their field and have contributed to improve and provide innovative and effective solutions in electrical engineering or related fields.
- Demonstrating technical and decision-making processes and the human interactions necessary to produce viable, responsible, and sustainable technological solutions.
- Engaging in lifelong learning, which may include postgraduate education, to successfully adapt to technological, industry specific, and cultural changes and to foster adept functioning in society.
- Performing engineering practice in a context that reflects awareness of the ethics of their profession and of the impacts of their work on the profession and society at large.

These Program Educational Objectives were developed with input from the program's educational objectives constituency, consisting of employers (including the Industry Advisory Board), graduates of the program, and faculty of the department.

## Student Outcomes

Student Outcomes are those abilities that a graduate of the Electrical Engineering program will have attained so that he/she can meet the educational objectives established for the program.

At the time of graduation, students in the Electrical Engineering program will have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

6. an ability to develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Professional Admission Requirements

**Pre-professionally admitted College of Engineering students majoring in electrical engineering will be granted profession admission into the electrical engineering program if the students have:**

- maintained a cumulative GPA of at least 2.4 and is in good standing in the College of Engineering, and
- completed ECEN 215 Electronics and Circuits I and ECEN 216 Electronics and Circuits II with a grade of C or better.

**A transfer student will be admitted if he/she has:**

- completed courses equivalent to ECEN 215 and ECEN 216 at other institutions with acceptable transfer grades of C or better, and
- earned a GPA of 2.4 or better during their first 12 credit hours in electrical engineering course work at UNL/UNO.

Transfer students will be able to appeal to the College's Academic Appeals Committee for admission for an additional semester if they fail to meet the GPA requirement.

See the College of Engineering section of the catalog for details on admission to the college.

Students graduating with a Bachelor of Science in Electrical Engineering degree must successfully complete 124 credit hours as follows:

| Code | Title                                       | Credits |
|------|---|---------|
|      | Required electrical engineering courses     | 46      |
|      | Required math and science courses           | 32      |
|      | Technical electives                         | 25      |
|      | ACE (15) and Written/Oral Communication (6) | 21      |

## Requirements

| Course                 | Title   | Credits   |
|------------------------|---|-----------|
| <b>First Year</b>      |   |           |
| <b>First Semester</b>  |   |           |
| ECEN 102               | INTRODUCTION TO ELECTRICAL ENGINEERING                    | 2         |
| ECEN 155E              | COMPUTER SCIENCE I: SYSTEMS ENGINEERING FOCUS             | 3         |
| ENGR 100               | INTERPERSONAL SKILLS FOR ENGINEERING LEADERS <sup>1</sup> | 3         |
| ENGR 10                | FRESHMAN ENGINEERING SEMINAR                              | 0         |
| MATH 1950              | CALCULUS I  | 5         |
| <b>Credits</b>         |   | <b>13</b> |
| <b>Second Semester</b> |   |           |
| ECEN 103               | ELECTRICAL AND COMPUTER ENGINEERING FUNDAMENTALS          | 4         |
| ENGL 1160              | ENGLISH COMPOSITION II                                    | 3         |
| MATH 1960              | CALCULUS II   | 4         |
| PHYS 2110              | GENERAL PHYSICS I - CALCULUS LEVEL                        | 4         |
| <b>Credits</b>         |   | <b>15</b> |

**Second Year****First Semester**

|           |   |   |
|-----------|---|---|
| ECEN 215  | ELECTRONICS AND CIRCUITS I <sup>2</sup>           | 3 |
| ECEN 235  | INTRODUCTORY ELECTRICAL LABORATORY I <sup>3</sup> | 1 |
| ENGR 20   | SOPHOMORE ENGINEERING SEMINAR                     | 0 |
| ECEN 313  | SWITCHING CIRCUITS THEORY                         | 4 |
| MATH 1970 | CALCULUS III                                      | 4 |
| PHYS 2120 | GENERAL PHYSICS-CALCULUS LEVEL                    | 4 |
| PHYS 1164 | GENERAL PHYSICS LABORATORY II                     | 1 |

**Credits** **17**

**Second Semester**

|           |  |   |
|-----------|--|---|
| ECEN 220  | INTRODUCTION TO EMBEDDED SYSTEMS         | 4 |
| ECEN 216  | ELECTRONICS AND CIRCUITS II <sup>4</sup> | 3 |
| ECEN 222  | ELECTRONIC CIRCUITS I <sup>5</sup>       | 4 |
| MATH 2050 | APPLIED LINEAR ALGEBRA                   | 3 |
| MATH 2350 | DIFFERENTIAL EQUATIONS                   | 3 |

**Credits** **17**

**Third Year****First Semester**

|  |   |   |
|--|---|---|
| ECEN 304   | SIGNALS AND SYSTEMS I   | 3 |
| ECEN 305   | PROBABILITY THEORY AND STATISTICS FOR ELECTRICAL AND COMPUTER ENGINEERS | 3 |
| ECEN 307   | ELECTRICAL ENGINEERING LABORATORY I                                     | 2 |
| Electrical Engineering Option Technical Elective <sup>6</sup>    |   | 3 |
| Electrical Engineering or Other Technical Electives <sup>6</sup> |   | 3 |
| ACE Elective <sup>7</sup>  |   | 3 |

**Credits** **17**

**Second Semester**

|  |                                      |   |
|--|--------------------------------------|---|
| ECEN 306   | ELECTROMAGNETIC FIELD THEORY         | 3 |
| ECEN 347   | ELECTRICAL ENGINEERING LABORATORY II | 1 |
| Electrical Engineering or Other Technical Electives <sup>6</sup> |                                      | 4 |
| Science Elective   |                                      | 4 |
| ACE Elective <sup>7</sup>  |                                      | 3 |

**Credits** **15**

**Fourth Year****First Semester**

|  |                                   |   |
|--|-----------------------------------|---|
| ECEN 481   | ELECTRICAL ENGINEERING CAPSTONE I | 3 |
| Electrical Engineering Option Technical Elective <sup>6</sup>    |                                   | 6 |
| Electrical Engineering or Other Technical Electives <sup>6</sup> |                                   | 3 |
| ACE Elective <sup>7</sup>  |                                   | 3 |

**Credits** **15**

**Second Semester**

|  |                                    |   |
|--|------------------------------------|---|
| ECEN 495   | ELECTRICAL ENGINEERING CAPSTONE II | 3 |
| Electrical Engineering Option Technical Elective <sup>6</sup>    |                                    | 3 |
| Electrical Engineering or Other Technical Electives <sup>6</sup> |                                    | 3 |
| ACE Elective <sup>7</sup>  |                                    | 6 |

**Credits** **15**

**Total Credits** **124**

<sup>5</sup> ECEN 316 and ECEN 236 may be substituted for ECEN 222

<sup>6</sup> The department maintains an approved list of technical electives (within and outside of ECE) on the department website

<sup>7</sup> ACE electives: Choose one course from not yet satisfied ACE outcomes 5,6,7, 8 or 9

Total Credit Hours Required for Graduation - 124 Hours

**Technical Electives**

Each EE undergraduate student must choose one of the emphasis areas listed below for the EE technical electives.

**Electrical Engineering Emphasis Areas**

Communications and Signal Processing

Electromagnetic Fields and Optics

Electronics

Energy and Power Systems

Materials and Devices

Bioengineering

Modeling and Simulation

Telecommunications

**Electives**

There are 25 credit hours of technical electives required. Of these 25 credit hours, at least 12 credit hours must be taken in one of the electrical engineering (ECEN) emphasis areas. Below is a list of courses in each emphasis area.

Communications & Signal Processing

ECEN 410 Multivariate Random Processes

ECEN 325 Communication and Networking

ECEN 462 core Communications Systems

ECEN 424/ECEN 463 core Digital Signal Processing/Digital Signal Processing

ECEN 464 Digital Communication Systems

ECEN 465 Intro Data Compression

Electromagnetic Fields and Optics

ECEN 408 core Engineering Electromagnetics

ECEN 468 Microwave Engineering

ECEN 479 Optical Fiber Communications

ECEN 480 Introduction to Lasers and Laser applications

ECEN 486 Applied Photonics

Electronics

ECEN 310/ ECEN 474 core Digital Design and Interfacing/Digital Systems

ECEN 352/ECEN 361 core Electronic Circuits II/Advanced Electronics and Circuits

<sup>1</sup> CMST 1110 may be substituted for ENGR 100

<sup>2</sup> ECEN 213 may be substituted for ECEN 215

<sup>3</sup> ECEN 218 may be substituted for ECEN 235

<sup>4</sup> ECEN 214 may be substituted for ECEN 216

|  |                                   |
|--|-----------------------------------|
| ECEN 362<br>Transceivers                   | Data and Telecommunications       |
| ECEN 469                                   | Analog Integrated Circuits        |
| ECEN 470                                   | Digital and Analog VLSI Design    |
| Energy and Power Systems                   |                                   |
| ECEN 338 core                              | Intro Power and Energy Systems    |
| ECEN 406                                   | Power Systems Analysis            |
| ECEN 428 core                              | Power Electronics                 |
| ECEN 430                                   | Wind Energy                       |
| ECEN 436                                   | Electric Machines                 |
| ECEN 444                                   | Linear Control Systems            |
| ECEN 498                                   | Solar Energy                      |
| Materials and Devices                      |                                   |
| ECEN 417                                   | Semiconductor Fundamentals II     |
| ECEN 420<br>Semiconductors                 | Plasma Processing of              |
| ECEN 421 core<br>Materials and Devices I   | Principles of Semiconductor       |
| ECEN 422<br>Chemistry of Solids            | Introduction to Physics and       |
| Bioengineering                             |                                   |
| ECEN 450 core                              | Bioinformatics                    |
| ECEN 460                                   | Labview Programming               |
| ECEN 453                                   | Computational and Systems Biology |
| ECEN 498<br>Processing                     | Bioengineering Image and Signal   |
| Modeling and Simulation                    |                                   |
| ECEN 398<br>Simulation: Discrete Systems   | Computational Modeling and        |
| ECEN 448                                   | Decision Analysis                 |
| ECEN 498<br>Simulation: Continuous Systems | Computational Modeling and        |
| Telecommunications                         |                                   |
| ECEN 362<br>Transceivers                   | Data and Telecommunications       |
| ECEN 464 core                              | Digital Communication Systems     |
| ECEN 466 core                              | Telecommunications Engineering I  |

Of the 12 credit hours required in an emphasis area which are referred to as "EE Option Technical Electives", 6 credit hours must be taken from one of the eight EE emphasis areas listed. This must include at least one Core Course in that area.

In addition, at least one 3 credit hour course from a different EE emphasis area must be taken. The remaining 3 credits may be satisfied by any non-

required 3000- or 4000-level ECEN course except ECEN 399 Undergraduate Research.

The remaining 13 credit hours of technical electives which are referred to as "EE or other Technical Electives" may be taken from any 3000- or 4000-level course offering (with the exception of those listed below) in the Department of Electrical and Computer Engineering or in any other engineering department within the College of Engineering at UNL, or in the UNO Departments of Biology, Chemistry, Computer Science, Mathematics, or Physics or in the UNL Departments of Biological Sciences, Chemistry, Computer Science and Engineering, Mathematics, Statistics, or Physics and Astronomy.

## Not Allowed 300- and 400-Level Technical Electives

ENGR 469 Technology, Science and Civilization

BIOL 3500 Biological Principles of Aging

CSCI 3710 Introduction to Digital Design and Computer Organization

STAT 3000 Statistical Methods I

UNL BIOS 310 School of Biological Sciences Seminar

UNL IMSE 305 Introduction to Engineering Management

MATH 4980 Seminar or UNL MATH 495 (<http://bulletin.unl.edu/undergraduate/courses/MATH/495/>) Seminar

UNL MATH 496 (<http://bulletin.unl.edu/undergraduate/courses/MATH/496/>) Seminar in Mathematics

or any other seminar-type courses.

## Allowed 100 and 200 Level Technical Electives

UNL AGEN 225 (<http://bulletin.unl.edu/undergraduate/courses/AGEN/225/>) Engineering Properties of Biological Materials (BSEN 225 (<http://bulletin.unl.edu/undergraduate/courses/BSEN/225/>))

PHYS 4350 Astrophysics or ASTR 204 Introduction to Astronomy & Astrophysics

UNL ASTR 224 (<http://bulletin.unl.edu/undergraduate/courses/ASTR/224/>) Astronomy & Astrophysics Lab

BIOL 2140 Genetics or UNL BIOS 206 (<http://bulletin.unl.edu/undergraduate/courses/BIOS/206/>) General Genetics

BIOL 2740 Human Physiology and Anatomy I or UNL BIOS 213 (<http://bulletin.unl.edu/undergraduate/courses/BIOS/213/>) Human Physiology

CHEM 1190 General Chemistry II and CHEM 1194 General Chemistry II Laboratory or UNL CHEM 110 (<http://bulletin.unl.edu/undergraduate/courses/CHEM/110/>) General Chemistry II

CHEM 1190 General Chemistry II or UNL CHEM 114 (<http://bulletin.unl.edu/undergraduate/courses/CHEM/114/>) Fundamental Chemistry II

Any 2000 level chemistry course or UNL CHEM 2xx

CSCI 1620 Introduction to Computer Science II or UNL CSCE 156 (<http://bulletin.unl.edu/undergraduate/courses/CSCE/156/>) Computer Science II

MATH 2030 Discrete Mathematics or UNL CSCE 235 (<http://bulletin.unl.edu/undergraduate/courses/CSCE/235/>) Introduction to Discrete Structures



UNL CSCE 251 (<http://bulletin.unl.edu/undergraduate/courses/CSCE/251/>)  
Unix Programming Environment

UNL MATL 260 (<http://bulletin.unl.edu/undergraduate/courses/MATL/260/>)  
Elements of Materials Science

UNL MATL 262 (<http://bulletin.unl.edu/undergraduate/courses/MATL/262/>)  
Materials Lab I

MECH 223 Engineering Statics

MECH 200 Engineering Thermodynamics

No more than a total of 3 credit hours may be taken in ECEN 399 or similar offerings from other departments.

However, students can choose a "Research Option." The purpose of research option is to provide research experiences and offer opportunities for students to work with a faculty advisor on a specific research topic. A certificate of completion of thesis will be awarded to the students, and outstanding thesis awards will be presented at the end of semester functions. Requirements for the research option are listed below.

## Research Option

1. Selection of a faculty advisor (ECE department faculty), research topic, and thesis committee (at least one other faculty).
2. Registration for 6 credit hours of undergraduate research (ECEN 399) over at least two consecutive semesters on the same research topic.
3. GPA of above 3.0.
4. Write an undergraduate thesis or report and make an oral presentation to be graded by thesis committee members.

## Science Electives

BIOL 1450 BIOLOGY I (5 cr) or UNL LIFE 120 and LIFE 120L  
FUNDAMENTALS OF BIOLOGY I

CHEM 1180 (3 cr) and CHEM 1184 (1 cr) or UNL CHEM 109 or CHEM 111 or CHEM 113

PHYS 2130 (4 cr) or UNL PHYS 213

# Environmental Engineering, Bachelor of Science

The Department of Civil and Environmental Engineering offers a complete environmental engineering undergraduate program to students on the Lincoln and Omaha campuses of the University of Nebraska. Curriculum requirements are nearly identical on both campuses. The goal is to prepare students for entry into the environmental engineering profession immediately after graduation or to pursue graduate-level studies.

The general educational objectives of the University of Nebraska–Lincoln environmental engineering undergraduate program are to prepare our graduates so that, with a UNL BS ENVE degree, a few years beyond graduation, alumni will:

- Be employed in environmental engineering or a closely related field and successfully pursue professional licensure; or, graduates will be pursuing an advanced degree in environmental engineering, a closely related field or professional education in engineering, medicine, business, or law.
- Contribute to society and address societal and environmental needs through engagement in professional, community, or service organizations.

- Agree that the environmental engineering program prepared them for success in their careers in terms of knowledge and skillsets as embodied in the program and the Complete Engineer™ Initiative.

The professional discipline of environmental engineering is defined as the application of engineering principles to improve and maintain the environment for the protection of human health, for the protection of nature's beneficial ecosystems, and for environment-related enhancement of the quality of human life. In all professional endeavors, the environmental engineer must consider ecological effects as well as the social, economic, and political needs of people.

The environmental engineer devises solutions for topics ranging from water and air pollution control and treatment, drinking water supply, wastewater management, solid waste management, public health, water resources management, sustainable design, and industrial ecology. Environmental engineers focus on minimizing the impacts of air, water, and land pollution, minimizing waste production, maximizing the use of renewable energy in environmental systems, and protecting the environment.

Instructional emphasis is placed on fundamental engineering principles derived from mathematics, chemistry, physics, biology, earth science, and engineering science. These subjects provide a sound background for the subsequent introductory courses in environmental engineering, water resources engineering, fate and transport, process design, and sustainable design. Students are introduced to design concepts in the freshman year. Design is incorporated throughout the curriculum that culminates in two senior-level courses, ENVE 401 Environmental Engineering Design I and ENVE 402 Environmental Design II.

Instructional laboratories in that provide experiences with more than one media (water, soil, and air) in environmental engineering provide each student with an opportunity to learn, through individual participation.

## Learning Outcomes

Graduates of the environmental engineering program will have:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The above student outcomes have been approved by the ABET Engineering Area Delegation for use beginning with the 2019-20 academic year, and have been adopted by the faculty of the Department of Civil and Environmental Engineering.



## Criteria for Professional Admission to the Environmental Engineering Degree Program

Students are expected to meet minimum college entrance requirements. After being admitted to the college as pre-environmental engineering students, students wishing to pursue a degree in environmental engineering must further be admitted to the degree program. Students who have completed 43 credit hours applicable to their environmental engineering degree are considered for formal admission to the environmental engineering degree program. Transfer students must have at least 12 credit hours of coursework from the University of Nebraska–Lincoln on record before an application will be considered. Students must receive a grade of C or better in the following classes to be professionally admitted to the environmental engineering program:

CHEM 1180 General Chemistry I and CHEM 1184 General Chemistry I Laboratory ;

MATH 1950 Calculus I , MATH 1960 Calculus II , and MATH 2350 Differential Equations ;

CIST 1600 Introduction to Programming Using Practical Scripting ;

PHYS 2110 General Physics I ;

MECH 223 MECH 223 Engineering Statics, and MECH 325 MECH 325 Mechanics of Elastic Bodies or MECH 373 MECH 373 Engineering Dynamics.

### PLEASE NOTE

This document represents a SAMPLE 4-year plan for degree completion with this major. Actual course selection and sequence may vary and should be discussed individually with your college or department academic advisor. Advisors also can help you plan other experiences to enrich your undergraduate education such as internships, education abroad, undergraduate research, learning communities, and service learning and community-based learning.

Students must have completed the equivalent of the fourth semester before admission to the environmental engineering program. Transfer students must have all transfer hours accepted before being considered for the degree program.

| Course                              | Title   | Credits   |
|-------------------------------------|---|-----------|
| <b>First Semester</b>               |   |           |
| ENVE 101                            | INTRODUCTION TO ENVIRONMENTAL ENGINEERING (This fulfills the ENGR 10 requirement) | 3         |
| CHEM 1180                           | GENERAL CHEMISTRY I   | 3         |
| CHEM 1184                           | GENERAL CHEMISTRY I LABORATORY  | 1         |
| MATH 1950                           | CALCULUS I  | 5         |
| ACE 2 Communication Skills Elective | See note below  | 3         |
| <b>Credits</b>                      |   | <b>15</b> |
| <b>Second Semester</b>              |   |           |
| CIST 1600                           | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING                             | 3         |
| CHEM 1190                           | GENERAL CHEMISTRY II  | 3         |
| PHYS 2110                           | GENERAL PHYSICS I - CALCULUS LEVEL  | 4         |
| MATH 1960                           | CALCULUS II   | 4         |
| ACE 1 Writing Elective              | See note below  | 3         |
| <b>Credits</b>                      |   | <b>17</b> |

|                           |   |           |
|---------------------------|---|-----------|
| <b>Third Semester</b>     |   |           |
| ENVE 210                  | FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING | 3         |
| MECH 223                  | ENGINEERING STATICS                       | 3         |
| BIOL 1020                 | PRINCIPLES OF BIOLOGY                     | 4         |
| MATH 1970                 | CALCULUS III                              | 4         |
| ACE 5 Humanities Elective | See note below                            | 3         |
| ENGR 20                   | SOPHOMORE ENGINEERING SEMINAR             | 0         |
| <b>Credits</b>            |   | <b>17</b> |

|                                |   |           |
|--------------------------------|---|-----------|
| <b>Fourth Semester</b>         |   |           |
| CIVE 321                       | PRINCIPLES OF ENVIRONMENTAL ENGINEERING                   | 3         |
| MECH 373 or MECH 325           | ENGINEERING DYNAMICS or MECHANICS OF ELASTIC BODIES       | 3         |
| GEOL 1010 or GEOL 1170         | ENVIRONMENTAL GEOLOGY or INTRODUCTION TO PHYSICAL GEOLOGY | 3         |
| MATH 2350                      | DIFFERENTIAL EQUATIONS                                    | 3         |
| ACE 6 Social Sciences Elective | See note below  | 3         |
| <b>Credits</b>                 |   | <b>15</b> |

|                       |  |           |
|-----------------------|--|-----------|
| <b>Fifth Semester</b> |  |           |
| CIVE 310              | FLUID MECHANICS                                    | 3         |
| ENVE 322              | BIOLOGICAL PRINCIPLES OF ENVIRONMENTAL ENGINEERING | 2         |
| CIVE 321L             | ENVIRONMENTAL ENGINEERING LABORATORY               | 1         |
| STAT 3800             | APPLIED ENGINEERING PROBABILITY AND STATISTICS     | 3         |
| ACE 7 Arts Elective   | See note below                                     | 3         |
| ACE 8 Ethics Elective | See note below                                     | 3         |
| <b>Credits</b>        |  | <b>15</b> |

|                       |  |           |
|-----------------------|--|-----------|
| <b>Sixth Semester</b> |  |           |
| ENVE 410              | ENVIRONMENTAL FATE AND TRANSPORT   | 3         |
| CIVE 351              | INTRODUCTION TO WATER RESOURCES ENGINEERING  | 3         |
| CIVE 424 or CHME 4890 | SOLID WASTE MANAGEMENT ENGINEERING or AIR POLLUTION, ASSESSMENT AND CONTROL        | 3         |
| CHEM 2210 & CHEM 2214 | FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY | 5         |
| MECH 200              | ENGINEERING THERMODYNAMICS   | 3         |
| <b>Credits</b>        |  | <b>17</b> |

|  |   |   |
|--|---|---|
| <b>Seventh Semester</b>                                      |   |   |
| ENVE 430   | SUSTAINABLE DESIGN IN ENVIRONMENTAL ENGINEERING | 3 |
| CIVE 420   | ENVIRONMENTAL ENGINEERING PROCESS DESIGN        | 3 |
| ENVE 401   | ENVIRONMENTAL ENGINEERING DESIGN I              | 3 |
| ACE 9 Global Awareness and Human Diversity Elective          | See note below                                  | 3 |
| Environmental Engineering Elective                           |   | 3 |
| Choose one that was not used to fulfill another. requirement |   |   |

|   |            |
|---|------------|
| CIVE 331, CIVE 371, CIVE 419, CIVE 422, CIVE 424,<br>CIVE 425, CIVE 430, CIVE 452, CIVE 454, CIVE 455,<br>CIVE 456, CIVE 458, CIVE 475, CIVE 481  |            |
| <b>Credits</b>  | <b>15</b>  |
| <b>Eighth Semester</b>  |            |
| CIVE 419      FLOW SYSTEMS DESIGN<br>or CIVE 452      or WATER RESOURCES<br>DEVELOPMENT   | 3          |
| ENVE 402      ENVIRONMENTAL ENGINEERING<br>DESIGN II  | 3          |
| Environmental Engineering Elective  | 3          |
| Choose one that was not used to fulfill another requirement<br>CIVE 331, CIVE 371, CIVE 419, CIVE 422, CIVE 424,<br>CIVE 425, CIVE 430, CIVE 452, CIVE 454, CIVE 455,<br>CIVE 456, CIVE 458, CIVE 475, CIVE 481 |            |
| Technical Electives   | 5          |
| Work with your advisor to correctly select this elective.   |            |
| <b>Credits</b>  | <b>14</b>  |
| <b>Total Credits</b>  | <b>125</b> |

A list of approved ACE courses offered on the Omaha campus can be found here ([https://tes.collegesource.com/publicview/tes\\_publicview03\\_group\\_report.aspx?sid=12214&rid=1d4a5187-e01b-4f1f-aaa6-b0040e957167&aid=e4ff42df-9ddc-4416-a5dd-18e971d1c0e4&cgrid=5508](https://tes.collegesource.com/publicview/tes_publicview03_group_report.aspx?sid=12214&rid=1d4a5187-e01b-4f1f-aaa6-b0040e957167&aid=e4ff42df-9ddc-4416-a5dd-18e971d1c0e4&cgrid=5508)).

For more information, call 402-554-2462 or visit [www.engineering.unl.edu/civil/](http://www.engineering.unl.edu/civil/) (<http://www.engineering.unl.edu/civil/>)

## Major Requirements

### Requirements for the Degree of Bachelor of Science in Environmental Engineering

The BS degree in environmental engineering is offered on both the Lincoln and Omaha campuses. Degree Requirements - 125 hours

| Code                                       | Title  | Credits |
|--|--|---------|
| <b>ENVIRONMENTAL ENGINEERING CORE</b>      |  |         |
| ENVE 101                                   | INTRODUCTION TO ENVIRONMENTAL ENGINEERING          | 3       |
| ENVE 210                                   | FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING          | 3       |
| ENVE 322                                   | BIOLOGICAL PRINCIPLES OF ENVIRONMENTAL ENGINEERING | 2       |
| ENVE 410                                   | ENVIRONMENTAL FATE AND TRANSPORT                   | 3       |
| ENVE 430                                   | SUSTAINABLE DESIGN IN ENVIRONMENTAL ENGINEERING    | 3       |
| ENVE 401                                   | ENVIRONMENTAL ENGINEERING DESIGN I                 | 3       |
| ENVE 402                                   | ENVIRONMENTAL ENGINEERING DESIGN II                | 3       |
| Credit Hours Subtotal                      |  | 20      |
| <b>CIVIL AND ENVIRONMENTAL ENGINEERING</b> |  |         |
| CIVE 310                                   | FLUID MECHANICS                                    | 3       |
| CIVE 321                                   | PRINCIPLES OF ENVIRONMENTAL ENGINEERING            | 3       |
| CIVE 321L                                  | ENVIRONMENTAL ENGINEERING LABORATORY               | 1       |
| CIVE 351                                   | INTRODUCTION TO WATER RESOURCES ENGINEERING        | 3       |

|   |   |    |
|---|---|----|
| CIVE 420  | ENVIRONMENTAL ENGINEERING PROCESS DESIGN                                    | 3  |
| CIVE 419<br>or CIVE 452   | FLOW SYSTEMS DESIGN<br>WATER RESOURCES DEVELOPMENT                          | 3  |
| CIVE 424<br>or CHME 4890  | SOLID WASTE MANAGEMENT ENGINEERING<br>AIR POLLUTION, ASSESSMENT AND CONTROL | 3  |
| Credit Hours Subtotal   |   | 19 |
| <b>GENERAL ENGINEERING</b>  |   |    |
| CIST 1600   | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING                       | 3  |
| MECH 223  | ENGINEERING STATICS   | 3  |
| MECH 325<br>or MECH 373   | MECHANICS OF ELASTIC BODIES<br>ENGINEERING DYNAMICS                         | 3  |
| MECH 200  | ENGINEERING THERMODYNAMICS  | 3  |
| ENGR 20   | SOPHOMORE ENGINEERING SEMINAR   | 0  |
| Credit Hours Subtotal   |   | 12 |
| <b>ENVIRONMENTAL ENGINEERING ELECTIVES</b>  |   |    |
| Choose a total of six credits of courses not used to satisfy another degree requirement from the following list of courses:   |   | 6  |
| CIVE 331  | INTRODUCTION TO GEOTECHNICAL ENGINEERING                                    |    |
| CIVE 371  | MATERIALS OF CONSTRUCTION   |    |
| CIVE 419  | Flow Systems Design   |    |
| CIVE 422  | POLLUTION PREVENTION: PRINCIPLES AND PRACTICES                              |    |
| CIVE 424  | Solid Waste Management Engineering  |    |
| CIVE 425  | DESIGN OF WATER TREATMENT FACILITIES  |    |
| CIVE 430  | FUNDAMENTALS OF WATER QUALITY MODELING                                      |    |
| CIVE 452  | WATER RESOURCES DEVELOPMENT   |    |
| CIVE 454  | HYDRAULIC ENGINEERING   |    |
| CIVE 455  | NONPOINT SOURCE POLLUTION CONTROL ENGINEERING                               |    |
| CIVE 456  | SURFACE WATER HYDROLOGY   |    |
| CIVE 458  | GROUNDWATER ENGINEERING   |    |
| CIVE 475  | WATER QUALITY STRATEGY  |    |
| CIVE 481  | COMPUTATIONAL PROBLEM SOLVING IN CIVIL ENGINEERING                          |    |
| CHME 4890   | AIR POLLUTION, ASSESSMENT AND CONTROL                                       |    |
| Credit Hours Subtotal   |   | 6  |
| <b>TECHNICAL ELECTIVES</b>  |   |    |
| Choose a total of six credits from:   |   | 6  |
| Any 400-level CIVE course not taken to fulfill another requirement  |   |    |
| Any 200-, 300- or 400-level course in any engineering major not used to fulfill another requirement   |   |    |
| Any 200-, 300- or 400-level course in Biology, Chemistry, Public Administration (including PA 1010), Geology, GEOG 2620, Mathematics, Statistics, or Physics not used to fulfill another requirement.   |   |    |
| Any course in the following list: ACCT 2000, ANTH 3910, ANTH 3920, BIOL 1020, BIOL 1450, BIOL 1750, BIOL 4940, ECON 2200, ENTR 3710, GEOG 1030, (GEOG 3510 and GEOG 3514), GEOL 1170, GEOL 1180, GEOL 1010, MKT 3310 not used to fulfill another requirement. |   |    |
| Credit Hours Subtotal:  |   | 6  |
| <b>SCIENCE</b>  |   |    |

|   |   |            |
|---|---|------------|
| CHEM 1180<br>& CHEM 1184  | GENERAL CHEMISTRY I<br>and GENERAL CHEMISTRY I<br>LABORATORY  | 4          |
| CHEM 1190   | GENERAL CHEMISTRY II  | 3          |
| CHEM 2210<br>& CHEM 2214  | FUNDAMENTALS OF ORGANIC<br>CHEMISTRY<br>and FUNDAMENTALS OF ORGANIC<br>CHEMISTRY LABORATORY (The 1 credit<br>for CHEM 2214 can be used as a<br>Technical Elective.) | 5          |
| BIOL 1020   | PRINCIPLES OF BIOLOGY   | 4          |
| GEOL 1010<br>or GEOL 1170   | ENVIRONMENTAL GEOLOGY<br>INTRODUCTION TO PHYSICAL GEOLOGY   | 3          |
| PHYS 2110   | GENERAL PHYSICS I - CALCULUS LEVEL  | 4          |
| Credit Hours Subtotal   |   | 22         |
| <b>MATHEMATICS</b>  |   |            |
| MATH 1950   | CALCULUS I  | 5          |
| MATH 1960   | CALCULUS II   | 4          |
| MATH 1970   | CALCULUS III  | 4          |
| MATH 2350   | DIFFERENTIAL EQUATIONS  | 3          |
| STAT 3800   | APPLIED ENGINEERING PROBABILITY<br>AND STATISTICS   | 3          |
| Credit Hours Subtotal   |   | 19         |
| <b>ACE REQUIREMENTS</b>   |   |            |
| ACE 1: Writing  |   | 3          |
| Choose from the list of approved ACE 1 courses <sup>1</sup>   |   |            |
| ACE 2: Communication Skills   |   | 3          |
| Choose from the list of approved ACE 2 courses <sup>1</sup>   |   |            |
| ACE 3: Math/Stat Reasoning  |   |            |
| This requirement is satisfied by MATH 1950, MATH 1960,<br>MATH 1970, MATH 2350, or STAT 3800            |   |            |
| ACE 4: Science  |   |            |
| This requirement is satisfied by CHEM 1180, CHEM 1190,<br>PHYS 2110, BIOL 1020, GEOL 1010, or GEOL 1170 |   |            |
| ACE 5: Humanities   |   | 3          |
| Choose from the list of approved ACE 5 courses <sup>1</sup>   |   |            |
| ACE 6: Social Sciences  |   | 3          |
| Choose from the list of approved ACE 6 courses <sup>1</sup>   |   |            |
| ACE 7: Arts   |   | 3          |
| Choose from the list of approved ACE 7 courses <sup>1</sup>   |   |            |
| ACE 8: Ethics   |   |            |
| Choose from the list of approved ACE 8 courses <sup>1</sup>   |   |            |
| ACE 9: Global Awareness and Human Diversity   |   | 3          |
| Choose from the list of approved ACE 9 courses <sup>1</sup>   |   |            |
| ACE 10: Capstone Experience   |   |            |
| This requirement is satisfied by ENVE 402   |   |            |
| Credit Hours Subtotal:  |   | 21         |
| <b>Total Credit Hours</b>   |   | <b>125</b> |

<sup>1</sup> A list of approved ACE courses offered on the Omaha campus can be found here ([https://tes.collegesource.com/publicview/TES\\_publicview03\\_group\\_report.aspx?sid=12214&rid=1d4a5187-e01b-4f1f-aaa6-b0040e957167&aid=e4ff42df-9ddc-4416-a5dd-18e971d1c0e4&cgrid=5508](https://tes.collegesource.com/publicview/TES_publicview03_group_report.aspx?sid=12214&rid=1d4a5187-e01b-4f1f-aaa6-b0040e957167&aid=e4ff42df-9ddc-4416-a5dd-18e971d1c0e4&cgrid=5508)).

# Engineering Leadership Minor

## Description

### Overview and Purpose

Open to College of Engineering students only.

The engineering leadership minor provides College of Engineering students an opportunity to focus on building leadership, management, teamwork and interpersonal skills needed to solve many of our societal challenges. Courses provide developmental skills with experiential learning to enhance personal growth, improve practice, and provide frameworks for continued application of concepts in these areas. Courses explore strategies and skills for effective leadership in the engineering profession, and the working world, and for building relationships.

The minor includes leadership courses led by faculty in the College of Engineering and faculty in the Department of Agricultural Leadership, Education and Communication.

The minor contributes to the National Academy of Engineers call to expose engineering students to formal studies of leadership development (NAE, 2004) and the College of Engineering's mission to graduate "Complete Engineers." The leadership minor provides the framework around the technical skills and coursework to achieve the ABET Outcomes:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Admission

Open to students in the College of Engineering only.

## College Requirements

### College Admission

### College Entrance Requirements

Students must have high school credit for (one unit is equal to one high school year):

1. Mathematics – 4 units: 2 of algebra, 1 of geometry, and 1 of precalculus and trigonometry
2. English – 4 units
3. Natural sciences – 3 units that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management or computer science)
4. Foreign language – 2 units of a single foreign language
5. Social studies – 3 units

6. Students having a composite ACT score of 28 or greater (or equivalent SAT score) will be admitted to the College of Engineering even if they lack any one of the following: trigonometry, chemistry, or physics. Students without test scores who are missing a full unit of trigonometry/pre-calculus/calculus or chemistry or physics will be evaluated through College Review.

A total of 16 units is required for admission.

Engineering requires that student performance meet one of the following standards: composite ACT of 24, SAT of 1180, ACT Math subscore of 24, SAT Math subscore of 580, or a 3.5 cumulative GPA.

Any domestic first-year student who does not gain admission to Engineering but does gain admission to the University of Nebraska-Lincoln (UNL) will be reviewed through College Review. College Review is conducted through the College Review Committee which considers factors beyond standardized testing. Any first-year student who is not admitted through college review is placed in Pre-Engineering (PENG) with the Exploratory and Pre-Professional Advising Center (Explore Center). Students in the Explore Center can transfer to the College of Engineering once college admission requirements are met.

Students for whom English is not their language of nurture must meet the minimum English proficiency requirements of the University.

Students who lack entrance units may complete precollege training by Independent Study through the University of Nebraska-Lincoln Office of On-line and Distance Education, in summer courses, or as a part of their first or second semester course loads while in the Explore Center or other colleges at UNL.

Students should consult their advisor, their department chair, or Engineering Student Services (ESS) if they have questions on current policies.

## Other Admission Requirements

Students who transfer to the University of Nebraska-Lincoln from other accredited colleges or universities and wish to be admitted to the College of Engineering (COE) must meet COE first-year student entrance requirements, have a minimum cumulative GPA of 2.5, and be calculus-ready. Students not meeting either of these requirements must enroll in the Explore Center or another University college until they meet COE admission requirements. Students transferring from UNO, UNL, or UNK to the College of Engineering must be in good academic standing with their institution.

The COE accepts courses for transfer for which a C or better grade was received. Although the University of Nebraska-Lincoln accepts D grades from the University of Nebraska Kearney and the University of Nebraska Omaha, not all majors in the COE accept such low grades. Students must conform to the requirements of their intended major and, in any case, are strongly encouraged to repeat courses with a grade of C- or less.

Students who were previously admitted to COE and are returning to the College of Engineering must demonstrate a cumulative GPA of 2.5 to be readmitted to COE.

## College Degree Requirements

### Grade Rules

### Grade Appeals

In the event of a dispute involving any college policies or grades, the student should appeal to their instructor, and appropriate department chair or school director (in that order). If a satisfactory solution is not achieved, the student may appeal their case through the College Academic Appeals Subcommittee.

## Catalog Rule

Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted at the University of Nebraska-Lincoln. In consultation with advisors, a student may choose to follow a subsequent catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at Nebraska in the College of Engineering. Students must complete all degree requirements from a single catalog year. The catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Students who have transferred from a community college may be eligible to fulfill the requirements as stated in the catalog for an academic year in which they were enrolled at the community college prior to attending the University of Nebraska-Lincoln. # This decision should be made in consultation with the student's College of Engineering academic advising team (e.g., ESS professional advisor and the chief faculty advisor for the student's declared degree program). # The chief faculty advisor has the final authority for this decision. Eligibility is based on a) enrollment in a community college during the catalog year the student wishes to utilize, b) maintaining continuous enrollment of at least 12 credit hours per semester at the previous institution for at least 2 semesters, and c) continuous enrollment at the University of Nebraska-Lincoln within 1 calendar year from the student's last term at the previous institution. # Students must complete all degree requirements from a single catalog year and within the timeframe allowable for that catalog year.

## Requirements

The engineering leadership minor is an interdisciplinary program; providing course offerings through the College of Engineering (COE) and the Department of Agricultural Leadership, Education and Communication (ALEC) at the University of Nebraska - Lincoln (UNL). To successfully complete the minor, students are required to complete 18 credit hours in leadership and professional development; 9 of which come from engineering leadership and management courses. Many of the ALEC courses are available as online courses. All ALEC courses are taught at the UNL.

## Courses

| Code  | Title  | Credits  |
|---|--|----------|
| <b>ENGR Leadership &amp; Management Courses (9 credit hours required)</b> |  |          |
| ENGR 100  | INTERPERSONAL SKILLS FOR ENGINEERING LEADERS (ACE 2)               | 3        |
| ENGR 200  | PROFESSIONALISM & GLOBAL PERSPECTIVE (ACE 6 & 9)                   | 3        |
| ENGR 320  | LEADERSHIP, MANAGEMENT, AND ETHICS                                 | 3        |
| <b>Leadership Courses (9 credit hours required)</b>                       |  | <b>9</b> |
| Select one or two theory-based courses from the following:                |  |          |
| ALEC 202  | FOUNDATION OF LEADERSHIP THEORY & PRACTICE                         |          |
| ALEC 302  | DYNAMICS OF EFFECTIVE LEADERSHIP IN ORGANIZATIONS                  |          |
| ALEC 455  | DYNAMICS OF EFFECTIVE LEADERSHIP IN GROUPS & TEAMS <sup>1</sup>    |          |
| ALEC 477  | LEADERSHIP & MOTIVATION  |          |
| Select one or two application courses from the following:                 |  |          |
| ALEC 407  | SUPERVISORY LEADERSHIP   |          |
| ALEC 410  | ENVIRONMENTAL LEADERSHIP <sup>1</sup>                              |          |
| ALEC 422  | FACILITATION & PROJECT PLANNING <sup>1</sup>                       |          |
| ALEC 466  | LEADERSHIP & DIVERSITY IN ORGANIZATIONS & COMMUNITIES <sup>1</sup> |          |
| <b>Experiential Learning in Leadership (0 -3 cr hrs)</b>                  |  |          |

|                      |   |           |
|----------------------|---|-----------|
| ALEC 337             | INSTRUCTIONAL INTERNSHIP IN LEADERSHIP DEVELOPMENT <sup>2</sup> |           |
| <b>Total Credits</b> |   | <b>18</b> |

<sup>1</sup> Note that junior standing is required for these courses.

<sup>2</sup> Credit received for being an undergraduate teaching assistant at the selection of the instructor.

### Additional Minor Requirements

All courses must be completed with a Pass, or grade of C or higher.

Up to 6 credit hours may be taken as Pass/No Pass.

## Environmental Engineering Minor

### Grade Rules

#### C- and D Grades

All courses must be completed with a grade of D- or higher.

#### Pass/No Pass Limits

No course taken Pass/No Pass will be counted toward the minor.

| Code   | Title  | Credits    |
|--|--|------------|
| <b>Required Courses</b>                                  |  | <b>9</b>   |
| CIVE 321   | PRINCIPLES OF ENVIRONMENTAL ENGINEERING            |            |
| CIVE 351   | INTRODUCTION TO WATER RESOURCES ENGINEERING        |            |
| CIVE 420   | ENVIRONMENTAL ENGINEERING PROCESS DESIGN           |            |
| <b>Electives I (select one or two of the following):</b> |  | <b>3-6</b> |
| CIVE 419   | FLOW SYSTEMS DESIGN                                |            |
| CIVE 424   | SOLID WASTE MANAGEMENT ENGINEERING                 |            |
| CHME 4890  | AIR POLLUTION, ASSESSMENT AND CONTROL              |            |
| <b>Electives II (Select one or two of the following)</b> |  | <b>3-6</b> |
| ENVE 210   | FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING          |            |
| ENVE 322   | BIOLOGICAL PRINCIPLES OF ENVIRONMENTAL ENGINEERING |            |
| ENVE 410   | ENVIRONMENTAL FATE AND TRANSPORT                   |            |
| ENVE 430   | SUSTAINABLE DESIGN IN ENVIRONMENTAL ENGINEERING    |            |
| CIVE 321L  | ENVIRONMENTAL ENGINEERING LABORATORY               |            |
| CIVE 422   | POLLUTION PREVENTION: PRINCIPLES AND PRACTICES     |            |
| CIVE 425   | DESIGN OF WATER TREATMENT FACILITIES               |            |
| CIVE 430   | FUNDAMENTALS OF WATER QUALITY MODELING             |            |
| CIVE 452   | WATER RESOURCES DEVELOPMENT                        |            |
| CIVE 454   | HYDRAULIC ENGINEERING                              |            |
| CIVE 455   | NONPOINT SOURCE POLLUTION CONTROL ENGINEERING      |            |
| CIVE 458   | GROUNDWATER ENGINEERING                            |            |
| CIVE 475   | WATER QUALITY STRATEGY                             |            |

|                           |   |           |
|---------------------------|---|-----------|
| AREN 2110                 | THERMODYNAMICS FOR ARCHITECTURAL ENGINEERING            |           |
| BSEN 244                  | Thermodynamics and Living Systems (Lincoln campus only) |           |
| BSEN 441                  | Animal Waste Management (Lincoln campus only)           |           |
| BSEN 468                  | Wetlands (Lincoln campus only)                          |           |
| ENVN 4410                 | WETLAND ECOLOGY AND MANAGEMENT                          |           |
| <b>Total Credit Hours</b> |   | <b>18</b> |

## International Engineering Minor Description

This minor is for engineering majors ONLY.

This minor is designed to encourage and recognize undergraduate students who enhance their engineering education with courses and experiences consistent with the global nature of engineering and the economy.

The College of Engineering enables its students to participate in this approved minor subject to the following conditions:

1. A minor will not reduce or alter the existing course or degree requirements for students electing to pursue a minor.
2. A student's minor program must be organized and approved by an advisor prior to the submission of the senior check to the department chair or head.
3. The minor must be approved by the advisor, the department chair or head, the Dean, and the cognizant program offering the minor.
4. The College of Engineering will follow the "Plan A/B" format of the UNL College of Arts and Sciences in which a student pursuing a single minor must complete the "Plan A" requirements. A student pursuing a double (or greater) minor must fulfill either the "Plan A" or "Plan B" requirements for both minors depending on which plan is offered by the cognizant department.

## College Requirements

### College Admission

#### College Entrance Requirements

Students must have high school credit for (one unit is equal to one high school year):

1. Mathematics – 4 units: 2 of algebra, 1 of geometry, and 1 of precalculus and trigonometry
2. English – 4 units
3. Natural sciences – 3 units that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management or computer science)
4. Foreign language – 2 units of a single foreign language
5. Social studies – 3 units
6. Students having a composite ACT score of 28 or greater (or equivalent SAT score) will be admitted to the College of Engineering even if they lack any one of the following: trigonometry, chemistry, or physics. Students without test scores who are missing a full unit of trigonometry/pre-calculus/calculus or chemistry or physics will be evaluated through College Review.

A total of 16 units is required for admission.



Engineering requires that student performance meet one of the following standards: composite ACT of 24, SAT of 1180, ACT Math subscore of 24, SAT Math subscore of 580, or a 3.5 cumulative GPA.

Any domestic first-year student who does not gain admission to Engineering but does gain admission to the University of Nebraska-Lincoln (UNL) will be reviewed through College Review. College Review is conducted through the College Review Committee which considers factors beyond standardized testing. Any first-year student who is not admitted through college review is placed in Pre-Engineering (PENG) with the Exploratory and Pre-Professional Advising Center (Explore Center). Students in the Explore Center can transfer to the College of Engineering once college admission requirements are met.

Students for whom English is not their language of nurture must meet the minimum English proficiency requirements of the University.

Students who lack entrance units may complete precollege training by Independent Study through the University of Nebraska-Lincoln Office of On-line and Distance Education, in summer courses, or as a part of their first or second semester course loads while in the Explore Center or other colleges at UNL.

Students should consult their advisor, their department chair, or Engineering Student Services (ESS) if they have questions on current policies.

## Other Admission Requirements

Students who transfer to the University of Nebraska-Lincoln from other accredited colleges or universities and wish to be admitted to the College of Engineering (COE) must meet COE first-year student entrance requirements, have a minimum cumulative GPA of 2.5, and be calculus-ready. Students not meeting either of these requirements must enroll in the Explore Center or another University college until they meet COE admission requirements. Students transferring from UNO, UNL, or UNK to the College of Engineering must be in good academic standing with their institution.

The COE accepts courses for transfer for which a C or better grade was received. Although the University of Nebraska-Lincoln accepts D grades from the University of Nebraska Kearney and the University of Nebraska Omaha, not all majors in the COE accept such low grades. Students must conform to the requirements of their intended major and, in any case, are strongly encouraged to repeat courses with a grade of C- or less.

Students who were previously admitted to COE and are returning to the College of Engineering must demonstrate a cumulative GPA of 2.5 to be readmitted to COE.

## College Degree Requirements

### Grade Rules

### Grade Appeals

In the event of a dispute involving any college policies or grades, the student should appeal to their instructor, and appropriate department chair or school director (in that order). If a satisfactory solution is not achieved, the student may appeal their case through the College Academic Appeals Subcommittee.

## Catalog Rule

Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted at the University of Nebraska-Lincoln. In consultation with advisors, a student may choose to follow a subsequent catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at Nebraska in the College of Engineering. Students must complete all degree requirements from a single catalog year. The catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Students who have transferred from a community college may be eligible to fulfill the requirements as stated in the catalog for an academic year in which they were enrolled at the community college prior to attending the University of Nebraska-Lincoln.<sup>#</sup> This decision should be made in consultation with the student's College of Engineering academic advising team (e.g., ESS professional advisor and the chief faculty advisor for the student's declared degree program).<sup>#</sup> The chief faculty advisor has the final authority for this decision. Eligibility is based on a) enrollment in a community college during the catalog year the student wishes to utilize, b) maintaining continuous enrollment of at least 12 credit hours per semester at the previous institution for at least 2 semesters, and c) continuous enrollment at the University of Nebraska-Lincoln within 1 calendar year from the student's last term at the previous institution. <sup>#</sup> Students must complete all degree requirements from a single catalog year and within the timeframe allowable for that catalog year.

## Requirements for Minor Offered by Department Plan A (18 credits)

1. Twelve (12) credit hours of courses in international engineering and internationally related courses.

- a. A minimum of 3 credit hours must be ENGR 490 (<https://nextcatalog.unl.edu/search/?P=ENGR%20490>) Global Experiences or a 3-credit education abroad course from another University of Nebraska-Lincoln college (such as AGRI 310 (<https://nextcatalog.unl.edu/search/?P=AGRI%20310>) Study Tours in International Agriculture or BSAD 491 (<https://nextcatalog.unl.edu/search/?P=BSAD%20491>) International Studies in Business and Economics) or from another university. Substitution for ENGR 490 (<https://nextcatalog.unl.edu/search/?P=ENGR%20490>) with related COE courses, participation in a study abroad experience, or courses from another college or university must be pre-approved by the Engineering Student Services office. International students should meet this requirement in countries other than their own or the U.S.
- b. At least one of the following internationally-related economics, development, leadership, marketing, or trade courses:

| Code      | Title   | Credits |
|-----------|---|---------|
| AECN 346  | World Food Economics <sup>1</sup>                             | 3       |
| AECN 367  | Agricultural Development in Developing Countries <sup>1</sup> | 3       |
| AECN 420  | International Food and Agricultural Trade <sup>1</sup>        | 3       |
| ECON 3600 | INTRODUCTION TO INTERNATIONAL ECONOMICS                       | 3       |
| MGMT 414  | International Management <sup>1</sup>                         | 3       |

<sup>1</sup> This course is offered at UNL. Complete an Intercampus Application to enroll in this course through UNL.

1. a.
2. A maximum of 3 credits from special problems (projects) or honors thesis-type courses (e.g., departmental 3900, 3960, 3980, 3990, 4910, 4980, 4990 courses) may be used toward the 12-credit requirement.
3. Elective courses to complete the 12-credit requirement must be chosen from the list of courses maintained by the College of Engineering Student Services office.
4. A minimum of 3 credit hours, not including (a) through (c) above, must be in 2000-level courses or above.
5. A maximum of 6 credit hours may be taken Credit/No Credit.



6. Six (6) credit hours of modern language consisting of at least two courses. Entry-level modern language courses (such as the 5-credit 1010 and 1020 courses at the University of Nebraska Omaha) that are used to remove a University of Nebraska–Lincoln entrance deficiency in modern languages may not be used to satisfy this requirement. International students may not use modern language courses of origin in their native (first) language. Where modern language courses exceed 3 credits, a maximum of 3 total credits each will apply to the Plan A minor. These courses may not be taken Credit/No Credit.

Plan B (12 credits)

1. Nine (9) credit hours of courses in international engineering and internationally related courses.
- a. A minimum of 3 credit hours must be ENGR 490 (<https://nextcatalog.unl.edu/search/?P=ENGR%20490>) Global Experiences or a 3-credit education abroad course from another University of Nebraska college (such as AGRI 310 (<https://nextcatalog.unl.edu/search/?P=AGRI%20310>) Study Tours in International Agriculture or BSAD 491 (<https://nextcatalog.unl.edu/search/?P=BSAD%20491>) International Studies in Business and Economics) or from another university. Substitution for ENGR 490 (<https://nextcatalog.unl.edu/search/?P=ENGR%20490>) with related COE courses, participation in a study abroad experience, or courses from another college or university must be pre-approved by the Engineering Student Services office. International students should meet this requirement in countries other than their own or the U.S.
  - b. At least one of the following internationally related economics, development, leadership, marketing, or trade courses:
    - i.

| 1. Code   | Title  | Credits |
|-----------|--|---------|
| AECN 346  | World Food Economics <sup>1</sup>                                  | 3       |
| AECN 367  | Agricultural Development in Developing Countries <sup>1</sup>      | 3       |
| AECN 420  | International Food and Agricultural Trade <sup>1</sup>             | 3       |
| AECN 425  | Agricultural Marketing in a Multinational Environment <sup>1</sup> | 3       |
| ECON 3600 | INTRODUCTION TO INTERNATIONAL ECONOMICS                            | 3       |
| MGNT 414  | International Management <sup>1</sup>                              | 3       |

1. <sup>1</sup> This course is offered at UNL. Complete an Intercampus Application to enroll in this course through UNL.
1. a. i.
- b. A maximum of 3 credits from special problems (projects) or honors thesis type courses (e.g., departmental 3900, 3960, 3980, 3990, 4910, 4980, 4990 courses) may be used toward the 9 credit requirement.
  - c. Elective courses to complete the 9-credit requirement must be chosen from the list of courses maintained by the College of Engineering Student Services office.
  - d. A minimum of 3 credit hours, not including (a) through (c) above, must be in 2000-level courses or above.
  - e. A maximum of 6 credit hours may be taken Credit/No Credit.
2. Three (3) credit hours of modern language coursework. Entry-level modern language courses (such as the 5-credit 1010 and 1020 courses at the University of Nebraska) that are used to remove a University of Nebraska–Lincoln entrance deficiency in modern languages may not be used to satisfy this requirement. International students may not

use modern language courses of origin in their native (first) language. Where modern language courses exceed 3 credits, a maximum of 3 total credits each will apply to the Plan B minor. This course may not be taken Credit/No Credit.

Pre-Engineering

Two years of course work applicable to Bachelor of Science degrees in Agricultural Engineering, Biological Systems Engineering, and Mechanical Engineering are provided on the Scott Campus in Omaha.

The courses listed under each pre-engineering program are similar in content to equivalent courses at the University of Nebraska-Lincoln, allowing for maximum transferability of credit.

Students should select courses at UNO that meet degree requirements as stated in the Catalog of the institution to which they plan to transfer.

For more information, please call 402.554.3562

Programs Offered

- Pre-Agricultural Engineering (p. 632)
- Pre-Biological Systems Engineering (p. 633)
- Pre-Mechanical Engineering (p. 634)

Pre-Agricultural Engineering

Agricultural engineering (AGEN) is one of two engineering degree programs offered in the Department of Biological Systems Engineering at UNL. AGEN students emphasize coursework in one of three engineering areas: machine design, test, or soil and water resources. Thus, some agricultural engineers are involved in the analysis and design of field machinery systems and machine components through study of the principles of mechanical design, joining techniques, hydraulics, controls, ergonomics, and safety. Others are evaluating machine or mechanical system functional performance based on study of test procedure standards, measurements, data acquisition, electronic communication and statistics, and practical experience gained at the Nebraska Tractor Test Laboratory. Still others are analyzing and designing soil and water management-related infrastructure as aided through study of irrigation, drainage, erosion and runoff control techniques, crop tillage and cultivation practices, and natural resources management. Job opportunities for graduates are available in industry, public agencies, consulting, and private practice.

Students choosing the pre-agricultural engineering program on the Scott Campus in Omaha should be aware that there are five courses in the first two years (AGEN 100, AGEN 112, AGEN 225, AGEN 260, and MSYM 232); 12 total credit hours) for which there are no equivalents on the Scott Campus. AGEN 100 will be waived for students in the pre-agricultural engineering program who transfer to Lincoln to complete their degree program. This waiver doesn't reduce the minimum number of required credits to earn the degree.

Requirements

| Course                | Title  | Credits |
|-----------------------|--|---------|
| <b>First Year</b>     |  |         |
| <b>First Semester</b> |  |         |
| MATH 1950             | CALCULUS I                                   | 5       |
| CHEM 1180             | GENERAL CHEMISTRY I                          | 3       |
| CHEM 1184             | GENERAL CHEMISTRY I LABORATORY               | 1       |
| ENGR 100              | INTERPERSONAL SKILLS FOR ENGINEERING LEADERS | 3       |
| ENGR 10               | FRESHMAN ENGINEERING SEMINAR                 | 0       |

|                           |  |           |
|---------------------------|--|-----------|
| CSCI 2240                 | INTRODUCTION TO C PROGRAMMING  | 3         |
| <b>Credits</b>            |  | <b>15</b> |
| <b>Second Semester</b>    |  |           |
| MATH 1960                 | CALCULUS II  | 4         |
| CHEM 1190                 | GENERAL CHEMISTRY II   | 3         |
| CHEM 1194                 | GENERAL CHEMISTRY II LABORATORY                                      | 1         |
| PHYS 2110                 | GENERAL PHYSICS I - CALCULUS LEVEL                                   | 4         |
| ACE Elective <sup>1</sup> |  | 3         |
| <b>Credits</b>            |  | <b>15</b> |
| <b>Second Year</b>        |  |           |
| <b>First Semester</b>     |  |           |
| MATH 1970                 | CALCULUS III   | 4         |
| PHYS 2120                 | GENERAL PHYSICS-CALCULUS LEVEL                                       | 4         |
| MECH 223                  | ENGINEERING STATICS  | 3         |
| CONE 206                  | ENGINEERING ECONOMICS  | 3         |
| ECEN 211                  | ELEMENTS OF ELECTRICAL ENGINEERING                                   | 3         |
| ENGR 20                   | SOPHOMORE ENGINEERING SEMINAR  | 0         |
| <b>Credits</b>            |  | <b>17</b> |
| <b>Second Semester</b>    |  |           |
| MATH 2350                 | DIFFERENTIAL EQUATIONS   | 3         |
| MECH 373                  | ENGINEERING DYNAMICS   | 3         |
| ACE Elective <sup>1</sup> |  | 3         |
| MECH 200                  | ENGINEERING THERMODYNAMICS   | 3         |
| ENGL 3980                 | TECHNICAL WRITING ACROSS THE DISCIPLINES (ACE Elective) <sup>1</sup> | 3         |
| ACE Elective <sup>1</sup> |  | 3         |
| <b>Credits</b>            |  | <b>18</b> |
| <b>Total Credits</b>      |  | <b>65</b> |

Other courses available:

| Code                      | Title  | Credits |
|---------------------------|--|---------|
| BIOL 1020                 | PRINCIPLES OF BIOLOGY                          | 4       |
| CIVE 310                  | FLUID MECHANICS                                | 3       |
| STAT 3800                 | APPLIED ENGINEERING PROBABILITY AND STATISTICS | 3       |
| ACE Elective <sup>1</sup> |  | 3       |

<sup>1</sup> Ace elective: Selected from ACE elective (SLO 5, 6, 7, or 9) list.

<sup>2</sup> ENGL 3980: EPPE sophomore level placement or successful completion of ENGL 1160/ENGL 1164 required.

## Pre-Biological Systems Engineering

Biological Systems Engineering (BSEN) brings engineering to life by working with living systems and applying engineering, biology, and mathematics to improve lives and our world. Biological systems engineers are trained to solve problems in biomedical engineering, environmental and water resources engineering, and food and bioprocess engineering. Students who choose pre-biological systems engineering on the Scott Campus in Omaha, should be aware that there are three courses in the first two years (BSEN 100, BSEN 112, BSEN 225; six total credit hours) for which there are no equivalents on the Scott Campus. BSEN 100 will be waived for students in the pre-biological systems engineering program who transfer to Lincoln to complete their degree program. This waiver doesn't reduce the minimum number of required credits to earn the degree.

## Requirements

| Course                    | Title  | Credits   |
|---------------------------|--|-----------|
| <b>First Year</b>         |  |           |
| <b>First Semester</b>     |  |           |
| MATH 1950                 | CALCULUS I                                     | 5         |
| CHEM 1180                 | GENERAL CHEMISTRY I                            | 3         |
| CHEM 1184                 | GENERAL CHEMISTRY I LABORATORY                 | 1         |
| ENGR 100                  | INTERPERSONAL SKILLS FOR ENGINEERING LEADERS   | 3         |
| ENGR 10                   | FRESHMAN ENGINEERING SEMINAR                   | 0         |
| CSCI 2240                 | INTRODUCTION TO C PROGRAMMING                  | 3         |
| <b>Credits</b>            |  | <b>15</b> |
| <b>Second Semester</b>    |  |           |
| MATH 1960                 | CALCULUS II                                    | 4         |
| CHEM 1190                 | GENERAL CHEMISTRY II                           | 3         |
| CHEM 1194                 | GENERAL CHEMISTRY II LABORATORY                | 1         |
| PHYS 2110                 | GENERAL PHYSICS I - CALCULUS LEVEL             | 4         |
| ACE Elective <sup>1</sup> |  | 3         |
| <b>Credits</b>            |  | <b>15</b> |
| <b>Second Year</b>        |  |           |
| <b>First Semester</b>     |  |           |
| MATH 1970                 | CALCULUS III                                   | 4         |
| BIOL 1450                 | BIOLOGY I <sup>2</sup>                         | 5         |
| CHEM 2210                 | FUNDAMENTALS OF ORGANIC CHEMISTRY <sup>3</sup> | 4         |
| CHEM 2214                 | FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY   | 1         |
| MECH 223                  | ENGINEERING STATICS                            | 3         |
| ENGR 20                   | SOPHOMORE ENGINEERING SEMINAR                  | 0         |
| <b>Credits</b>            |  | <b>17</b> |
| <b>Second Semester</b>    |  |           |
| MATH 2350                 | DIFFERENTIAL EQUATIONS                         | 3         |
| MECH 373                  | ENGINEERING DYNAMICS                           | 3         |
| PHYS 2120                 | GENERAL PHYSICS-CALCULUS LEVEL                 | 4         |
| MECH 200                  | ENGINEERING THERMODYNAMICS                     | 3         |
| CONE 206                  | ENGINEERING ECONOMICS                          | 3         |
| <b>Credits</b>            |  | <b>16</b> |
| <b>Total Credits</b>      |  | <b>63</b> |

<sup>1</sup> ACE electives: Selected from ACE elective (SLO 5 through 9) list.

<sup>2</sup> BIOL 1450: Four of the five hours can be used in BSEN.

<sup>3</sup> CHEM 2210: Three of the four hours can be used in BSEN.

Other courses that can be used to meet BSEN requirements:

| Code      | Title  | Credits |
|-----------|--|---------|
| CIVE 310  | FLUID MECHANICS                                | 3       |
| MECH 200  | ENGINEERING THERMODYNAMICS                     | 3       |
| STAT 3800 | APPLIED ENGINEERING PROBABILITY AND STATISTICS | 3       |
| CHEM 3650 | FUNDAMENTALS OF BIOCHEMISTRY                   | 3       |
| CHEM 3654 | FUNDAMENTALS OF BIOCHEMISTRY LABORATORY        | 1       |

# Pre-Mechanical Engineering

## Description

Mechanical engineers are considered the “general practitioners” of engineering because their education is extremely broad and their services span many interdisciplinary technical, social environmental and economic problems. These engineers deal with a wide realm of motion, all forms of energy conversion and transmission; the flow of fluids and heat; the development, design and operation of machinery and equipment; material structure and properties; and transportation processes. Here, you’ll choose among three major areas: thermal-fluid science engineering, systems and design engineering, and materials science engineering. Your career could include research and development, design of equipment and systems, testing, plant and sales engineering, and management.

## Grade Requirements

A "C" or better is required in the following courses to be considered for the Mechanical Engineering bachelors degree

- MATH 1950
- MATH 1960
- MATH 1970
- PHYS 1180 & 1184
- MECH 223

## Requirements

| Course                                    | Title  | Credits   |
|---|--|-----------|
| <b>First Year</b>                         |  |           |
| <b>First Semester</b>                     |  |           |
| MATH 1950                                 | CALCULUS I   | 5         |
| CHEM 1180                                 | GENERAL CHEMISTRY I  | 3         |
| CHEM 1184                                 | GENERAL CHEMISTRY I LABORATORY   | 1         |
| Communication Elective:                   |  | 3         |
| ACE Elective <sup>1</sup>                 |  | 3         |
| ENGR 100<br>or CMST 2010<br>or CMST 2410  | INTERPERSONAL SKILLS FOR<br>ENGINEERING LEADERS<br>or INTERPERSONAL<br>COMMUNICATION<br>or SMALL GROUP COMMUNICATION<br>AND LEADERSHIP         | 3         |
| ENGR 10                                   | FRESHMAN ENGINEERING SEMINAR   | 0         |
| <b>Credits</b>                            |  | <b>18</b> |
| <b>Second Semester</b>                    |  |           |
| MATH 1960                                 | CALCULUS II  | 4         |
| CHEM 1190                                 | GENERAL CHEMISTRY II   | 3         |
| CHEM 1194                                 | GENERAL CHEMISTRY II LABORATORY  | 1         |
| PHYS 2110                                 | GENERAL PHYSICS I - CALCULUS LEVEL   | 4         |
| PHYS 1154                                 | GENERAL PHYSICS LABORATORY I   | 1         |
| CIST 1400<br>or CSCI 2240<br>or CIST 1600 | INTRODUCTION TO COMPUTER<br>SCIENCE I<br>or INTRODUCTION TO C<br>PROGRAMMING<br>or INTRODUCTION TO<br>PROGRAMMING USING PRACTICAL<br>SCRIPTING | 3         |
| <b>Credits</b>                            |  | <b>16</b> |
| <b>Second Year</b>                        |  |           |
| <b>First Semester</b>                     |  |           |
| MATH 1970                                 | CALCULUS III   | 4         |
| PHYS 2120                                 | GENERAL PHYSICS-CALCULUS LEVEL   | 4         |

|          |                                       |   |
|----------|---------------------------------------|---|
| MECH 223 | ENGINEERING STATICS                   | 3 |
| CONE 206 | ENGINEERING ECONOMICS                 | 3 |
| ECEN 211 | ELEMENTS OF ELECTRICAL<br>ENGINEERING | 3 |
| ENGR 20  | SOPHOMORE ENGINEERING SEMINAR         | 0 |

**Credits 17**

### Second Semester

|           |                             |   |
|-----------|-----------------------------|---|
| MATH 2350 | DIFFERENTIAL EQUATIONS      | 3 |
| MECH 200  | ENGINEERING THERMODYNAMICS  | 3 |
| MECH 325  | MECHANICS OF ELASTIC BODIES | 3 |
| MECH 373  | ENGINEERING DYNAMICS        | 3 |
| MATH 2050 | APPLIED LINEAR ALGEBRA      | 3 |

**Credits 15**

**Total Credits 66**

<sup>1</sup> ACE Elective: Choose from list. Flexible ACE electives include categories 5, 6, 7, and 9. Students must complete one from each category; for a total of four courses.

Other applicable courses available:

| Code                      | Title           | Credits |
|---------------------------|-----------------|---------|
| ACE elective <sup>1</sup> |                 | 9       |
| CIVE 310                  | FLUID MECHANICS | 3       |

# Robotics Engineering Minor

## Description

This interdisciplinary minor prepares students to understand, design, develop, and implement robotic systems. Robotic systems are composed of embedded systems, motor, sensors, actuators, and interfaces requiring an understanding of dynamics, control, sensing, artificial intelligence, human-robot interaction, and embedded computing and programming. Students will prepare for careers in robotic systems and related automated vehicle design, and for related graduate studies. **This minor is available to all majors. Consult with your advisor before declaring this minor.**

The robotics engineering minor is jointly administered by the:

- Electrical and Computer Engineering Department (ECE)
- School of Computing
- Mechanical and Materials Engineering Department (MME)

*Note that the College Entrance Requirements shown below apply only to students in the College of Engineering.*

## College Requirements

### College Admission

### College Entrance Requirements

Students must have high school credit for (one unit is equal to one high school year):

1. Mathematics – 4 units: 2 of algebra, 1 of geometry, and 1 of precalculus and trigonometry
2. English – 4 units
3. Natural sciences – 3 units that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management or computer science)
4. Foreign language – 2 units of a single foreign language
5. Social studies – 3 units

6. Students having a composite ACT score of 28 or greater (or equivalent SAT score) will be admitted to the College of Engineering even if they lack any one of the following: trigonometry, chemistry, or physics. Students without test scores who are missing a full unit of trigonometry/pre-calculus/calculus or chemistry or physics will be evaluated through College Review.

A total of 16 units is required for admission.

Engineering requires that student performance meet one of the following standards: composite ACT of 24, SAT of 1180, ACT Math subscore of 24, SAT Math subscore of 580, or a 3.5 cumulative GPA.

Any domestic first-year student who does not gain admission to Engineering but does gain admission to the University of Nebraska-Lincoln (UNL) will be reviewed through College Review. College Review is conducted through the College Review Committee which considers factors beyond standardized testing. Any first-year student who is not admitted through college review is placed in Pre-Engineering (PENG) with the Exploratory and Pre-Professional Advising Center (Explore Center). Students in the Explore Center can transfer to the College of Engineering once college admission requirements are met.

Students for whom English is not their language of nurture must meet the minimum English proficiency requirements of the University.

Students who lack entrance units may complete precollege training by Independent Study through the University of Nebraska-Lincoln Office of On-line and Distance Education, in summer courses, or as a part of their first or second semester course loads while in the Explore Center or other colleges at UNL.

Students should consult their advisor, their department chair, or Engineering Student Services (ESS) if they have questions on current policies.

## Other Admission Requirements

Students who transfer to the University of Nebraska-Lincoln from other accredited colleges or universities and wish to be admitted to the College of Engineering (COE) must meet COE first-year student entrance requirements, have a minimum cumulative GPA of 2.5, and be calculus-ready. Students not meeting either of these requirements must enroll in the Explore Center or another University college until they meet COE admission requirements. Students transferring from UNO, UNL, or UNK to the College of Engineering must be in good academic standing with their institution.

The COE accepts courses for transfer for which a C or better grade was received. Although the University of Nebraska-Lincoln accepts D grades from the University of Nebraska Kearney and the University of Nebraska Omaha, not all majors in the COE accept such low grades. Students must conform to the requirements of their intended major and, in any case, are strongly encouraged to repeat courses with a grade of C- or less.

Students who were previously admitted to COE and are returning to the College of Engineering must demonstrate a cumulative GPA of 2.5 to be readmitted to COE.

## College Degree Requirements

### Grade Rules

### Grade Appeals

In the event of a dispute involving any college policies or grades, the student should appeal to their instructor, and appropriate department chair or school director (in that order). If a satisfactory solution is not achieved, the student may appeal their case through the College Academic Appeals Subcommittee.

## Catalog Rule

Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted at the University of Nebraska-Lincoln. In consultation with advisors, a student may choose to follow a subsequent catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at Nebraska in the College of Engineering. Students must complete all degree requirements from a single catalog year. The catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Students who have transferred from a community college may be eligible to fulfill the requirements as stated in the catalog for an academic year in which they were enrolled at the community college prior to attending the University of Nebraska-Lincoln. # This decision should be made in consultation with the student's College of Engineering academic advising team (e.g., ESS professional advisor and the chief faculty advisor for the student's declared degree program). # The chief faculty advisor has the final authority for this decision. Eligibility is based on a) enrollment in a community college during the catalog year the student wishes to utilize, b) maintaining continuous enrollment of at least 12 credit hours per semester at the previous institution for at least 2 semesters, and c) continuous enrollment at the University of Nebraska-Lincoln within 1 calendar year from the student's last term at the previous institution. # Students must complete all degree requirements from a single catalog year and within the timeframe allowable for that catalog year.

## Grade Rules

### Pass/No Pass

No course taken Pass/No Pass will be counted toward the minor.

## Requirements

The robotics engineering minor consists of three core courses and three elective courses. When selecting electives, the student must take two courses outside of their major area of study. For example, a student in mechanical engineering might take an elective from the School of Computing and one from the Department of Electrical Engineering.

| Code  | Title  | Credits |
|---|--|---------|
| <b>Core Requirements</b>  |  |         |
| Select one course from each of the three following topic areas: |  | 9       |
| <b>Topic Area: Core Programming</b>                             |  |         |
| CSCE 155  | COMPUTER SCIENCE I (version A or E)                          |         |
| CSCE 156  | COMPUTER SCIENCE II  |         |
| ECEN 155E   | COMPUTER SCIENCE I: SYSTEMS ENGINEERING FOCUS                |         |
| ECEN 156  | COMPUTER SCIENCE II  |         |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (UNO course) <sup>1</sup> |         |
| <b>Topic Area: Controls</b>                                     |  |         |
| MECH 350  | INTRODUCTION TO DYNAMIC AND CONTROL OF ENGINEERING SYSTEMS   |         |
| ECEN 444  | LINEAR CONTROL SYSTEMS                                       |         |
| ECEN 491  | SPECIAL TOPICS IN ELECTRIC AND COMPUTER ENGINEERING IV       |         |
| <b>Topic Area: Embedded Systems</b>                             |  |         |
| ECEN 106  | MICROPROCESSOR APPLICATIONS                                  |         |
| ECEN 220  | INTRODUCTION TO EMBEDDED SYSTEMS                             |         |
| CSCE 336  | EMBEDDED SYSTEMS   |         |
| MECH 457  | MECHATRONIC SYSTEMS  |         |
| <b>Elective Requirements</b>                                    |  |         |

Select three of the following; two must be outside your department:

|                      |  |           |
|----------------------|--|-----------|
| ECEN 345             | MOBILE ROBOTICS I                                    |           |
| ECEN 400             | ELECTRONIC INSTRUMENTATION                           |           |
| ECEN 428             | POWER ELECTRONICS                                    |           |
| ECEN 433             | MICROPROCESSOR SYSTEM DESIGN                         |           |
| ECEN 435             | EMBEDDED MICROCONTROLLER DESIGN                      |           |
| ECEN 444             | LINEAR CONTROL SYSTEMS                               |           |
| ECEN 460             | LABVIEW PROGRAMMING                                  |           |
| ECEN 462             | COMMUNICATION SYSTEMS                                |           |
| ECEN 498             | SPECIAL TOPICS IN ELECTRICAL ENGINEERING IV          |           |
| CSCE 436             | ADVANCED EMBEDDED SYSTEMS                            |           |
| CSCE 439             | ROBOTICS ALGORITHMS APPLICATIONS                     |           |
| CSCE 473             | COMPUTER VISION                                      |           |
| CSCE 476             | INTRODUCTION TO ARTIFICIAL INTELLIGENCE <sup>1</sup> |           |
| CSCE 4XX             | (SPECIAL TOPICS COURSES ON ROBOTICS)                 |           |
| ECEN 345             | MOBILE ROBOTICS I                                    |           |
| ECEN 433             | MICROPROCESSOR SYSTEM DESIGN                         |           |
| ECEN 435             | EMBEDDED MICROCONTROLLER DESIGN                      |           |
| MECH 342             | KINEMATICS AND DYNAMICS OF MACHINERY                 |           |
| MECH 450             | MECHANICAL ENGINEERING CONTROL SYSTEMS DESIGN        |           |
| MECH 442             | INTERMEDIATE KINEMATICS                              |           |
| MECH 444             | INTERMEDIATE DYNAMICS OF MACHINERY                   |           |
| MECH 449             | ADVANCED DYNAMICS                                    |           |
| MECH 453             | ROBOTICS: KINEMATICS & DESIGN                        |           |
| MECH 458             | DIGITAL CONTROL OF MECHANICAL SYSTEMS                |           |
| MECH 488             | KINEMATICS AND MACHINE DESIGN LABORATORY             |           |
| <b>Total Credits</b> |  | <b>18</b> |

<sup>1</sup> On the Scott Campus in Omaha, similar courses being offered by CIST could be substituted.

## Construction Construction Degrees

The Charles W. Durham School of Architectural Engineering and Construction offers students an education that opens up a full range of professional opportunities in the construction industry. The two bachelor's degree options, Construction Engineering and Construction Management, are found under the Majors tab.

There is also Construction Management Minor, found under the Minors tab, which is available to engineering, architecture and business majors.

## Degrees Offered

- Construction Engineering, Bachelor of Science (p. 636)
- Construction Management, Bachelor of Science (p. 638)
- Construction Management Minor (p. 640)

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## Construction Engineering, Bachelor of Science

### Description

Construction engineering (CONE) is a program of the Charles W. Durham School of Architectural Engineering and Construction. The construction engineering major integrates engineering, construction and management courses. This program is designed for persons fulfilling the construction industry's need for licensed professional engineers. It resembles the construction management program but provides a greater emphasis on engineering, scientific, and technical courses to meet requirements for licensure as a professional engineer. The courses focus on the application of engineering principles to solve real-world construction problems. They include instruction in civil engineering, structural principles, material testing and evaluation, project management, computer-assisted design, 3D animation, sustainability, and graphic communication.

The Durham School Construction Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET, Inc.

### Program Educational Objectives (PEOs)

1. Professional Achievement: The Construction Engineering program prepares graduates to become Licensed Professional Engineers and Certified Professional Constructors.
2. Career Achievement: The Construction Engineering program prepares graduates to contribute to society by working in an occupation related to the architecture-engineering-construction industry.

Under the stimulus of increasing demand for global services, many Nebraska companies have expanded their reach well beyond U.S. borders. This demand gives the construction engineering graduate an unprecedented number of opportunities for employment—locally, nationally and internationally—and for pursuing an advanced degree at the University of Nebraska—Lincoln or elsewhere.

Construction engineers participate in the preparation of engineering and architectural documents, including specifications, which they translate into finished projects such as buildings for housing, commerce and industry, highways, railroads, waterways, airports, power plants, energy distribution systems, military bases and space center complexes. These projects involve thousands of details shared by a team of owners, architects, engineers, general constructors, specialty constructors, manufacturers, material suppliers, equipment distributors, regulatory bodies and agencies, labor resources and others. The constructor assumes responsibility for delivery of the completed project at a specified time and cost and also accepts associated legal, financial and management obligations. Because of the broad scope of the construction engineer's project responsibility, they must assure the project's constructability as well as its capability to be operated and maintained.

Construction engineering students are required to enroll in a set of courses specifically designed for a general construction education. Each student selects, with the guidance of an advisor, a set of approved electives. The program outlined below leads to the bachelor of science degree in construction engineering.

### Professional Admission Requirements

In order to be professionally admitted into the construction engineering program, students must complete at least 43 credit hours of courses listed in the first two years of the required curriculum with a minimum GPA of 2.5 for those major courses (not necessarily the cumulative GPA).

### Learning Outcomes

Graduates of the construction engineering program will have:



1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The above student outcomes have been approved by the ABET Engineering Area Delegation for use beginning with the 2019-20 academic year, and have been adopted by the faculty of the Charles W. Durham School of Architectural Engineering and Construction.

## Requirements

Students are required to enroll in a predetermined set of courses specifically designed for general construction education. Each student selects, with the approval of their advisor, a set of approved electives.

| Course                               | Title  | Credits   |
|--------------------------------------|--|-----------|
| <b>First Semester</b>                |  |           |
| CHEM 1180                            | GENERAL CHEMISTRY I  | 3         |
| CHEM 1184                            | GENERAL CHEMISTRY I LABORATORY   | 1         |
| ENGR 100<br>or CMST 1110             | INTERPERSONAL SKILLS FOR<br>ENGINEERING LEADERS<br>or PUBLIC SPEAKING FUNDS  | 3         |
| CONE 103                             | INTRODUCTION TO CONSTRUCTION<br>ENGINEERING                                  | 1         |
| CIST 1600                            | INTRODUCTION TO PROGRAMMING<br>USING PRACTICAL SCRIPTING                     | 3         |
| MATH 1950                            | CALCULUS I   | 5         |
| ENGR 10                              | FRESHMAN ENGINEERING SEMINAR   | 0         |
| <b>Credits</b>                       |  | <b>16</b> |
| <b>Second Semester</b>               |  |           |
| CNST 112                             | CONSTRUCTION COMMUNICATIONS  | 3         |
| MATH 1960                            | CALCULUS II  | 4         |
| PHYS 2110                            | GENERAL PHYSICS I - CALCULUS LEVEL   | 4         |
| PHYS 1154                            | GENERAL PHYSICS LABORATORY I <sup>1</sup>                                    | 1         |
| ACE Elective <sup>2</sup>            |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |
| <b>Third Semester</b>                |  |           |
| CONE 221                             | GEOMETRIC CONTROL SYSTEMS  | 3         |
| ENGR 220/JGEN 200<br>or<br>ENGL 3980 | TECHNICAL COMMUNICATION I<br><br>TECHNICAL WRITING ACROSS THE<br>DISCIPLINES | 3         |
| MATH 1970                            | CALCULUS III   | 4         |
| MECH 223                             | ENGINEERING STATICS  | 3         |
| PHYS 2120                            | GENERAL PHYSICS-CALCULUS LEVEL   | 4         |
| ENGR 20                              | SOPHOMORE ENGINEERING SEMINAR  | 0         |
| <b>Credits</b>                       |  | <b>17</b> |

### Fourth Semester

|                |  |           |
|----------------|--|-----------|
| CONE 206       | ENGINEERING ECONOMICS                            | 3         |
| CNST 225       | INTRODUCTION TO BUILDING<br>INFORMATION MODELING | 3         |
| MATH 2350      | DIFFERENTIAL EQUATIONS                           | 3         |
| MECH 325       | MECHANICS OF ELASTIC BODIES                      | 3         |
| MECH 373       | ENGINEERING DYNAMICS                             | 3         |
| <b>Credits</b> |  | <b>15</b> |

### Fifth Semester

|                |                                       |           |
|----------------|---------------------------------------|-----------|
| ECEN 211       | ELEMENTS OF ELECTRICAL<br>ENGINEERING | 3         |
| CIVE 341       | STRUCTURAL ANALYSIS<br>FUNDAMENTALS   | 3         |
| CIVE 342       | STRUCTURAL DESIGN FUNDAMENTALS        | 1         |
| CNST 241       | HORIZONTAL CONSTRUCTION               | 3         |
| CONE/CNST 378  | CONSTRUCTION ESTIMATING I             | 3         |
| CIVE 310       | FLUID MECHANICS                       | 3         |
| <b>Credits</b> |                                       | <b>16</b> |

### Sixth Semester

|                           |   |           |
|---------------------------|---|-----------|
| CIVE 331                  | INTRODUCTION TO GEOTECHNICAL<br>ENGINEERING       | 4         |
| CIVE 371                  | MATERIALS OF CONSTRUCTION                         | 3         |
| ECON 2200                 | PRINCIPLES OF ECONOMICS (MICRO) <sup>3</sup>      | 3         |
| STAT 3800                 | APPLIED ENGINEERING PROBABILITY<br>AND STATISTICS | 3         |
| ACE Elective <sup>2</sup> |   | 3         |
| <b>Credits</b>            |   | <b>16</b> |

### Seventh Semester

|                |  |           |
|----------------|--|-----------|
| CNST 420       | PROFESSIONAL PRACTICE AND ETHICS                   | 3         |
| CIVE 440       | REINFORCED CONCRETE DESIGN I                       | 3         |
| CNST 444       | CONSTRUCTION SITE SAFETY<br>MANAGEMENT             | 3         |
| CONE/CNST 476  | PROJECT BUDGETS AND CONTROLS                       | 3         |
| CONE/CNST 485  | CONSTRUCTION PLANNING,<br>SCHEDULING, AND CONTROLS | 3         |
| <b>Credits</b> |  | <b>15</b> |

### Eighth Semester

|                                 |                                      |            |
|---------------------------------|--------------------------------------|------------|
| CIVE 441                        | STEEL DESIGN I                       | 3          |
| CONE 489                        | CONSTRUCTION ENGINEERING<br>CAPSTONE | 3          |
| Technical Elective <sup>4</sup> |                                      | 3          |
| Design Elective <sup>4</sup>    |                                      | 3          |
| ACE Elective <sup>2</sup>       |                                      | 3          |
| <b>Credits</b>                  |                                      | <b>15</b>  |
| <b>Total Credits</b>            |                                      | <b>125</b> |

<sup>1</sup> PHYS 1154: PHYS 1164 is an acceptable substitute if taken with PHYS 2120.

<sup>2</sup> ACE elective: Choose one course from each ACE Student Learning Outcome (SLO) 5, 7 or 9 elective courses.

<sup>3</sup> ECON 2200 satisfies SLO area 6.

<sup>4</sup> See tables below for Design and Technical Elective options.



## Additional Major Requirements

### Grade Rules

#### C- and D Grades

All coursework must be of C grade level or higher to be credited toward graduation requirements or to be valid as a prerequisite for another course.

#### Electives

Students are required to enroll in a predetermined set of courses specifically designed for general construction education. Each student selects, with the approval of their advisor, a set of approved electives.

Technical electives are selected from the following list. One (3 credit hour) of the required two electives needs to be considered a design technical elective.

| Code                    | Title                          | Credits |
|-------------------------|--------------------------------|---------|
| <b>Design Electives</b> |                                |         |
| CONE 417                | FORMWORK SYSTEMS               | 3       |
| CONE 481                | HIGHWAY & BRIDGE CONSTRUCTION  | 3       |
| CONE 483                | SUPPORT OF EXCAVATION          | 3       |
| CIVE 443                | ADVANCED STRUCTURAL ANALYSIS   | 3       |
| CIVE 444                | STRUCTURAL DESIGN AND PLANNING | 3       |
| CIVE 446                | STEEL DESIGN II                | 3       |
| CIVE 447                | REINFORCED CONCRETE II         | 3       |
| CIVE 462                | HIGHWAY DESIGN                 | 3       |
| CIVE 468                | AIRPORT PLANNING AND DESIGN    | 3       |
| CIVE 472                | PAVEMENT DESIGN AND EVALUATION | 3       |

| Code                                   | Title   | Credits |
|--|---|---------|
| <b>Technical Electives</b>             |   |         |
| All previously listed Design Electives |   |         |
| CNST 305                               | BUILDING ENVIRONMENTAL TECHNICAL SYSTEMS I            | 3       |
| CNST 306                               | ELECTRICAL SYSTEMS                                    | 3       |
| CNST 379                               | CONSTRUCTION ESTIMATING II                            | 3       |
| CNST 405                               | MECHANICAL ESTIMATING                                 | 3       |
| CNST 406                               | ELECTRICAL ESTIMATING                                 | 3       |
| CNST 411                               | PROJECT ADMINISTRATION                                | 3       |
| CNST 415                               | MECHANICAL/ELECTRICAL PROJECT MANAGEMENT              | 3       |
| CNST 425                               | ALTERNATIVE PROJECT DELIVERY METHODS                  | 3       |
| CNST 434                               | THE DESIGN-BUILD PROJECT DELIVERY SYSTEM              | 3       |
| CNST 436                               | INTENT AND APPLICATION OF INTERNATIONAL BUILDING CODE | 3       |
| CNST 440                               | BUILDING INFORMATION MODELING (BIM) II                | 3       |
| CNST 442                               | HEALTHCARE DESIGN AND CONSTRUCTION                    | 3       |
| CONE 450                               | SUSTAINABLE CONSTRUCTION                              | 3       |
| CONE 466                               | HEAVY AND/OR CIVIL ESTIMATING                         | 3       |
| CNST 480                               | PRODUCTIVITY AND HUMAN FACTORS IN CONSTRUCTION        | 3       |
| CNST 486                               | CONSTRUCTION MANAGEMENT SYSTEMS                       | 3       |
| CNST 488                               | RESIDENTIAL CONSTRUCTION AND REAL ESTATE DEVELOPMENT  | 3       |
| CNST 495                               | INTERNSHIP  | 3       |

### ACE Requirements

The CONE program follows the University of Nebraska-Lincoln ACE general education requirements. Because of the specific needs of the program, several of these courses are specified in the curriculum. Please contact [DurhamSchool@unl.edu](mailto:DurhamSchool@unl.edu) (:durhamschool@unl.edu), if you are interested in more information about this program.

## Construction Management, Bachelor of Science

### Construction Management Durham School of Architectural Engineering and Construction

Construction management (CNST) is a complete undergraduate degree program available to students within the Charles W. Durham School of Architectural Engineering and Construction located at Nebraska Hall on the Lincoln City Campus and at the Peter Kiewit Institute (PKI) on the Scott Campus in Omaha. Construction is one of the largest and most diversified industries in the country, accounting for approximately four percent of the U.S. gross domestic product (GDP). The key professional in this vast enterprise is the “constructor,” a term given to leaders and managers in the construction industry who are responsible for planning, scheduling, and building the projects designed by architects and engineers. These highly-specialized efforts are indispensable in meeting the country’s growing need for new structures, infrastructure and environmental controls that are of high quality and are cost effective, efficient and sustainable.

Construction firms vary in size from large corporations to small proprietorships and partnerships. These are often classified according to the kind of construction work they do—general contractors, heavy and highway contractors, specialty contractors—including mechanical and electrical—and residential builders and developers. Many firms engage in more than one category of work. Some larger companies incorporate the architectural and engineering design functions as part of their role as a design/build firm. Collectively, constructors manufacture our entire built environment—buildings for housing, commerce and industry, highways, railroads, waterways, airports, power plants, energy distribution systems, military bases and space center complexes. Thus, the construction management field is broad, requiring a unique educational background for its professional practitioners.

Although the range of construction activities appears wide and diverse, the general education requirements for construction management are universal regardless of a particular firm’s area of specialization. Since construction is primarily a business enterprise, the graduate must have a sound background in business management and administration as well as an understanding of the fundamentals of architecture and engineering as they relate to project design and the actual construction process in the field. Professional expertise lies in the fields of construction science, methods and management. A working knowledge of structural design, mechanical and electrical systems, methods and materials, soil mechanics and construction equipment is also essential.

The construction management curriculum embraces a course of study in:

1. Construction project management from pre-design through commissioning.
2. Project life-cycle and sustainability.
3. Health and safety, accident prevention and regulatory compliance.
4. Law, contract documents administration and dispute prevention and resolution.
5. Materials, labor and methods of construction.
6. Finance and accounting principles.
7. Planning and scheduling.

8. Cost management including plan reading, quantity take offs and estimating.
9. Project delivery methods.
10. Leadership and managing people.
11. Business and communication skills.

## Program Educational Objectives

The following is a list of the Construction Management Program Educational Objectives (PEO) that graduates are expected to attain within a few years of graduation:

1. Develop construction project objectives and plans including delineation of scope, budget and schedule.
2. Select project participants and set performance requirements.
3. Maximize resource efficiency through judicious procurement and management of labor, materials and equipment.
4. Implement and complete construction activities through coordination and control of scheduling, contracting, estimating and cost control.
5. Develop effective communication protocols and mechanisms for resolving conflicts associated with the construction process.
6. Ensure quality and safety through design, measurement, analysis and control.

Educational standards and criteria were established by the construction faculty of The Charles W. Durham School of Architectural Engineering and Construction and approved by the Construction Industry Advisory Committee (CIAC) and ABET, the accrediting agency for the construction management program at the University of Nebraska–Lincoln.

## Professional Admission Requirements

Requirements for professional admission to the construction management degree program include: students must complete 28 semester hours, including the following courses with a C or better: MATH 1950, PHYS 1050 (or PHYS 1120 or PHYS 2120), ENGR 100 and at least one of ENGL 1160, ENGL 3980, ENGR 220, STAT 1530, or CNST 112. Additionally, a minimum cumulative GPA of 2.5 is required.

## Learning Outcomes

Graduates of the construction management program will have:

1. An ability to identify, formulate and solve broadly defined technical or scientific problems by applying knowledge of mathematics and science and/or technical topics to areas relevant to the discipline.
2. An ability to formulate or design a system, process, procedure or program to meet desired needs.
3. An ability to develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgment to draw conclusions.
4. An ability to communicate effectively with a range of audiences.
5. An ability to understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental and societal contexts.
6. An ability to function effectively on teams that establish goals, plan tasks, meet deadlines and analyze risk and uncertainty.

The above student outcomes have been approved by the ABET Applied and Natural Science Accreditation Commission for use beginning with the 2019-20 academic year, and have been adopted by the faculty of The Charles W. Durham School of Architectural Engineering and Construction.

## Grade Rules

C- and D Grades

All required and elective courses must be passed with a grade of C or better to be included in the 120 credit hours needed for degree completion.

## ACE Requirements

The CNST program follows the UNL ACE general education requirements. Because of the specific needs of the program, most of these courses are specified in the curriculum. Please contact [DurhamSchool@unl.edu](mailto:DurhamSchool@unl.edu) ([durhamschool@unl.edu](mailto:durhamschool@unl.edu)), if you are interested in more information about this program.

## Requirements

| Course  | Title   | Credits   |
|---|---|-----------|
| <b>First Semester</b>                                 |   |           |
| CNST 131  | INTRODUCTION TO THE CONSTRUCTION INDUSTRY                                 | 2         |
| ENGL 1160/1164  | ENGLISH COMPOSITION II  | 3         |
| ENGR 10   | FRESHMAN ENGINEERING SEMINAR  | 0         |
| ENGR 100<br>or CMST 1110                              | INTERPERSONAL SKILLS FOR ENGINEERING LEADERS<br>or PUBLIC SPEAKING FUNDS  | 3         |
| MATH 1950   | CALCULUS I  | 5         |
| ACE Elective <sup>1</sup>                             |   | 3         |
| <b>Credits</b>  |   | <b>16</b> |
| <b>Second Semester</b>                                |   |           |
| CNST 112  | CONSTRUCTION COMMUNICATIONS   | 3         |
| PHYS 1050<br>or PHYS 2120                             | INTRODUCTION TO PHYSICS <sup>2</sup><br>or GENERAL PHYSICS-CALCULUS LEVEL | 4         |
| Technical Writing (ENGR 220, ENGL 3980, or CIST 1600) |   | 3         |
| PHYS 1054<br>or PHYS 1164                             | INTRODUCTION TO PHYSICS LABORATORY<br>or GENERAL PHYSICS LABORATORY II    | 1         |
| STAT 1530   | ELEMENTARY STATISTICS <sup>2</sup>  | 3         |
| ACE Elective <sup>1</sup>                             |   | 3         |
| <b>Credits</b>  |   | <b>17</b> |
| <b>Third Semester</b>                                 |   |           |
| CONE 221  | GEOMETRIC CONTROL SYSTEMS   | 3         |
| CONE 206  | ENGINEERING ECONOMICS   | 3         |
| CNST 241  | HORIZONTAL CONSTRUCTION   | 3         |
| CNST 251  | CONSTRUCTION MATERIALS AND SPECIFICATIONS                                 | 3         |
| CNST 252  | CONSTRUCTION MATERIALS AND TESTING  | 3         |
| ENGR 20   | SOPHOMORE ENGINEERING SEMINAR   | 0         |
| <b>Credits</b>  |   | <b>15</b> |
| <b>Fourth Semester</b>                                |   |           |
| ACCT 2000   | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS <sup>2</sup>                    | 3         |
| CNST 225  | INTRODUCTION TO BUILDING INFORMATION MODELING                             | 3         |
| CNST 242  | VERTICAL CONSTRUCTION   | 3         |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) <sup>2</sup>                              | 3         |
| ACE Elective <sup>1</sup>                             |   | 3         |
| <b>Credits</b>  |   | <b>15</b> |
| <b>Fifth Semester</b>                                 |   |           |
| CNST 331  | STRUCTURAL MECHANICS  | 3         |
| CNST 305  | BUILDING ENVIRONMENTAL TECHNICAL SYSTEMS I                                | 3         |
| CNST/CONE 378   | CONSTRUCTION ESTIMATING I   | 3         |
| CNST 411  | PROJECT ADMINISTRATION  | 3         |

|   |   |            |
|---|---|------------|
| CNST 444  | CONSTRUCTION SITE SAFETY MANAGEMENT             | 3          |
| <b>Credits</b>  |   | <b>15</b>  |
| <b>Sixth Semester</b>   |   |            |
| CNST 332  | STRUCTURAL OPTIMIZATION                         | 3          |
| CNST 306  | ELECTRICAL SYSTEMS                              | 3          |
| CNST 379  | CONSTRUCTION ESTIMATING II                      | 3          |
| CONSTRUCTION TECHNICAL ELECTIVES or MKT 3310, MGMT 3490, ENTR 3710, or any RELU 3xxx-4xxx courses |   | 6          |
| <b>Credits</b>  |   | <b>15</b>  |
| <b>Seventh Semester</b>   |   |            |
| CNST 420  | PROFESSIONAL PRACTICE AND ETHICS                | 3          |
| CNST/CONE 476   | PROJECT BUDGETS AND CONTROLS                    | 3          |
| CNST/CONE 485   | CONSTRUCTION PLANNING, SCHEDULING, AND CONTROLS | 3          |
| CONSTRUCTION TECHNICAL ELECTIVE or MKT 3310, MGMT 3490, ENTR 3710, or any RELU 3xxx-4xxx course   |   | 3          |
| TECHNICAL ELECTIVE or MKT 3310, MGMT 3490, ENTR 3710, or any RELU 3xxx-4xxx course                |   | 3          |
| <b>Credits</b>  |   | <b>15</b>  |
| <b>Eighth Semester</b>  |   |            |
| CNST 480  | PRODUCTIVITY AND HUMAN FACTORS IN CONSTRUCTION  | 3          |
| CNST 489  | SENIOR CONSTRUCTION PROJECT                     | 3          |
| CONSTRUCTION TECHNICAL ELECTIVES or MKT 3310, MGMT 3490, ENTR 3710, or any RELU 3xxx-4xxx courses |   | 6          |
| <b>Credits</b>  |   | <b>12</b>  |
| <b>Total Credits</b>  |   | <b>120</b> |

<sup>1</sup> ACE elective: Choose one course from not yet satisfied ACE outcomes 5, 7, or 9

<sup>2</sup> PHYS 1120 or 2120 can be substituted for PHYS 1050. Credit for PHYS 1110 or 2110 can be applied as elective credit.

## Construction Management Minor

**This minor is for engineering, architecture and business majors ONLY.**

The College of Engineering enables its students to participate in this approved minor subject to the following conditions:

1. A minor will not reduce or alter the existing course or degree requirements for students electing to pursue a minor.
2. The minor program must be organized and approved by an advisor prior to the submission of the senior check to the department chair or head.
3. The minor must be approved by the advisor, the department chair or head, the dean, and the cognizant program offering the minor.
4. Minors on the Lincoln or Omaha campuses may be added by approval of the College of Engineering Curriculum Committee and faculty.
5. The minor requires taking one 3-credit course from each of the six required topics listed below for a total of 18 credit hours.

## Course Requirements

| Code  | Title                       | Credits  |
|---|-----------------------------|----------|
| <b>CHOOSE ONE COURSE FOR EACH REQUIREMENT</b> |                             |          |
| <b>1) Communications</b>                      |                             | <b>3</b> |
| CNST 112                                      | CONSTRUCTION COMMUNICATIONS | 3        |

|                                   |   |           |
|-----------------------------------|---|-----------|
| <b>2) Methods &amp; Materials</b> |   | <b>3</b>  |
| CNST 241                          | HORIZONTAL CONSTRUCTION                         | 3         |
| CNST 242                          | VERTICAL CONSTRUCTION                           | 3         |
| CNST 252                          | CONSTRUCTION MATERIALS AND TESTING              | 3         |
| <b>3) Building Systems</b>        |   | <b>3</b>  |
| CNST 251                          | CONSTRUCTION MATERIALS AND SPECIFICATIONS       | 3         |
| CNST 305                          | BUILDING ENVIRONMENTAL TECHNICAL SYSTEMS I      | 3         |
| CNST 306                          | ELECTRICAL SYSTEMS                              | 3         |
| <b>4) Estimating</b>              |   | <b>3</b>  |
| CNST 378                          | CONSTRUCTION ESTIMATING I                       | 3         |
| <b>5) Safety/Human Factors</b>    |   | <b>3</b>  |
| CNST 444                          | CONSTRUCTION SITE SAFETY MANAGEMENT             | 3         |
| CNST 480                          | PRODUCTIVITY AND HUMAN FACTORS IN CONSTRUCTION  | 3         |
| <b>6) Budgeting/Scheduling</b>    |   | <b>3</b>  |
| CNST 476                          | PROJECT BUDGETS AND CONTROLS                    | 3         |
| CNST 485                          | CONSTRUCTION PLANNING, SCHEDULING, AND CONTROLS | 3         |
| Credit hours Subtotal             |   | 18        |
| <b>Total Credit Hours</b>         |   | <b>18</b> |

## Grade Rules

### C- and D Grades

A grade of C or better is required for all courses in the minor.

### Pass/No Pass

All courses must be taken for a letter grade.

## Achievement-Centered Education Electives

College of Engineering majors who will complete their undergraduate degree program on the UNL (City or East Campus in Lincoln) or Scott Campus in Omaha must satisfy the general education requirements of the Achievement Centered Education (ACE) program at UNL. The ACE program contains 4 Institutional Objectives with 10 Student Learning Outcomes (SLO). ACE electives are associated with SLO 5 through 9, and consists of course work primarily from the humanities, fine arts, social sciences, civics, ethics, human and cultural diversity areas. A minimum of one 3-credit hour course is to be selected from each of the following listed SLO areas to satisfy student learning outcomes 5 through 9. Although some courses are listed in more than one area, no individual course can be utilized to satisfy more than one SLO area.

## Program Specific Notes

Please read the description under your specific major to find out more about flexible ACE requirements

### Architectural Engineering

-Flexible ACE electives **include 5, 6, 7 and 9**

-Students **must complete one from each category:** for a total of four courses

-PSYC 1010 ust be the ACE 6 if completing the **Lighting and Electrical** option

-Students must complete **ART 3770 (ACE 5 or 7) or 3780 (ACE 7)** as either an **ACE 5 or 7**, then must complete **one more course to fulfill the missing elective**

## Civil, Electrical, and Environmental Engineering

- Flexible ACE electives include **5, 6, 7, 8, and 9**

- Students must complete **one from each category**; for a total of five courses

## Computer Engineering

- Flexible ACE electives include **5, 6, 7 and 9**

- Students **must complete one from each category**; for a total of four courses

- Students must complete **ENGR 469** as their **ACE 8**

## Construction Engineering and Management

- Flexible ACE electives include **5, 7, and 9**

- Students **must complete one from each category**; for a total of three courses

- Students must complete **ECON 2200** to fulfill the **ACE 6** elective

- Students must complete **CONE 206** to fulfill the **ACE 8** elective

## Pre-Programs (Mechanical, Agricultural, and Biological Systems)

- Flexible ACE electives include **5, 6, 7 and 9**

- Students **must complete one from each category**; for a total of four courses

- Students must complete **CONE 206** to fulfill the **ACE 8** elective

## SLO - Area 5

| Code      | Title  | Credits |
|-----------|--|---------|
| ART 3770  | HISTORY OF ARCHITECTURE TO 1850 <sup>1</sup>                     | 3       |
| ENGL 1010 | INTRODUCTION TO GENRE STUDIES: PROSE                             | 3       |
| ENGL 1020 | INTRODUCTION TO GENRE STUDIES: POETRY, DRAMA, FILM               | 3       |
| ENGL 2250 | THE SHORT STORY  | 3       |
| ENGL 2310 | INTRODUCTION TO BRITISH LITERATURE I                             | 3       |
| ENGL 2320 | INTRODUCTION TO BRITISH LITERATURE II                            | 3       |
| ENGL 2350 | AFRICAN AMERICAN LITERATURE 1746-1939 <sup>1</sup>               | 3       |
| ENGL 2360 | AFRICAN AMERICAN LITERATURE 1940-PRESENT <sup>1</sup>            | 3       |
| ENGL 2410 | CRITICAL APPROACHES TO LITERATURE                                | 3       |
| ENGL 2420 | CRITICAL APPROACHES TO LANGUAGE STUDIES                          | 3       |
| ENGL 2450 | AMERICAN LITERATURE I  | 3       |
| ENGL 2460 | AMERICAN LITERATURE II   | 3       |
| ENGL 2470 | SURVEY OF NATIVE AMERICAN LITERATURE <sup>1</sup>                | 3       |
| FREN 3160 | INTRODUCTION TO FRENCH LITERATURE                                | 3       |
| GERM 3370 | GERMAN HISTORY FROM THE BEGINNINGS UNTIL THE EARLY MODERN PERIOD | 3       |
| HIST 1110 | AMERICAN HISTORY TO 1865   | 3       |
| HIST 1120 | AMERICAN HISTORY SINCE 1865                                      | 3       |
| HIST 2190 | THE MODERN MIDDLE EAST   | 3       |
| HIST 2510 | ANCIENT GREECE: BRONZE AGE TO CLASSICAL ERAS                     | 3       |

|           |   |   |
|-----------|---|---|
| HIST 2520 | ANCIENT HISTORY - ROME  | 3 |
| HIST 2620 | MODERN BRITAIN  | 3 |
| HIST 2710 | A HISTORY OF RUSSIA FROM KIEVAN RUS' TO THE CRIMEAN WAR             | 3 |
| HIST 2720 | RUSSIA: FROM THE CRIMEAN WAR TO THE PRESENT                         | 3 |
| HIST 4540 | MEDIEVAL EUROPE   | 3 |
| PHIL 1010 | INTRODUCTION TO PHILOSOPHY: MEANING OF LIFE <sup>1</sup>            | 3 |
| PHIL 2030 | INTRODUCTION TO ETHICS  | 3 |
| PHIL 3050 | ETHICAL THEORY <sup>1</sup>   | 3 |
| PHIL 3110 | HISTORY OF ANCIENT PHILOSOPHY                                       | 3 |
| PHIL 3130 | HISTORY OF MODERN PHILOSOPHY  | 3 |
| PHIL 3200 | PHILOSOPHY OF RELIGION  | 3 |
| PHIL 3210 | SOCIAL PHILOSOPHY <sup>1</sup>                                      | 3 |
| PHIL 3220 | PHILOSOPHY OF ART <sup>1</sup>                                      | 3 |
| PHIL 3400 | PHILOSOPHY OF NATURAL SCIENCE                                       | 3 |
| PHIL 3600 | EPISTEMOLOGY  | 3 |
| PHIL 3650 | PHILOSOPHY OF MIND  | 3 |
| PHIL 3700 | SPACE, TIME, AND REALITY  | 3 |
| RELI 2150 | HEBREW SCRIPTURES   | 3 |
| SPAN 3170 | SURVEY OF SPANISH LITERATURE I                                      | 3 |
| SPAN 3180 | INTRODUCTION TO SPANISH LITERATURE                                  | 3 |
| SPAN 3420 | LATIN AMERICAN CIVILIZATION   | 3 |
| WGST 2020 | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: HUMANITIES <sup>1</sup> | 3 |

<sup>1</sup> Multiple listing.

## SLO – Area 6

| Code      | Title   | Credits |
|-----------|---|---------|
| ANTH 1050 | INTRODUCTION TO ANTHROPOLOGY <sup>1</sup>                 | 3       |
| ANTH 3210 | CULTURES OF AFRICAN PEOPLE                                | 3       |
| ANTH 4210 | CULTURAL ANTHROPOLOGY                                     | 3       |
| CRCJ 1010 | SURVEY OF CRIMINAL JUSTICE                                | 3       |
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO) <sup>1</sup>              | 3       |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) <sup>1</sup>              | 3       |
| ENGR 200  | PROFESSIONALISM & GLOBAL PERSPECTIVE                      | 3       |
| ENGR 320  | LEADERSHIP, MANAGEMENT, AND ETHICS                        | 3       |
| FNBK 2280 | PERSONAL FINANCE  | 3       |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY                               | 4       |
| GEOG 4010 | CONSERVATION OF NATURAL RESOURCES <sup>1</sup>            | 3       |
| GEOG 4120 | URBAN GEOGRAPHY   | 3       |
| GERO 2000 | INTRODUCTION TO GERONTOLOGY                               | 3       |
| MGMT 4040 | MANAGING BEHAVIOR IN ORGANIZATIONS                        | 3       |
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT <sup>1</sup> | 3       |
| PSCI 3120 | THE AFRICAN AMERICAN EXPERIENCE IN POLITICS <sup>1</sup>  | 3       |
| PSCI 3160 | POLITICAL PARTIES   | 3       |
| PSCI 3170 | INTEREST GROUPS   | 3       |
| PSCI 3180 | CAMPAIGNS AND ELECTIONS                                   | 3       |
| PSCI 4030 | THE PRESIDENCY  | 3       |

|           |                                    |   |
|-----------|------------------------------------|---|
| PSYC 1010 | INTRODUCTION TO PSYCHOLOGY I       | 3 |
| PSYC 3450 | SOCIAL PSYCHOLOGY                  | 3 |
| SOC 1010  | INTRODUCTORY SOCIOLOGY             | 3 |
| SOC 2100  | SOCIAL PROBLEMS <sup>1</sup>       | 3 |
| SOC 2150  | SOCIOLOGY OF FAMILIES <sup>1</sup> | 3 |

<sup>1</sup> Multiple listing.**SLO – Area 7**

| Code      | Title  | Credits |
|-----------|--|---------|
| ART 1100  | FOUNDATION: DRAWING                          | 3       |
| ART 2050  | SURVEY OF WESTERN ART HISTORY I              | 3       |
| ART 2060  | SURVEY OF WESTERN ART HISTORY II             | 3       |
| ART 3770  | HISTORY OF ARCHITECTURE TO 1850 <sup>1</sup> | 3       |
| ART 3780  | HISTORY OF ARCHITECTURE SINCE 1850           | 3       |
| MUS 1070  | MUSIC OF THE PEOPLE: ROCK AND POP            | 3       |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD <sup>1</sup>   | 3       |
| MUS 1090  | MUSIC APPRECIATION                           | 3       |
| MUS 1100  | MUSIC OF THE PEOPLE: JAZZ                    | 3       |
| MUS 2550  | MUSIC HISTORY I                              | 3       |
| MUS 2560  | MUSIC HISTORY II                             | 3       |
| PHIL 3220 | PHILOSOPHY OF ART <sup>1</sup>               | 3       |
| THEA 1010 | THEATRE APPRECIATION                         | 3       |
| WRWS 1500 | INTRODUCTION TO CREATIVE WRITING             | 3       |

<sup>1</sup> Multiple listing.**SLO – Area 8**

| Code      | Title   | Credits |
|-----------|---|---------|
| BIOL 1330 | ENVIRONMENTAL BIOLOGY                                     | 3       |
| BLST 1000 | INTRODUCTION TO BLACK STUDIES <sup>1</sup>                | 3       |
| CMST 4510 | PERSUASION AND SOCIAL INFLUENCE                           | 3       |
| CNST 420  | PROFESSIONAL PRACTICE AND ETHICS                          | 3       |
| CONE 206  | ENGINEERING ECONOMICS                                     | 3       |
| ENGR 320  | LEADERSHIP, MANAGEMENT, AND ETHICS                        | 3       |
| ENGR 469  | TECHNOLOGY, SCIENCE AND CIVILIZATION                      | 3       |
| NAMS 1100 | INTRODUCTION TO NATIVE AMERICAN STUDIES <sup>1</sup>      | 3       |
| PHIL 1010 | INTRODUCTION TO PHILOSOPHY: MEANING OF LIFE <sup>1</sup>  | 3       |
| PHIL 1020 | CONTEMPORARY MORAL PROBLEMS <sup>1</sup>                  | 3       |
| PHIL 1030 | INTRODUCTION TO PHILOSOPHY: BRAINS, MINDS, AND MACHINES   | 3       |
| PHIL 3050 | ETHICAL THEORY <sup>1</sup>                               | 3       |
| PHIL 3210 | SOCIAL PHILOSOPHY <sup>1</sup>                            | 3       |
| PSCI 1100 | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT <sup>1</sup> | 3       |

<sup>1</sup> Multiple listing.**SLO - Area 9**

| Code      | Title                                      | Credits |
|-----------|--|---------|
| ANTH 1050 | INTRODUCTION TO ANTHROPOLOGY <sup>1</sup>  | 3       |
| BLST 1000 | INTRODUCTION TO BLACK STUDIES <sup>1</sup> | 3       |

|           |   |   |
|-----------|---|---|
| BLST 2420 | AFRICAN-AMERICAN HISTORY II: 1865-1954                                    | 3 |
| CMST 3530 | INTERCULTURAL COMMUNICATION & POWER                                       | 3 |
| CRCJ 3380 | POWER, PERCEPTION, AND PUNISHMENT   | 3 |
| ECON 3600 | INTRODUCTION TO INTERNATIONAL ECONOMICS                                   | 3 |
| ENGL 2350 | AFRICAN AMERICAN LITERATURE 1746-1939 <sup>1</sup>                        | 3 |
| ENGL 2360 | AFRICAN AMERICAN LITERATURE 1940-PRESENT <sup>1</sup>                     | 3 |
| ENGL 2470 | SURVEY OF NATIVE AMERICAN LITERATURE <sup>1</sup>                         | 3 |
| ENGR 200  | PROFESSIONALISM & GLOBAL PERSPECTIVE                                      | 3 |
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY  | 3 |
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY   | 3 |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY   | 4 |
| GEOG 3070 | GEOGRAPHY OF LATIN AMERICA  | 3 |
| GEOG 4010 | CONSERVATION OF NATURAL RESOURCES <sup>1</sup>                            | 3 |
| HIST 1000 | WORLD HISTORY TO 1500   | 3 |
| HIST 1010 | WORLD HISTORY SINCE 1500  | 3 |
| HIST 2480 | HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT                      | 3 |
| HIST 2810 | HISTORY OF CHINA: FROM THE MANCHU CONQUEST TO THE PRESENT                 | 3 |
| HIST 2820 | JAPAN: FROM WARRING STATES TO THE MODERN DAY                              | 3 |
| HIST 2920 | HISTORY OF MODERN AFRICA  | 3 |
| HIST 4400 | HISTORY OF NATIVE AMERICAN INDIGENOUS PEOPLES                             | 3 |
| MGMT 4150 | GLOBAL BUSINESS MANAGEMENT  | 3 |
| MUS 1080  | MUSIC OF THE PEOPLE:THE WORLD <sup>1</sup>                                | 3 |
| NAMS 1100 | INTRODUCTION TO NATIVE AMERICAN STUDIES <sup>1</sup>                      | 3 |
| PHIL 1020 | CONTEMPORARY MORAL PROBLEMS <sup>1</sup>                                  | 3 |
| PHIL 3200 | PHILOSOPHY OF RELIGION  | 3 |
| PSCI 2210 | INTRODUCTION TO INTERNATIONAL RELATIONS                                   | 3 |
| PSCI 3120 | THE AFRICAN AMERICAN EXPERIENCE IN POLITICS <sup>1</sup>                  | 3 |
| RELI 1010 | INTRODUCTION TO WORLD RELIGIONS   | 3 |
| SOC 2100  | SOCIAL PROBLEMS <sup>1</sup>  | 3 |
| SOC 2150  | SOCIOLOGY OF FAMILIES <sup>1</sup>  | 3 |
| SOC 3700  | INTRODUCTION TO LGBTQ STUDIES   | 3 |
| SOC 4310  | SOCIOLOGY OF SEXUALITIES  | 3 |
| SPAN 3410 | SPANISH CIVILIZATION  | 3 |
| SPAN 3420 | LATIN AMERICAN CIVILIZATION   | 3 |
| WGST 2010 | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: SOCIAL AND BEHAVIORAL SCIENCE | 3 |
| WGST 2020 | INTRODUCTION TO WOMEN'S AND GENDER STUDIES: HUMANITIES <sup>1</sup>       | 3 |

<sup>1</sup> Multiple listing.



# College of Information Science & Technology

## Our Mission

We believe in the power of opportunity through technology—the kind that lifts people up, sparks innovation and transforms lives. The College of Information Science and Technology actively cultivates a thriving community of learners and innovators. Together we create pathways for social mobility and transformational growth in education and research, ensuring that everyone has a chance to contribute, succeed, and make our world better than we found it.

## Our Vision

Transforming lives through career-relevant computing education and impactful research for the public good.

## General Information

### Overview of Programs

The College is organized into three major units that manage the degree programs: the Department of Computer Science (CS), the Department of Information Systems and Quantitative Analysis (ISQA), and the School of Interdisciplinary Informatics (Si2).

The College of IS&T offers six undergraduate degree programs:

1. BS in Artificial Intelligence
2. BS in Applied Computing & Informatics
3. BS in Bioinformatics
4. BS in Computer Science
5. BS in Cybersecurity
6. BS in Management Information Systems

The College of IS&T also offers undergraduate minors across many of these content areas.

## Accreditation/External Designation Information

| Major                          | Degree | Accreditation Body |
|--------------------------------|--------|--------------------|
| Computer Science               | BS     | ABET               |
| Management Information Systems | BS     | ABET               |
| Cybersecurity                  | BS     | NSA CAE-CD, CAE-CO |

## College Contact Information

Dean's Office: 402.554.2380  
Advising: 402.554.3819

**Program Website (<http://www.ist.unomaha.edu>)**

## Admission Requirements for the College of IS&T

Application deadlines for the College of Information Science & Technology are as follows:

Fall Semester - First day of fall semester classes  
Spring Semester - First day of spring semester classes

### Summer Sessions - July 1

Incoming first year students must meet general university admission requirements to be admitted into the College of Information Science & Technology.

Transfer admission from other colleges or universities: Students may transfer into the College of Information Science & Technology from other institutions by completing the application process described above and meeting the minimum cumulative grade point average (GPA) of 2.5 (on a 4.00 scale) with a minimum of 12 credit hours.

## Academic Requirements for Degrees in the College of IS&T

### Number of Hours to Graduate

A minimum of 120 credit hours is required for a Bachelor of Science degree in the College of IS&T.

### Minimum GPA

A GPA of 2.5 or higher is required to graduate with a Bachelor of Science degree from the College of IS&T.

## Transfer Credit Policy

A maximum of 64 credit hours are accepted from an accredited community college. A minimum grade of C- is required to transfer credits toward College of IS&T degree programs with the exception of business courses and the equivalent of UNO's CIST 1400 and CSCI 1620, which require a grade of C or better.

### Unacceptable Credits

Courses such as ENGL 1090, ENGL 1100, MATH 1210, and orientation courses in other colleges or divisions may not be counted as part of the minimum 120 credit hours for College of IS&T degree programs. The course, US 1010 Critical Thinking and Problem Solving Skills for the Modern Day Student, can, however, be counted as elective credit if taken within the first 30 hours of the degree program. A maximum of four credit hours of different Physical Education Activities (PEA) courses may be applied toward the general elective area.

### Retroactive Credit Policy

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

### Advanced Placement Credits

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

### Military Credit

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

### International Baccalaureate (IB) Credit

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Placement Exams and Credit by Department Policies/Practices

<https://nextcatalog.unomaha.edu/aboutuno/student-services-a-z/testing-center/> (p. 63)



## Residency Requirement

Thirty of the last 36 credit hours must be University of Nebraska at Omaha courses.

## Quality of Work

Students in a College of IS&T undergraduate program must obtain a grade of C- or better in each class for the purpose of meeting General Education, College of Information Science & Technology (IS&T), and Departmental requirements for College of IS&T degrees with the exception of CIST 1400 and CSCI 1620, which require a minimum grade of C. Programs may have additional quality of work requirements.

## Good Academic Standing Policy

A minimum cumulative grade point average (GPA) of 2.5 is required by the College of Information Science & Technology.

## Student Academic Course Load

Students shall not carry 18 or more semester hours of work during the fall semester, 19 or more semester hours during the spring semester and 12 semester hours during the summer sessions unless they have maintained an average of "B" (3.0) in a regular 15-hour load during the preceding semester. Permission to register for additional semester hours should be obtained from the student's academic advisor. For more details, see the University Enrollment Policies (p. 30).

## Credit/No Credit (CR/NC) Grades

Courses required for College of IS&T undergraduate programs may be taken on a Credit/No Credit basis as described by the University Policy (p. 70) with the following limitations:

- A minimum grade of C- is required in to be awarded Credit in undergraduate courses applied to IS&T undergraduate major, minor, or certificate program requirements.
- Credit/No Credit may not be used for completion of CIST1400 or CSCI1620 in any IS&T undergraduate major, minor, or certificate.
- A maximum of nine credit hours taken on a Credit/No Credit basis can be applied to College of IS&T undergraduate major requirements, excluding free electives and general education courses not specifically required by the major. Use of Credit/No Credit for free elective and unrestricted general education courses in an IS&T undergraduate degree program of study are subject to general University limits.
- A maximum of three hours taken as Credit/No Credit can be applied to meet graduation requirements for any IS&T minor or undergraduate certificate.

Individual majors, minors, or certificate programs within IS&T may place further limitations on the use of Credit/No Credit to meet program requirements. Any such restrictions must be published in the corresponding catalog entry for each program, and the College policy applies in the absence thereof. Students should consult with their academic advisors if they have questions about Credit/No Credit within specific programs.

Students taking IS&T-based courses that are majoring in degree programs outside of IS&T are encouraged to consult with advising staff from their major to determine whether an IS&T course taken as Credit/No Credit can be used towards their graduation requirements.

For deadlines related to electing CR/NC and other restrictions relative to its use based on a student's class standing, see the campus policy.

## Completion of an Incomplete Grade

To receive an incomplete, students must contact their instructor prior to the end of the semester, request a grade of incomplete, and make arrangements to complete the work. The rules which govern the issuance of an incomplete are as follows:

1. The grade "I" is used by an instructor at the end of a semester or summer session to designate incomplete work in a course. It is given when a student, due to circumstances such as illness, military service, hardship, or death in the immediate family, is unable to complete the requirements of the course in the term in which the student is registered for credit. Incompletes will only be given if the student has already substantially completed the major requirements of the course.
2. Each instructor will judge each situation. The instructor will document the incomplete work and the conditions for removal of the incomplete grade, provide a copy to the student, and file this with the Assistant Dean for Student Success. If the instructor is at the University at the time of removal, they will supervise the makeup work and report the permanent grade.
3. In the event the instructor is not available at the time of the student's application for removal of an incomplete, the department chairperson will supervise the removal of the incomplete and turn in the permanent grade for the student.
4. A student shall have no longer than the end of the next regular semester following receipt of the "I" to remove the incomplete. After that time, the "I" will automatically become a "W," or such other grade specified by the instructor depending on the amount and quality of the coursework previously completed. Exceptions to this rule will be permitted if initiated by the student and approved by the instructor, department chairperson, and dean. Exceptions to this rule will be made only in response to circumstances over which the student has no control, and these must be detailed.
5. In registering for courses, students receiving one or more "I" grades from the previous semester should take into account the time needed to complete the required work and plan their schedules accordingly.

## Repeatable Grades/Courses

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Grade Appeal Policy and Process

#The Nebraska Regents By-Laws and the College of Information Science & Technology Policies and Procedures require a process that allows a student to appeal a final course grade. This process allows a student to initiate a grade appeal when the student believes a course grade was awarded prejudicially or capriciously.

*Capricious* means that the instructor acted with a sudden change of mind without notifying students about criteria and/or requirements which ultimately affected the student's grade. That is, the instructor acted impulsively and unpredictably.

*Prejudicial* means the instructor treated the student differently, apart from the norm, thereby detrimentally affecting the student's grade.

The student MUST provide specific information regarding how the instructor behaved in a capricious or prejudicial manner in awarding the student's grade.

Individuals who believe that their grade in a particular course does not properly reflect their course performance should first contact the instructor to determine the rationale for the grade or if there was an error in reporting. Consultation with the instructor should take place before taking any formal action in regard to a grade appeal. The student must document

in writing all conversations with (or attempts to contact) the instructor about the student's grade.

After the instructor has provided the rationale for the grade in question and has indicated that no error in reporting was made, the individual may then wish to petition the department or school for reconsideration. In such instances, the student should contact the department chair or school director to forward the grade appeal to the appropriate Undergraduate Program Committee (UPC), which will evaluate the grade appeal. If the instructor whose grade is being appealed is a member of the Undergraduate Program Committee, then they will recuse themselves from the grade appeal deliberation. The Undergraduate Program Committee will schedule a Student Grade Appeal Hearing within thirty (30) calendar days following the receipt of the individual's grade appeal. If the appeal hearing must be held after more than thirty (30) calendar days since the filing, the Dean or their designee must approve of the delay and the Dean or their designee shall provide a written explanation to the student and instructor, as to the reason(s) for the delay.

#At the hearing the student may present: the syllabus for the course, materials which were used to ascertain grades in the course (exams, papers, and so on), oral or written statements from students of the instructor's classes—past and/or present, the oral testimony or written statements of faculty and administrative employees, the testimony or written statement of any other person who the UPC Chair allows to provide information. Extraneous, immaterial or irrelevant materials, as determined by the UPC Chair, may NOT be presented.

#At the hearing the instructor may present: the syllabus for the course, materials that were used to determine grades in the course, a spreadsheet containing all recorded grades for all class members (student names and ID #s MUST be removed), oral or written statements from students members of the instructor's classes—past and/or present, the oral testimony or written statements of faculty and administrative employees, the testimony or written statement of any other person who the UPC Chair allows to provide information. Extraneous or irrelevant materials, as determined by the UPC Chair, may NOT be presented.

Upon completion of the hearing, all present are excused except the members of the Undergraduate Program Committee. Further discussion may follow. A vote to support or deny the grade appeal is made by secret ballot. The UPC Chair counts the votes in view of the committee and votes only if necessary to break a tie. The majority prevails. The ballots are destroyed immediately, and the vote count may be revealed ONLY to the IS&T Associate Dean for Academic and Faculty Affairs.

The Undergraduate Program Committee has the authority to change the grade awarded to the student. If the grade is changed, there will be no permanent record of the original grade. The IS&T Associate Dean for Academic and Faculty Affairs shall contact the UNO Registrar to officially request the grade change.

The student and instructor will be informed in writing by the UPC Chair of the decision made by the Committee.

#If an individual believes that the department or school action did not comply with the due process procedures or did not provide legitimate relief, he or she may petition the Academic Committee in the College of Information Science & Technology. The Academic Committee is the appellate body for grade appeals after a student has received a decision at the department or school level. Students wishing to appeal a grade to the IS&T Academic Committee should contact the Associate Dean for Academic and Faculty Affairs in the IS&T Dean's Office, who will forward the grade appeal to the Committee. If the instructor whose grade is being appealed is a member of the IS&T Academic Committee, then he or she will recuse themselves from the grade appeal deliberation. The process followed for this appeal mirrors that followed by the Undergraduate Program Committee.

## Academic Amnesty

**POLICY STATEMENT:** Academic Amnesty provides relief from a poor academic record acquired within the University of Nebraska system by excluding substandard coursework with a final grade of "D" or "F" from a student's cumulative grade point average (GPA) calculation. Academic Amnesty will not remove course(s) or grade(s) from the transcript but once granted, will not count as part of the overall GPA.

### Eligibility:

To be eligible for Academic Amnesty, students must:

- Have been out of the Nebraska system for at least one calendar year (12-month period).
- Have substandard coursework ("F" or "D" grades) earned within the University of Nebraska system (UNO, UNL, UNK, UNMC) prior to the year out (substandard grades earned after the year out will not be included in the Academic Amnesty contract).
- Be admitted as a degree-seeking student at the University of Nebraska.

### Amnesty Requirements:

- Academic Amnesty will begin with the first course(s) taken upon return to UNO.
- Students may apply for Academic Amnesty at any time after taking the one-year break.
- After returning from the one-year break, demonstrate academic success in new UNO coursework.  
Academic success may be demonstrated by one of the following:
  - Completing at least 12 semester hours (simultaneous or sequential) with a minimum of 3.0 cumulative GPA,
  - Completing at least 24 semester hours (simultaneous or sequential) with a minimum of 2.5 cumulative GPA.
- Students must maintain continuous enrollment (at least six (6) semester hours completed within any 12-month period).
- Students will work with their academic advisor to select the coursework to be amnestied.
- Students must inform an academic advisor when the Academic Amnesty requirements are met.

### Notes:

- All amnestied coursework will remain on the student's academic record (transcript); however, the courses will not be included in calculation of the student's grade point average. Courses will be annotated "Academic Amnesty Excluded from GPA" on the transcript.
- Once Academic Amnesty is granted, students will not be eligible for honors at graduation. Students are still eligible for Dean's List and Chancellor's List honors.
- While demonstrating academic success, no changes are made to the student's academic record. If a student's cumulative GPA is still below standard, the students will continue to be reported as "continued on probation." Should the student revert to substandard academic performance while working on Academic Amnesty, the student can still be suspended. Academic Amnesty is intended to provide relief from the past without providing immunity from future substandard academic performance.
- Students must still meet all university and college requirements to graduate.

## Academic Probation and Suspension

### Probation

Probation constitutes a period of formal warning that a student is doing unsatisfactory work. A student whose cumulative grade point average is below 2.0 after having attempted six or more semester hours of study will be placed on probation. Probationary status will remain in effect as long as the student's cumulative grade point average (GPA) remains below 2.0. No student will be allowed to enroll for any course on a Pass/Fail or Credit/No Credit basis while on probation.

The student is encouraged to use every opportunity while on probation to seek counsel and guidance from various university agencies which have been established to offer assistance and academic support. For information on such services, the student should consult with their academic advisor or counselor.

### Suspension

Students who are on probation will be suspended at the end of the spring semester if their semester grade point average is lower than 2.0 and their cumulative grade point average (GPA) falls below the following standards:

| Hours Attempted | Cumulative GPA |
|-----------------|----------------|
| 0-12            | No Suspension  |
| 13-45           | 1.75           |
| 46 or more      | 2.00           |

Academic suspension under these conditions will be automatic and will be for a minimum period of one year.

Students placed on suspension will be notified by the College of Information Science & Technology and given instructions on how to appeal, should they choose to do so, as well as any applicable deadlines associated with an appeal.

Appeals properly filed shall delay implementation of the suspension until the appropriate appeal committee has ruled on the appeal. However, if the appeal is denied, the student shall be disenrolled and tuition shall be refunded.

Students will only be suspended at the end of the spring term. This rule applies to all UNO colleges, including the Division of Continuing Studies and all University of Nebraska-Lincoln Omaha-based programs in the Colleges of Architecture, Agriculture, Education and Human Resources, and Engineering.

### Reinstatement Policy Following Academic Suspension

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Academic Advising

The College of IS&T's undergraduate academic advisors recognize that students have individual academic, career, and personal needs that may require special assistance. Below are some guidelines on how academic advisors help ensure success. Students are strongly encouraged to meet with their advisor regularly.

### What do IS&T academic advisors do?

IS&T academic advisors explain the rules and requirements of College of IS&T programs and help students understand how they apply to individual situations. The advisors prepare each student record so that students meet all the requirements for the degree in the final audit process. In addition, advisors provide advice about which degree-program specific courses and

scheduling will be most helpful. They can also help with difficult situations such as concerns about grades, course instruction, time management, scheduling conflicts, or other academic issues.

### When should I see an academic advisor?

First and second-year students in the College of IS&T are required to meet with an advisor every semester. Third and fourth-year students in good academic standing are strongly encouraged, though not required, to continue to meet with an advisor at least once per semester to plan their classes, to make sure all records are up-to-date, and to catch any problems early. All fourth-year students are required to schedule a meeting for a graduation check when they reach 91 earned hours. Students majoring in Applied Computing & Informatics are required to meet with an academic advisor every semester.

Any student whose GPA falls below 2.5 will be required to meet with an academic advisor regardless of class standing.

### Advising Holds

Advising holds are automatically placed each semester for first-year students, second-year students, all Applied Computing & Informatics students, and for any student whose GPA is below a 2.5.

### Student Holds

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/> (p. 30)

### Graduation Check

When students reach 91 hours of completed coursework, they must request a graduation check to be done by an academic advisor. Assuming satisfactory completion of all approved courses and degree requirements, this process will assure the student's graduation date. Should this procedure not be followed, responsibility for meeting graduation requirements falls to the student and may prevent graduation on the anticipated date.

## Application for Degree

Each student who expects to receive a diploma must file an Application for Degree whether or not that student plans to attend the commencement ceremony. The Application for Degree is available online by logging in to MavLINK. Announcements about deadlines are also posted in MavLINK.

It is the responsibility of the student to inform the Registrar's Office of their graduation plans and to provide a diploma mailing address. Failure to meet these stipulations may necessitate postponement of graduation until the following semester.

## Computer Science

The Computer Science program provides a firm foundation in the theory and application of computing while allowing for additional concentration in areas of choice, such as information systems, mainframe computing, computer networking, telecommunications, data and knowledge engineering, and software development. This discipline is based on building software tools that make computers useful.

## Mission and Vision

The mission of the Computer Science Department is:

- Pursue research promoting technological advances in computer science aligned with the needs of 21st century society.
- Leverage best practices to engage undergraduate and graduate students in unique research and learning experiences both in and out of the classroom, and

- Take a leading role in promoting computer science and computational thinking across communities we serve

The **vision** of the Department is to create dynamic research and teaching environments that promote a computationally empowered society ready to tackle complex problems in rapidly changing technological landscapes.

## Bachelor of Science in Computer Science

The Bachelor of Science in Computer Science provides students with a solid background in the fundamentals of computing and prepares each individual for employment in a wide variety of positions and for graduate study in computer science. The content of the Department's courses is continually monitored to ensure they are consistent with the fast-changing developments in the discipline. Appropriate university and departmental computing resources are available to students taking computer sciences courses.

## Accreditation

The Computer Science program is accredited by the Computing Accreditation Commission of ABET, Inc., which is the recognized accreditor of college and university programs in applied science, computing, engineering, and engineering technology. ABET accreditation demonstrates a program's commitment to providing its students with a quality education. General information about the College of IS&T's accreditation as well as specific educational objectives for its ABET accredited program in Computer Science can be found here (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/abet-accreditation.php>).

## Repeatable Grades/Courses

A repeated course may count only once for graduation. Exceptions are internships, independent studies, physical education activities courses, and special topic courses.

For students repeating any Computer Science courses (CSCI 1xxx-4xxx):

1. A formal warning shall be conveyed to the student upon receiving a grade below C- in CSCI courses for a second time.
2. The student shall not be allowed to enroll in the course after receiving a grade below C- for the third time.

## Attendance Policy for Computer Science Courses

1. A formal warning shall be conveyed to the student upon the second instance (first instance for summer session) of unexcused absence from a class.
2. The student shall be withdrawn from the class after the third instance (second instance for summer session) of unexcused absence from the class.

## Contact

For more information, contact the College of IS&T Academic Advising Office at 402.554.3819.

**Website** (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/advising.php>)

## Degrees Offered

- Artificial Intelligence, Bachelor of Science in Artificial Intelligence (p. 647)

- Computer Science, Bachelor of Science (p. 649)

## Minors Offered

- Computer Science Minor (p. 660)

## Careers Options:

Computer Science majors have gone on to become the following and more. We will prepare you for jobs that do not even exist yet.

- Software Engineers and Programmers
- Web and Mobile Application Developers
- Enterprise Architect
- Project Managers
- Network and Cloud Architects
- Database Developers
- Game Developers
- User Experience Designers
- Data Scientists
- Artificial Intelligence Engineers

## Artificial Intelligence, Bachelor of Science in Artificial Intelligence

Artificial Intelligence (AI) is a multidisciplinary field of computing that integrates principles from machine learning, natural language processing, computer vision, robotics, generative AI, and large language models (LLMs) to develop algorithms and software enabling machines to perform tasks that typically require human intelligence. As the field of AI continues its rapid advancement, it is pushing the boundaries of technological possibilities and is expected to be in great demand within the future workforce.

## Artificial Intelligence, Bachelor of Science in Artificial Intelligence Requirements

A minimum of 120 credit hours is required for a Bachelor of Science degree in Artificial Intelligence. Thirty of the last 36 hours must be University of Nebraska at Omaha courses. Registering for courses without having taken the stated prerequisites could result in administrative withdrawal. Students must have a C or better grade in CIST 1400 and CSCI 1620 to serve as the prerequisite for all subsequent Computer Science (CSCI) courses. For all other courses applied towards the major, a grade of C- or better will meet the prerequisite and degree requirements.

To obtain an artificial intelligence degree, a student must fulfill the University General Education, College, and Departmental requirements. Some courses may satisfy requirements in more than one area, but credit is awarded only once, thereby reducing the total number of credit hours for the degree to 120. (This total does not include prerequisites.)

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 65 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 47**

|           |   |
|-----------|---|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I (^)              |
| CSCI 1620 | INTRODUCTION TO COMPUTER SCIENCE II (^)             |
| MATH 1950 | CALCULUS I (^)                                      |
| CSCI 2030 | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)    |
| MATH 2050 | APPLIED LINEAR ALGEBRA (^)                          |
| AIML 2060 | CONCEPTS OF ARTIFICIAL INTELLIGENCE (^)             |
| CSCI 2410 | INTRODUCTION TO DATA ANALYTICS USING PYTHON (^)     |
| CIST 2500 | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)     |
| CIST 3000 | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)      |
| CIST 3110 | INFORMATION TECHNOLOGY ETHICS (** ^)                |
| CSCI 3320 | DATA STRUCTURES (^)                                 |
| CSCI 3470 | FUNDAMENTALS AND ALGORITHMS OF MACHINE LEARNING (^) |
| CSCI 4100 | INTRODUCTION TO ALGORITHMS (^)                      |
| CSCI 4450 | PRINCIPLES OF ARTIFICIAL INTELLIGENCE (^)           |
| AIML 4970 | AI CAPSTONE (^)                                     |

**Extension Courses – Complete 6 courses 18**

Any CSCI courses numbered 2xxx-4xxxx which are not used to meet other BSAI degree requirements

PHIL 2010 SYMBOLIC LOGIC

ISQA 4010 BUSINESS INTELLIGENCE (^)

MATH/STAT 4450 INTRODUCTION TO MACHINE LEARNING AND DATA MINING (^)

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Artificial Intelligence, Bachelor of Science in Artificial Intelligence Four Year Plan - Start 1300-1200-1280

**First Year**

| <b>Fall</b>                               |   | <b>Credits</b> |
|---|---|----------------|
| ENGL 1150                                 | ENGLISH COMPOSITION I   | 3              |
| MATH 1950                                 | CALCULUS I  | 5              |
| CMST 1110<br>or CMST 2120                 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE  | 3              |
| CIST 1300<br>or CSCI 1200<br>or CSCI 1280 | INTRODUCTION TO WEB DEVELOPMENT<br>or COMPUTER SCIENCE PRINCIPLES<br>or INTRODUCTION TO COMPUTATIONAL SCIENCE | 3              |
| Elective course                           |   | 1              |
| <b>Credits</b>                            |   | <b>15</b>      |

**Spring**

|                                      |   |           |
|--------------------------------------|---|-----------|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| CIST 1400                            | INTRODUCTION TO COMPUTER SCIENCE I        | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

**Second Year****Fall**

|                                      |  |           |
|--------------------------------------|--|-----------|
| CSCI 1620                            | INTRODUCTION TO COMPUTER SCIENCE II          | 3         |
| CSCI 2030                            | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

**Spring**

|                                      |   |           |
|--------------------------------------|---|-----------|
| AIML 2060                            | CONCEPTS OF ARTIFICIAL INTELLIGENCE         | 3         |
| CIST 2500                            | INTRODUCTION TO APPLIED STATISTICS FOR IS&T | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

**Third Year****Fall**

|           |   |   |
|-----------|---|---|
| CSCI 2410 | INTRODUCTION TO DATA ANALYTICS USING PYTHON | 3 |
| CSCI 3320 | DATA STRUCTURES                             | 3 |
| CIST 3110 | INFORMATION TECHNOLOGY ETHICS               | 3 |
| MATH 2050 | APPLIED LINEAR ALGEBRA                      | 3 |



|                                      |   |            |
|--------------------------------------|---|------------|
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| CSCI 3470                            | FUNDAMENTALS AND ALGORITHMS OF MACHINE LEARNING | 3          |
| CSCI 4100                            | INTRODUCTION TO ALGORITHMS                      | 3          |
| Extension Course                     |   | 3          |
| Extension Course                     |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Fourth Year</b>                   |   |            |
| <b>Fall</b>                          |   |            |
| CIST 3000                            | TECHNICAL WRITING & COMMUNICATION FOR IS&T      | 3          |
| CSCI 4450                            | PRINCIPLES OF ARTIFICIAL INTELLIGENCE           | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| AIML 4970                            | Capstone  | 3          |
| Extension Course                     |   | 3          |
| Extension Course                     |   | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Total Credits</b>                 |   | <b>120</b> |

## Artificial Intelligence, Bachelor of Science in Artificial Intelligence Four Year Plan- Start 1400

|                                      |  |                |
|--------------------------------------|--|----------------|
| <b>First Year</b>                    |  |                |
| <b>Fall</b>                          |  | <b>Credits</b> |
| ENGL 1150                            | ENGLISH COMPOSITION I                                | 3              |
| MATH 1950                            | CALCULUS I   | 5              |
| CMST 1110<br>or CMST 2120            | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3              |
| CIST 1400                            | INTRODUCTION TO COMPUTER SCIENCE I                   | 3              |
| Elective Course                      |  | 1              |
| <b>Credits</b>                       |  | <b>15</b>      |
| <b>Spring</b>                        |  |                |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY            | 3              |
| CSCI 1620                            | INTRODUCTION TO COMPUTER SCIENCE II                  | 3              |
| General Education Course or Elective |  | 3              |
| General Education Course or Elective |  | 3              |
| General Education Course or Elective |  | 3              |
| <b>Credits</b>                       |  | <b>15</b>      |
| <b>Second Year</b>                   |  |                |
| <b>Fall</b>                          |  |                |
| CSCI 2030                            | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE         | 3              |
| AIML 2060                            | CONCEPTS OF ARTIFICIAL INTELLIGENCE                  | 3              |

|                                      |   |            |
|--------------------------------------|---|------------|
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| CSCI 3320                            | DATA STRUCTURES                                 | 3          |
| CIST 2500                            | INTRODUCTION TO APPLIED STATISTICS FOR IS&T     | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Third Year</b>                    |   |            |
| <b>Fall</b>                          |   |            |
| CIST 3110                            | INFORMATION TECHNOLOGY ETHICS                   | 3          |
| CSCI 2410                            | INTRODUCTION TO DATA ANALYTICS USING PYTHON     | 3          |
| MATH 2050                            | APPLIED LINEAR ALGEBRA                          | 3          |
| Extension Course                     |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| CSCI 3470                            | FUNDAMENTALS AND ALGORITHMS OF MACHINE LEARNING | 3          |
| CSCI 4100                            | INTRODUCTION TO ALGORITHMS                      | 3          |
| CIST 3000                            | TECHNICAL WRITING & COMMUNICATION FOR IS&T      | 3          |
| Extension Course                     |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Fourth Year</b>                   |   |            |
| <b>Fall</b>                          |   |            |
| CSCI 4450                            | PRINCIPLES OF ARTIFICIAL INTELLIGENCE           | 3          |
| Extension Course                     |   | 3          |
| Extension Course                     |   | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Spring</b>                        |   |            |
| AIML 4970                            | Capstone  | 3          |
| Extension Course                     |   | 3          |
| Extension Course                     |   | 3          |
| General Education Course or Elective |   | 3          |
| General Education Course or Elective |   | 3          |
| <b>Credits</b>                       |   | <b>15</b>  |
| <b>Total Credits</b>                 |   | <b>120</b> |

## Computer Science, Bachelor of Science

The Bachelor of Science in Computer Science provides students with a solid background in the fundamentals of computing and prepares them for employment in a wide variety of positions and for graduate study in computer science. The content of the department's courses is continually monitored to ensure they are consistent with fast-changing developments in the discipline. Courses are offered in the day, evening, and some online sections for the convenience of our students. Appropriate university and



departmental computing resources are available to students taking computer science courses.

Student Group

The Association of Computer Machinery (ACM) (<https://www.acm.org/>) is a major force in advancing the skills of information technology professionals and students worldwide, providing the industry’s leading portal to computing literature and more. The College of Information Science & Technology has two student chapters: UNO ACM and UNO ACM-W.

Fast Track

The department of Computer Science has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor’s degree and a master’s degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate credit hours towards the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

Program Specifics:

- This program is available for undergraduate students pursuing any CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

Computer Science, Bachelor of Science in Computer Science Requirements

A minimum of 120 credit hours is required for a Bachelor of Science degree in Computer Science. Thirty of the last 36 hours must be University of Nebraska at Omaha courses. Registering for courses without having taken the stated prerequisites could result in administrative withdrawal. Students must have a C or better grade in CIST 1400 and CSCI 1620 to serve as the prerequisite for all subsequent Computer Science (CSCI) courses. For all other courses applied towards the major, a grade of C- or better will meet the prerequisite and degree requirements.

To obtain a computer science degree, a student must fulfill the University General Education, College, and Departmental requirements. Some courses may satisfy requirements in more than one area, but credit is awarded only once, thereby reducing the total number of credit hours for the degree to 120. (This total does not include prerequisites.)

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of “C-”required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 85 Hours Required</b>   |   |           |
| **Course will satisfy UNO’s General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>42</b> |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                  |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)                 |           |
| CSCI 2240   | INTRODUCTION TO C PROGRAMMING (^)                       |           |
| CIST 3000   | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)          |           |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)                    |           |
| CSCI 3320   | DATA STRUCTURES (^)                                     |           |
| CSCI 3660   | THEORY OF COMPUTATION (^)                               |           |
| CSCI 3720   | COMPUTER ORGANIZATION                                   |           |
| CSCI 3550   | COMMUNICATION NETWORKS (^)                              |           |
| or CSCI 4350  | COMPUTER ARCHITECTURE                                   |           |
| CSCI 4100   | INTRODUCTION TO ALGORITHMS (^)                          |           |

|   |   |
|---|---|
| CSCI 4220   | PRINCIPLES OF PROGRAMMING LANGUAGES (^)                     |
| CSCI 4500   | OPERATING SYSTEMS (^)                                       |
| CSCI 4830   | INTRODUCTION SOFTWARE ENGINEERING (^)                       |
| CSCI 4970   | CAPSTONE PROJECT (^)  |
| CSCI 4000   | ASSESSMENT (^)  |
| <b>Extension Courses – Complete 21 credit hours*</b>  |   |
| At least 12 hours of upper-division Computer Science Courses (CSCI 3XXX+) <sup>1</sup>  |   |
| Up to 9 hours can be at the lower-division, including MATH 1960, MATH 1970, or any other course from 2XXX to 4XXX level from CSCI, BIOI, CYBR, ISQA, ITIN, ECEN, or MATH <sup>2</sup> |   |
| *18 extension hours can be satisfied by completing an optional concentration.   |   |
| <b>Math Courses - All of the following:</b>   | <b>15</b>   |
| MATH 1950   | CALCULUS I (^)  |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)            |
| CSCI 2040   | INTRODUCTION TO MATHEMATICAL PROOFS (^)                     |
| MATH 2050   | APPLIED LINEAR ALGEBRA (^)                                  |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)             |
| <b>Science Courses - Complete 7 credit hours from the following list, representing at least 2 disciplines with a minimum of 1 laboratory course**</b>                                 | <b>7</b>  |
| PHYS 1050   | INTRODUCTION TO PHYSICS (**)                                |
| PHYS 1054   | INTRODUCTION TO PHYSICS LABORATORY (**)                     |
| PHYS 1110   | PHYSICS FOR LIFE SCIENCE I (** ^)                           |
| PHYS 1154   | GENERAL PHYSICS LABORATORY I (** ^)                         |
| PHYS 2110   | GENERAL PHYSICS I - CALCULUS LEVEL (** ^)                   |
| CHEM 1010   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY (** ^)             |
| CHEM 1014   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (** ^)  |
| CHEM 1140   | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)                    |
| CHEM 1144   | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)         |
| CHEM 1170   | GENERAL CHEMISTRY I-II (** ^)                               |
| CHEM 1180   | GENERAL CHEMISTRY I (** ^)                                  |
| CHEM 1184   | GENERAL CHEMISTRY I LABORATORY (** ^)                       |
| BIOL 1450   | BIOLOGY I (** ^)  |
| BMCH 2400   | HUMAN PHYSIOLOGY & ANATOMY I (**)                           |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY (**)                       |
| GEOL 1100   | EARTH SYSTEM SCIENCE (**)                                   |
| GEOL 1104   | EARTH SYSTEM SCIENCE LAB (**)                               |
| GEOG 1030   | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**) |
| GEOG 1050   | HUMAN-ENVIRONMENT GEOGRAPHY (**)                            |
| GEOG 1090   | INTRODUCTION TO GEOSPATIAL SCIENCES (**)                    |
| GEOG 3510   | METEOROLOGY (**)  |

GEOG 3514 INTRODUCTION TO METEOROLOGY LABORATORY (\*\* ^)

### ELECTIVES

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Upper-level CSCI transfer credits can also be applied towards this requirement.

<sup>2</sup> Lower-level and upper-level CSCI transfer credits can also be applied towards this requirement.

## Computer Science Elective Concentrations

- Artificial Intelligence Concentration (p. 653)
- Game Programming Concentration (p. 654)
- Internet Technologies (iT) Concentration for Computer Science Majors (p. 657)
- Information Assurance Concentration (p. 658)
- Software Engineering Concentration (p. 656)

## Computer Science, Bachelor of Science in Computer Science Four Year Plan - Start 1300-1200-1280

### First Year

| Fall                                      |   | Credits   |
|---|---|-----------|
| ENGL 1150                                 | ENGLISH COMPOSITION I   | 3         |
| CMST 1110<br>or CMST 2120                 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE  | 3         |
| CIST 1300<br>or CSCI 1200<br>or CSCI 1280 | INTRODUCTION TO WEB DEVELOPMENT<br><br>or COMPUTER SCIENCE PRINCIPLES<br>or INTRODUCTION TO COMPUTATIONAL SCIENCE | 3         |
| MATH 1950                                 | CALCULUS I  | 5         |
| <b>Credits</b>                            |   | <b>14</b> |

### Spring

|   |   |           |
|---|---|-----------|
| ENGL 1160                                     | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| CIST 1400                                     | INTRODUCTION TO COMPUTER SCIENCE I        | 3         |
| Natural/Physical Science Requirement with Lab |   | 4         |
| General Education Course or Elective          |   | 3         |
| General Education Course or Elective          |   | 2         |
| <b>Credits</b>                                |   | <b>15</b> |

### Second Year

| Fall                                  |  | Credits   |
|---------------------------------------|--|-----------|
| CSCI 1620                             | INTRODUCTION TO COMPUTER SCIENCE II          | 3         |
| CSCI 2030                             | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE | 3         |
| CSCI 2040                             | INTRODUCTION TO MATHEMATICAL PROOFS          | 1         |
| CIST 3110                             | INFORMATION TECHNOLOGY ETHICS                | 3         |
| Natural/Physical Sciences Requirement |  | 3         |
| General Education Course or Elective  |  | 3         |
| <b>Credits</b>                        |  | <b>16</b> |

|                                      |  |            |
|--------------------------------------|--|------------|
| <b>Spring</b>                        |  |            |
| CIST 2500                            | INTRODUCTION TO APPLIED STATISTICS FOR IS&T        | 3          |
| CSCI 2240                            | INTRODUCTION TO C PROGRAMMING                      | 3          |
| CSCI 3320                            | DATA STRUCTURES                                    | 3          |
| Extension/Concentration Course       |  | 3          |
| General Education Course or Elective |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Third Year</b>                    |  |            |
| <b>Fall</b>                          |  |            |
| MATH 2050                            | APPLIED LINEAR ALGEBRA                             | 3          |
| CIST 3000                            | TECHNICAL WRITING & COMMUNICATION FOR IS&T         | 3          |
| CSCI 3720                            | COMPUTER ORGANIZATION                              | 3          |
| Extension/Concentration Course       |  | 3          |
| General Education Course or Elective |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Spring</b>                        |  |            |
| CSCI 3550<br>or CSCI 4350            | COMMUNICATION NETWORKS<br>or COMPUTER ARCHITECTURE | 3          |
| CSCI 3660                            | THEORY OF COMPUTATION                              | 3          |
| CSCI 4100                            | INTRODUCTION TO ALGORITHMS                         | 3          |
| General Education Course or Elective |  | 3          |
| General Education Course or Elective |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Fourth Year</b>                   |  |            |
| <b>Fall</b>                          |  |            |
| CSCI 4220                            | PRINCIPLES OF PROGRAMMING LANGUAGES                | 3          |
| CSCI 4500                            | OPERATING SYSTEMS                                  | 3          |
| CSCI 4830                            | INTRODUCTION SOFTWARE ENGINEERING                  | 3          |
| Extension/Concentration Course       |  | 3          |
| Extension/Concentration Course       |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Spring</b>                        |  |            |
| CSCI 4000                            | ASSESSMENT   | 0          |
| CSCI 4970                            | CAPSTONE PROJECT                                   | 3          |
| Extension/Concentration Course       |  | 3          |
| Extension/Concentration Course       |  | 3          |
| Extension/Concentration Course       |  | 3          |
| General Education Course or Elective |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Total Credits</b>                 |  | <b>120</b> |

## Computer Science, Bachelor of Science in Computer Science Four Year Plan - Start 1400

|                           |  |          |
|---------------------------|--|----------|
| <b>First Year</b>         |  |          |
| <b>Fall</b>               |  |          |
| ENGL 1150                 | ENGLISH COMPOSITION I                                | 3        |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3        |
| CIST 1400                 | INTRODUCTION TO COMPUTER SCIENCE I                   | 3        |
| <b>Credits</b>            |  | <b>9</b> |

|  |  |           |
|--|--|-----------|
| MATH 1950                                      | CALCULUS I   | 5         |
| <b>Credits</b>                                 |  | <b>14</b> |
| <b>Spring</b>                                  |  |           |
| ENGL 1160                                      | COLLEGE RESEARCH AND INFORMATION LITERACY          | 3         |
| CSCI 1620                                      | INTRODUCTION TO COMPUTER SCIENCE II                | 3         |
| Natural/Physical Sciences Requirement with Lab |  | 4         |
| General Education Course or Elective           |  | 3         |
| General Education Course or Elective           |  | 2         |
| <b>Credits</b>                                 |  | <b>15</b> |
| <b>Second Year</b>                             |  |           |
| <b>Fall</b>                                    |  |           |
| CSCI 2240                                      | INTRODUCTION TO C PROGRAMMING                      | 3         |
| CSCI 2030                                      | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE       | 3         |
| CSCI 2040                                      | INTRODUCTION TO MATHEMATICAL PROOFS                | 1         |
| CIST 3110                                      | INFORMATION TECHNOLOGY ETHICS                      | 3         |
| Natural/Physical Sciences Requirement          |  | 3         |
| General Education Course or Elective           |  | 3         |
| <b>Credits</b>                                 |  | <b>16</b> |
| <b>Spring</b>                                  |  |           |
| MATH 2050                                      | APPLIED LINEAR ALGEBRA                             | 3         |
| CIST 2500                                      | INTRODUCTION TO APPLIED STATISTICS FOR IS&T        | 3         |
| CSCI 3320                                      | DATA STRUCTURES                                    | 3         |
| General Education Course or Elective           |  | 3         |
| General Education Course or Elective           |  | 3         |
| <b>Credits</b>                                 |  | <b>15</b> |
| <b>Third Year</b>                              |  |           |
| <b>Fall</b>                                    |  |           |
| CIST 3000                                      | TECHNICAL WRITING & COMMUNICATION FOR IS&T         | 3         |
| CSCI 3720                                      | COMPUTER ORGANIZATION                              | 3         |
| Extension/Concentration Course                 |  | 3         |
| Extension/Concentration Course                 |  | 3         |
| General Education Course or Elective           |  | 3         |
| <b>Credits</b>                                 |  | <b>15</b> |
| <b>Spring</b>                                  |  |           |
| CSCI 3550<br>or CSCI 4350                      | COMMUNICATION NETWORKS<br>or COMPUTER ARCHITECTURE | 3         |
| CSCI 3660                                      | THEORY OF COMPUTATION                              | 3         |
| CSCI 4100                                      | INTRODUCTION TO ALGORITHMS                         | 3         |
| General Education Course or Elective           |  | 3         |
| General Education Course or Elective           |  | 3         |
| <b>Credits</b>                                 |  | <b>15</b> |
| <b>Fourth Year</b>                             |  |           |
| <b>Fall</b>                                    |  |           |
| CSCI 4220                                      | PRINCIPLES OF PROGRAMMING LANGUAGES                | 3         |
| CSCI 4500                                      | OPERATING SYSTEMS                                  | 3         |
| CSCI 4830                                      | INTRODUCTION SOFTWARE ENGINEERING                  | 3         |
| Extension/Concentration Course                 |  | 3         |
| Extension/Concentration Course                 |  | 3         |
| <b>Credits</b>                                 |  | <b>15</b> |

**Spring**

|                                      |                  |            |
|--------------------------------------|------------------|------------|
| CSCI 4000                            | ASSESSMENT       | 0          |
| CSCI 4970                            | CAPSTONE PROJECT | 3          |
| Extension/Concentration Course       |                  | 3          |
| Extension/Concentration Course       |                  | 3          |
| Extension/Concentration Course       |                  | 3          |
| General Education Course or Elective |                  | 3          |
| <b>Credits</b>                       |                  | <b>15</b>  |
| <b>Total Credits</b>                 |                  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific degree program to determine all requirements for the program. In order to graduate on time (four years for an undergraduate degree), you need to take 30 credit hours each year.

**Placement Exams:** For Math, English, and Foreign Languages, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Please note that transfer credit or placement exam scores may change a suggested plan of study.

# Artificial Intelligence Concentration

## Computer Science, Bachelor of Science in Computer Science - Artificial Intelligence Concentration Requirements

The Artificial Intelligence concentration is intended to enable students to learn about the principal technologies and methods for programming autonomous behavior on software agents and robots as well as learn about the computational approaches towards solving problems that deemed to require human intelligence. Students will gain knowledge about the reasoning, planning and learning techniques and algorithms used by software agents for natural language understanding, and by robots and game-avatars for problem solving, mobility, and strategic decision making. Taking courses in this track will provide students the essential skills for writing programs for real-world problems that require software programs and robots to mimic human behavior and assist humans in performing complex, risky and tedious tasks. Students will also have an opportunity to participate in national and international AI and game programming competitions and do capstone course projects to explore selective topics in more in-depth manner.

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy - 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 85 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>42</b> |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                  |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)                 |           |
| CSCI 2240   | INTRODUCTION TO C PROGRAMMING (^)                       |           |
| CIST 3000   | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)          |           |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)                    |           |
| CSCI 3320   | DATA STRUCTURES (^)                                     |           |
| CSCI 3550   | COMMUNICATION NETWORKS (^)                              |           |
| or CSCI 4350  | COMPUTER ARCHITECTURE                                   |           |
| CSCI 3660   | THEORY OF COMPUTATION (^)                               |           |
| CSCI 3720   | COMPUTER ORGANIZATION                                   |           |
| CSCI 4100   | INTRODUCTION TO ALGORITHMS (^)                          |           |
| CSCI 4220   | PRINCIPLES OF PROGRAMMING LANGUAGES (^)                 |           |
| CSCI 4500   | OPERATING SYSTEMS (^)                                   |           |
| CSCI 4830   | INTRODUCTION SOFTWARE ENGINEERING (^)                   |           |
| CSCI 4970   | CAPSTONE PROJECT (^)                                    |           |

|   |  |           |
|---|--|-----------|
| CSCI 4000   | ASSESSMENT (^)   |           |
| <b>Artificial Intelligence Concentration - 18 Hours</b>   |  |           |
| <b>All of the following:</b>  |  | <b>6</b>  |
| CSCI 3450   | NATURAL LANGUAGE PROCESSING (^)                                  |           |
| or CSCI 3470  | FUNDAMENTALS AND ALGORITHMS OF MACHINE LEARNING                  |           |
| CSCI 4450   | PRINCIPLES OF ARTIFICIAL INTELLIGENCE (^)                        |           |
| <b>Select 4 courses from the following (at least 2 courses must be 3000 and above):</b>   |  | <b>12</b> |
| PHIL 2010   | SYMBOLIC LOGIC   |           |
| CSCI 2410   | INTRODUCTION TO DATA ANALYTICS USING PYTHON (^)                  |           |
| CSCI 2510   | INTRODUCTION TO GAME PROGRAMMING (^)                             |           |
| CSCI 2880   | INTRODUCTION TO GENERATIVE AI                                    |           |
| CSCI 3470   | FUNDAMENTALS AND ALGORITHMS OF MACHINE LEARNING (^) <sup>1</sup> |           |
| or CSCI 3450  | NATURAL LANGUAGE PROCESSING                                      |           |
| CSCI 3510   | ADVANCED GAME PROGRAMMING (^)                                    |           |
| CSCI 3850   | FOUNDATIONS OF WEB SEARCH TECHNOLOGIES (^)                       |           |
| CSCI 4150   | GRAPH THEORY & APPLICATIONS (^)                                  |           |
| CSCI 4250   | HUMAN COMPUTER INTERACTION (^)                                   |           |
| CSCI 4470   | PATTERN RECOGNITION (^)  |           |
| CSCI 4480   | ALGORITHMS FOR ROBOTICS (^)                                      |           |
| CSCI 4850   | DATABASE MANAGEMENT SYSTEMS (^)                                  |           |
| CSCI 4890   | DATA WAREHOUSING AND DATA MINING (^)                             |           |
| ISQA 4010   | BUSINESS INTELLIGENCE (^)  |           |
| MATH 4450   | INTRODUCTION TO MACHINE LEARNING AND DATA MINING (^)             |           |
| <b>Extension Courses - Complete 3 credit hours</b>  |  | <b>3</b>  |
| Complete 3 additional hours of upper-level CSCI coursework (3XXX or 4XXX level) not used to meet other degree or concentration requirements. <sup>2</sup> |  |           |
| <b>Math Courses - All of the following:</b>   |  | <b>15</b> |
| MATH 1950   | CALCULUS I (^)   |           |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)                 |           |
| CSCI 2040   | INTRODUCTION TO MATHEMATICAL PROOFS (^)                          |           |
| MATH 2050   | APPLIED LINEAR ALGEBRA (^)                                       |           |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)                  |           |
| <b>Science Courses - Complete 7 credit hours from the following list, representing at least 2 disciplines with a minimum of 1 laboratory course**</b>     |  | <b>7</b>  |
| PHYS 1050   | INTRODUCTION TO PHYSICS (**)                                     |           |
| PHYS 1054   | INTRODUCTION TO PHYSICS LABORATORY (**)                          |           |
| PHYS 1110   | PHYSICS FOR LIFE SCIENCE I (** ^)                                |           |
| PHYS 1154   | GENERAL PHYSICS LABORATORY I (** ^)                              |           |
| PHYS 2110   | GENERAL PHYSICS I - CALCULUS LEVEL (** ^)                        |           |
| CHEM 1010   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY (** ^)                  |           |
| CHEM 1014   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (** ^)       |           |

|           |   |
|-----------|---|
| CHEM 1140 | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)                    |
| CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)         |
| CHEM 1170 | GENERAL CHEMISTRY I-II (** ^)                               |
| CHEM 1180 | GENERAL CHEMISTRY I (** ^)                                  |
| CHEM 1184 | GENERAL CHEMISTRY I LABORATORY (** ^)                       |
| BIOL 1450 | BIOLOGY I (** ^)  |
| BMCH 2400 | HUMAN PHYSIOLOGY & ANATOMY I (**)                           |
| GEOL 1170 | INTRODUCTION TO PHYSICAL GEOLOGY (**)                       |
| GEOL 1100 | EARTH SYSTEM SCIENCE (**)                                   |
| GEOL 1104 | EARTH SYSTEM SCIENCE LAB (**)                               |
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**) |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (**)                            |
| GEOG 1090 | INTRODUCTION TO GEOSPATIAL SCIENCES (**)                    |
| GEOG 3510 | METEOROLOGY (**)  |
| GEOG 3514 | INTRODUCTION TO METEOROLOGY LABORATORY (** ^)               |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> CSCI 3450 and CSCI 3470 may only be used once each to meet concentration requirements.

<sup>2</sup> Upper-level CSCI transfer credits can also be applied towards this requirement.

## Game Programming Concentration

### Computer Science, Bachelor of Science in Computer Science - Game Programming Concentration Requirements

The game programming concentration provides students with the basic concepts involved in the video game development process. The required courses give the student an introductory knowledge of both 2D and 3D game programming, as well as resource management, concepts of designing games, and general graphics theory. The elective courses allow the student to focus on a particular aspect of game development: game design, game/player interaction, game programming, or graphics. This concentration is only open to undergraduate Computer Science majors in the College of IS&T.

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |



|   |   |           |
|---|---|-----------|
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs  |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 85 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>42</b> |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                  |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)                 |           |
| CSCI 2240   | INTRODUCTION TO C PROGRAMMING (^)                       |           |
| CIST 3000   | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)          |           |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)                    |           |
| CSCI 3320   | DATA STRUCTURES (^)                                     |           |
| CSCI 3660   | THEORY OF COMPUTATION (^)                               |           |
| CSCI 3720   | COMPUTER ORGANIZATION                                   |           |
| CSCI 3550   | COMMUNICATION NETWORKS (^)                              |           |
| or CSCI 4350  | COMPUTER ARCHITECTURE                                   |           |
| CSCI 4100   | INTRODUCTION TO ALGORITHMS (^)                          |           |
| CSCI 4220   | PRINCIPLES OF PROGRAMMING LANGUAGES (^)                 |           |
| CSCI 4500   | OPERATING SYSTEMS (^)                                   |           |
| CSCI 4830   | INTRODUCTION SOFTWARE ENGINEERING (^)                   |           |
| CSCI 4970   | CAPSTONE PROJECT (^)                                    |           |
| CSCI 4000   | ASSESSMENT (^)  |           |
| <b>Game Programming Concentration - 18 Hours</b>  |   |           |
| <b>All of the following:</b>  |   | <b>9</b>  |
| CSCI 2510   | INTRODUCTION TO GAME PROGRAMMING (^)                    |           |
| CSCI 3510   | ADVANCED GAME PROGRAMMING (^)                           |           |
| CSCI 4620   | 3D COMPUTER GRAPHICS (^)                                |           |
| <b>Select 3 courses from the following (limit of 1 non-CS course):</b>  |   | <b>9</b>  |

|   |   |           |
|---|---|-----------|
| CSCI 1280   | INTRODUCTION TO COMPUTATIONAL SCIENCE (** ^)                          |           |
| CSCI 2620   | 2D GRAPHICS: IMAGE PROCESSING (^)                                     |           |
| CSCI 4250   | HUMAN COMPUTER INTERACTION (^)  |           |
| CSCI 4260   | USER EXPERIENCE DESIGN (^)  |           |
| CSCI 4450   | PRINCIPLES OF ARTIFICIAL INTELLIGENCE (^)                             |           |
| CSCI 4480   | ALGORITHMS FOR ROBOTICS (^)   |           |
| CSCI/MATH 4660  | AUTOMATA, COMPUTABILITY, AND FORMAL LANGUAGES (^)                     |           |
| CSCI 4850   | DATABASE MANAGEMENT SYSTEMS (^)                                       |           |
| ART 3140  | COMPUTER-GENERATED IMAGERY (CGI) I: INTERACTIVE 3D VIRTUAL SPACES (^) |           |
| ART 3160  | GAME DESIGN AS ART (^)  |           |
| PHIL 3230   | PHILOSOPHY AND POPULAR MEDIA  |           |
| <b>Extension Courses - Complete 3 credit hours</b>  |   | <b>3</b>  |
| Complete 3 additional hours of upper-level CSCI coursework (3XXX or 4XXX level) not used to meet other degree or concentration requirements. <sup>1</sup> |   |           |
| <b>Math Courses - All of the following:</b>   |   | <b>15</b> |
| MATH 1950   | CALCULUS I (^)  |           |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)                      |           |
| CSCI 2040   | INTRODUCTION TO MATHEMATICAL PROOFS (^)                               |           |
| MATH 2050   | APPLIED LINEAR ALGEBRA (^)  |           |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)                       |           |
| <b>Science Courses - Complete 7 credit hours from the following list, representing at least 2 disciplines with a minimum of 1 laboratory course**</b>     |   | <b>7</b>  |
| PHYS 1050   | INTRODUCTION TO PHYSICS (**)  |           |
| PHYS 1054   | INTRODUCTION TO PHYSICS LABORATORY (** ^)                             |           |
| PHYS 1110   | PHYSICS FOR LIFE SCIENCE I (** ^)                                     |           |
| PHYS 1154   | GENERAL PHYSICS LABORATORY I (** ^)                                   |           |
| PHYS 2110   | GENERAL PHYSICS I - CALCULUS LEVEL (** ^)                             |           |
| CHEM 1010   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY (** ^)                       |           |
| CHEM 1014   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (** ^)            |           |
| CHEM 1140   | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)                              |           |
| CHEM 1144   | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)                   |           |
| CHEM 1170   | GENERAL CHEMISTRY I-II (** ^)   |           |
| CHEM 1180   | GENERAL CHEMISTRY I (** ^)  |           |
| CHEM 1184   | GENERAL CHEMISTRY I LABORATORY (** ^)                                 |           |
| BIOL 1450   | BIOLOGY I (** ^)  |           |
| BMCH 2400   | HUMAN PHYSIOLOGY & ANATOMY I (**)                                     |           |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY (**)                                 |           |
| GEOL 1100   | EARTH SYSTEM SCIENCE (**)   |           |
| GEOL 1104   | EARTH SYSTEM SCIENCE LAB (**)   |           |
| GEOG 1030   | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)           |           |



|           |   |
|-----------|---|
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (**)              |
| GEOG 1090 | INTRODUCTION TO GEOSPATIAL SCIENCES (**)      |
| GEOG 3510 | METEOROLOGY (**)                              |
| GEOG 3514 | INTRODUCTION TO METEOROLOGY LABORATORY (** ^) |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Upper-level CSCI transfer credits can also be applied towards this requirement.

# Software Engineering Concentration

## Computer Science, Bachelor of Science in Computer Science - Software Engineering Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 85 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |

|   |  |           |
|---|--|-----------|
| <b>All of the following:</b>  |  | <b>42</b> |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)   |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)  |           |
| CSCI 2240   | INTRODUCTION TO C PROGRAMMING (^)  |           |
| CIST 3000   | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)   |           |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)   |           |
| CSCI 3320   | DATA STRUCTURES (^)  |           |
| CSCI 3550   | COMMUNICATION NETWORKS (^)   |           |
| or CSCI 4350  | COMPUTER ARCHITECTURE  |           |
| CSCI 3660   | THEORY OF COMPUTATION (^)  |           |
| CSCI 3720   | COMPUTER ORGANIZATION  |           |
| CSCI 4100   | INTRODUCTION TO ALGORITHMS (^)   |           |
| CSCI 4220   | PRINCIPLES OF PROGRAMMING LANGUAGES (^)  |           |
| CSCI 4500   | OPERATING SYSTEMS (^)  |           |
| CSCI 4830   | INTRODUCTION SOFTWARE ENGINEERING (^)  |           |
| CSCI 4970   | CAPSTONE PROJECT (^)   |           |
| CSCI 4000   | ASSESSMENT (^)   |           |
| <b>Software Engineering Concentration - 18 Hours</b>  |  |           |
| <b>All of the following:</b>  |  | <b>6</b>  |
| CSCI 3830   | ADVANCED JAVA PROGRAMMING (^)  |           |
| CSCI 4250   | HUMAN COMPUTER INTERACTION (^)   |           |
| <b>Select 4 courses from the following:</b>   |  | <b>12</b> |
| CSCI 2830   | OBJECT-ORIENTED SOFTWARE ENGINEERING FUNDAMENTALS (^)  |           |
| CSCI 4260   | USER EXPERIENCE DESIGN (^)   |           |
| CSCI 4650   | INTRODUCTION TO CLOUD COMPUTING (^)  |           |
| CSCI 4850   | DATABASE MANAGEMENT SYSTEMS (^)  |           |
| CSCI 4900   | INTERNET SYSTEMS DEVELOPMENT (^)   |           |
| CIST 4910   | SYSTEMS DEVELOPMENT IN OPEN SOURCE COMMUNITIES (^)   |           |
| CSCI 4950   | INTERNSHIP IN COMPUTER SCIENCE (Internship must be a software engineering position with approval of the CS undergraduate program committee.) |           |
| <b>Extension Courses - Complete 3 credit hours</b>  |  | <b>3</b>  |
| Complete 3 additional hours of upper-level CSCI coursework (3XXX or 4XXX level) not used to meet other degree or concentration requirements. <sup>1</sup> |  |           |
| <b>Math Courses - All of the following:</b>   |  | <b>15</b> |
| MATH 1950   | CALCULUS I (^)   |           |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)   |           |
| CSCI 2040   | INTRODUCTION TO MATHEMATICAL PROOFS (^)  |           |
| MATH 2050   | APPLIED LINEAR ALGEBRA (^)   |           |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)  |           |
| <b>Science Courses - Complete 7 credit hours from the following list, representing at least 2 disciplines with a minimum of 1 laboratory course**</b>     |  | <b>7</b>  |
| PHYS 1050   | INTRODUCTION TO PHYSICS (**)   |           |

|           |   |
|-----------|---|
| PHYS 1054 | INTRODUCTION TO PHYSICS LABORATORY (** ^)                   |
| PHYS 1110 | PHYSICS FOR LIFE SCIENCE I (** ^)                           |
| PHYS 1154 | GENERAL PHYSICS LABORATORY I (** ^)                         |
| PHYS 2110 | GENERAL PHYSICS I - CALCULUS LEVEL (** ^)                   |
| CHEM 1010 | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY (** ^)             |
| CHEM 1014 | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (** ^)  |
| CHEM 1140 | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)                    |
| CHEM 1144 | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)         |
| CHEM 1170 | GENERAL CHEMISTRY I-II (** ^)                               |
| CHEM 1180 | GENERAL CHEMISTRY I (** ^)                                  |
| CHEM 1184 | GENERAL CHEMISTRY I LABORATORY (** ^)                       |
| BIOL 1450 | BIOLOGY I (** ^)  |
| BMCH 2400 | HUMAN PHYSIOLOGY & ANATOMY I (**)                           |
| GEOL 1170 | INTRODUCTION TO PHYSICAL GEOLOGY (**)                       |
| GEOL 1100 | EARTH SYSTEM SCIENCE (**)                                   |
| GEOL 1104 | EARTH SYSTEM SCIENCE LAB (**)                               |
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**) |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (**)                            |
| GEOG 1090 | INTRODUCTION TO GEOSPATIAL SCIENCES (**)                    |
| GEOG 3510 | METEOROLOGY (**)  |
| GEOG 3514 | INTRODUCTION TO METEOROLOGY LABORATORY (** ^)               |

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Upper-level CSCI transfer credits can also be applied towards this requirement.

## Internet Technologies (iT) Concentration for Computer Science Majors

### Computer Science, Bachelor of Science in Computer Science - Internet Technologies Concentration Requirements

The internet technologies (iT) concentration supplements the Computer Science (CS) curriculum by focusing on the concepts and technologies needed to implement modern web applications. The concentration is designed to supplement the CS core curriculum by introducing the programming aspects as well as the theoretical concepts needed to build the infrastructure for web systems such as search engines, social networking sites, etc. The iT concentration provides extensive hands-on, project-based experience for students.

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 85 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>42</b> |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                  |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)                 |           |
| CSCI 2240   | INTRODUCTION TO C PROGRAMMING (^)                       |           |
| CIST 3000   | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)          |           |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)                    |           |
| CSCI 3320   | DATA STRUCTURES (^)                                     |           |
| CSCI 3550   | COMMUNICATION NETWORKS (^)                              |           |
| or CSCI 4350  | COMPUTER ARCHITECTURE                                   |           |
| CSCI 3660   | THEORY OF COMPUTATION (^)                               |           |
| CSCI 3720   | COMPUTER ORGANIZATION                                   |           |
| CSCI 4100   | INTRODUCTION TO ALGORITHMS (^)                          |           |
| CSCI 4220   | PRINCIPLES OF PROGRAMMING LANGUAGES (^)                 |           |
| CSCI 4500   | OPERATING SYSTEMS (^)                                   |           |
| CSCI 4830   | INTRODUCTION SOFTWARE ENGINEERING (^)                   |           |
| CSCI 4970   | CAPSTONE PROJECT (^)                                    |           |

|   |  |           |
|---|--|-----------|
| CSCI 4000   | ASSESSMENT (^)   |           |
| <b>Internet Technologies (IT) Concentration - 18 Hours</b>  |  |           |
| <b>All of the following:</b>  |  | <b>6</b>  |
| CSCI 2850   | PROGRAMMING ON THE INTERNET (^)                            |           |
| CSCI 4650   | INTRODUCTION TO CLOUD COMPUTING (^)                        |           |
| <b>Select 4 courses from the following:</b>   |  | <b>12</b> |
| CSCI 2830   | OBJECT-ORIENTED SOFTWARE ENGINEERING FUNDAMENTALS (^)      |           |
| CSCI 3450   | NATURAL LANGUAGE PROCESSING (^)                            |           |
| CSCI 3830   | ADVANCED JAVA PROGRAMMING (^)                              |           |
| CSCI 3850   | FOUNDATIONS OF WEB SEARCH TECHNOLOGIES (^)                 |           |
| CSCI 4150   | GRAPH THEORY & APPLICATIONS (^)                            |           |
| CSCI 4250   | HUMAN COMPUTER INTERACTION (^)                             |           |
| CSCI 4470   | PATTERN RECOGNITION (^)                                    |           |
| CSCI 4850   | DATABASE MANAGEMENT SYSTEMS (^)                            |           |
| CSCI 4890   | DATA WAREHOUSING AND DATA MINING (^)                       |           |
| CSCI 4900   | INTERNET SYSTEMS DEVELOPMENT (^)                           |           |
| CYBR 4460   | ETHICAL HACKING - NETWORK ANALYSIS (^)                     |           |
| <b>Extension Courses - Complete 3 credit hours</b>  |  | <b>3</b>  |
| Complete 3 additional hours of upper-level CSCI coursework (3XXX or 4XXX level) not used to meet other degree or concentration requirements. <sup>1</sup> |  |           |
| <b>Math Courses - All of the following:</b>   |  | <b>15</b> |
| MATH 1950   | CALCULUS I (^)   |           |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)           |           |
| CSCI 2040   | INTRODUCTION TO MATHEMATICAL PROOFS (^)                    |           |
| MATH 2050   | APPLIED LINEAR ALGEBRA (^)                                 |           |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)            |           |
| <b>Science Courses - Complete 7 credit hours from the following list, representing at least 2 disciplines with a minimum of 1 laboratory course**</b>     |  | <b>7</b>  |
| PHYS 1050   | INTRODUCTION TO PHYSICS (** ^)                             |           |
| PHYS 1054   | INTRODUCTION TO PHYSICS LABORATORY (** ^)                  |           |
| PHYS 1110   | PHYSICS FOR LIFE SCIENCE I (** ^)                          |           |
| PHYS 1154   | GENERAL PHYSICS LABORATORY I (** ^)                        |           |
| PHYS 2110   | GENERAL PHYSICS I - CALCULUS LEVEL (** ^)                  |           |
| CHEM 1010   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY (** ^)            |           |
| CHEM 1014   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (** ^) |           |
| CHEM 1140   | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)                   |           |
| CHEM 1144   | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)        |           |
| CHEM 1170   | GENERAL CHEMISTRY I-II (** ^)                              |           |
| CHEM 1180   | GENERAL CHEMISTRY I (** ^)                                 |           |
| CHEM 1184   | GENERAL CHEMISTRY I LABORATORY (** ^)                      |           |
| BIOL 1450   | BIOLOGY I (** ^)   |           |
| BMCH 2400   | HUMAN PHYSIOLOGY & ANATOMY I (**)                          |           |

|           |   |
|-----------|---|
| GEOL 1170 | INTRODUCTION TO PHYSICAL GEOLOGY (**)                       |
| GEOL 1100 | EARTH SYSTEM SCIENCE (**)                                   |
| GEOL 1104 | EARTH SYSTEM SCIENCE LAB (**)                               |
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**) |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (**)                            |
| GEOG 1090 | INTRODUCTION TO GEOSPATIAL SCIENCES (**)                    |
| GEOG 3510 | METEOROLOGY (**)  |
| GEOG 3514 | INTRODUCTION TO METEOROLOGY LABORATORY (** ^)               |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Upper-level CSCI transfer credits can also be applied towards this requirement.

## Information Assurance Concentration

### Computer Science, Bachelor of Science in Computer Science - Information Assurance Concentration Requirements

The information assurance concentration is intended for students who wish to specialize in the security aspects of the computer science field. The concentration focuses on fundamental principles, worked examples, theory, and skills necessary to analyze, design, and construct secure information systems. The courses in this concentration address fundamental technologies, security policy, assurance, and ethics involved in the protection of the information systems. Hands-on experience is gained through numerous programming exercises associated with each course.

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |

|   |  |           |
|---|--|-----------|
| STAT 1530   | ELEMENTARY STATISTICS  |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 85 Hours Required</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the following:</b>  |  | <b>42</b> |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)   |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)  |           |
| CSCI 2240   | INTRODUCTION TO C PROGRAMMING (^)  |           |
| CIST 3000   | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)                                   |           |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)   |           |
| CSCI 3320   | DATA STRUCTURES (^)  |           |
| CSCI 3550<br>or CSCI 4350   | COMMUNICATION NETWORKS (^)<br>COMPUTER ARCHITECTURE                              |           |
| CSCI 3660   | THEORY OF COMPUTATION (^)  |           |
| CSCI 3720   | COMPUTER ORGANIZATION (^)  |           |
| CSCI 4100   | INTRODUCTION TO ALGORITHMS (^)   |           |
| CSCI 4220   | PRINCIPLES OF PROGRAMMING LANGUAGES (^)  |           |
| CSCI 4500   | OPERATING SYSTEMS (^)  |           |
| CSCI 4830   | INTRODUCTION SOFTWARE ENGINEERING (^)  |           |
| CSCI 4970   | CAPSTONE PROJECT (^)   |           |
| CSCI 4000   | ASSESSMENT (^)   |           |
| <b>Information Assurance Concentration - 18 Hours</b>   |  |           |
| <b>All of the following:</b>  |  | <b>9</b>  |
| CYBR 3600   | CYBERSECURITY POLICY AND AWARENESS (^)   |           |
| CYBR 3050<br>or CYBR 4360   | PRINCIPLES OF CYBER OPERATIONS AND DEFENSE<br>PRINCIPLES OF SECURE SYSTEM DESIGN |           |
| CSCI 4380   | DIGITAL FORENSICS (^)  |           |
| <b>Select 3 courses from the following:</b>   |  | <b>9</b>  |
| CYBR 2600   | SYSTEM ADMINISTRATION (^)  |           |
| CSCI 3450   | NATURAL LANGUAGE PROCESSING (^)  |           |
| CYBR 4390   | MOBILE DEVICE FORENSICS (^)  |           |
| CYBR/CSCI 4430  | QUANTUM COMPUTING AND CRYPTOGRAPHY (^)   |           |
| CYBR 4440   | INDUSTRIAL CONTROL SYSTEM SECURITY (^)   |           |
| CYBR 4450   | ETHICAL HACKING - MALWARE ANALYSIS (^)   |           |
| CYBR 4460   | ETHICAL HACKING - NETWORK ANALYSIS (^)   |           |

|   |   |           |
|---|---|-----------|
| CYBR 4540   | COMPUTER SECURITY MANAGEMENT (^)                            |           |
| CSCI/MATH 4560<br>or CYBR 3570  | NUMBER THEORY & CRYPTOGRAPHY (^)<br>CRYPTOGRAPHY            |           |
| <b>Extension Courses - Complete 3 credit hours</b>  |   | <b>3</b>  |
| Complete 3 additional hours of upper-level CSCI coursework (3XXX or 4XXX level) not used to meet other degree or concentration requirements. <sup>1</sup> |   |           |
| <b>Math Courses - All of the following:</b>   |   | <b>15</b> |
| MATH 1950   | CALCULUS I (^)  |           |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)            |           |
| CSCI 2040   | INTRODUCTION TO MATHEMATICAL PROOFS (^)                     |           |
| MATH 2050   | APPLIED LINEAR ALGEBRA (^)                                  |           |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)             |           |
| <b>Science Courses - Complete 7 credit hours from the following list, representing at least 2 disciplines with a minimum of 1 laboratory course**</b>     |   | <b>7</b>  |
| PHYS 1050   | INTRODUCTION TO PHYSICS (**)                                |           |
| PHYS 1054   | INTRODUCTION TO PHYSICS LABORATORY (**)                     |           |
| PHYS 1110   | PHYSICS FOR LIFE SCIENCE I (** ^)                           |           |
| PHYS 1154   | GENERAL PHYSICS LABORATORY I (** ^)                         |           |
| PHYS 2110   | GENERAL PHYSICS I - CALCULUS LEVEL (** ^)                   |           |
| CHEM 1010   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY (** ^)             |           |
| CHEM 1014   | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (** ^)  |           |
| CHEM 1140   | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)                    |           |
| CHEM 1144   | FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)         |           |
| CHEM 1170   | GENERAL CHEMISTRY II-I (** ^)                               |           |
| CHEM 1180   | GENERAL CHEMISTRY I (** ^)                                  |           |
| CHEM 1184   | GENERAL CHEMISTRY I LABORATORY (** ^)                       |           |
| BIOL 1450   | BIOLOGY I (** ^)  |           |
| BMCH 2400   | HUMAN PHYSIOLOGY & ANATOMY I (**)                           |           |
| GEOL 1170   | INTRODUCTION TO PHYSICAL GEOLOGY (**)                       |           |
| GEOL 1100   | EARTH SYSTEM SCIENCE (**)                                   |           |
| GEOL 1104   | EARTH SYSTEM SCIENCE LAB (**)                               |           |
| GEOG 1030   | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**) |           |
| GEOG 1050   | HUMAN-ENVIRONMENT GEOGRAPHY (**)                            |           |
| GEOG 1090   | INTRODUCTION TO GEOSPATIAL SCIENCES (**)                    |           |
| GEOG 3510   | METEOROLOGY (**)  |           |
| GEOG 3514   | INTRODUCTION TO METEOROLOGY LABORATORY (** ^)               |           |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

<sup>1</sup> Upper-level CSCI transfer credits can also be applied towards this requirement.

## Computer Science Minor

### Computer Science Minor Requirements

A minor in computer science can be obtained by completing the following 18 hours:

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>All of the following</b>   |  | <b>12</b> |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I           |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II          |           |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE |           |
| CSCI 3320   | DATA STRUCTURES                              |           |
| <b>Computer Science Courses - Select 6 additional hours of CSCI coursework at the 3000 level or above</b> |  | <b>6</b>  |

In all cases, students are responsible for completing any courses identified as prerequisites or co-requisite for the courses in the minor.

In addition, students must have a grade of C- or better in any prerequisite for a CSCI course.

## Information Systems and Quantitative Analysis

The study of Information Systems and Quantitative Analysis involves application of computers, mathematics, statistics, and other quantitative techniques in the solutions of a wide variety of business problems. While computer science often concentrates on building the computer tools which make computers useful, it is information systems and quantitative analysis that specifically focus on effectively applying these tools in the solutions of everyday business problems.

## Bachelor of Science in Management Information Systems

The Bachelor of Science in Management Information Systems degree will provide students with the educational background for pursuing an exciting career in applying information technology in business and government to process data and solve a wide variety of business problems.

## Accreditation Information

The Bachelor of Science in Management Information Systems has been accredited by the Computing Accreditation Commission of ABET, Inc., the recognized accreditor of college and university programs in applied science, computing, engineering, and technology. ABET accreditation demonstrates a program's commitment to providing its students with a quality education.

General information about the College of IS&T's accreditation as well as specific educational objectives for its ABET accredited program in Management Information Systems can be found at (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/abet-accreditation.php>) or (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/abet-accreditation.php>).

## Contact

For more information about the MIS undergraduate program, contact the academic advising office at 402.554.3819.

**Website (<https://www.unomaha.edu/college-of-information-science-and-technology/information-systems-and-quantitative-analysis/mis.php>)**

## Degrees Offered:

- Management Information Systems, Bachelor of Science (p. 660)

## Minor Offered

- Minor in Management Information Systems (p. 669)

## Certificates Offered

- Data Management Certificate (p. 669)
- Systems Development Certificate (p. 669)
- Information Technology Administration Certificate (p. 670)

Undergraduate certificates allow the College of IS&T to offer a path for individuals who do not hold a bachelor's degree to advance their education along a focused, profession-oriented course of study and to have those studies acknowledged, documented, and later, should the student so desire, applied to a related bachelor's degree program.

The goal of the certificate is to provide non-traditional and traditional students an opportunity to take a focused set of undergraduate courses and earn a certificate of completion. For prospective certificate students already in the workforce who have earned an associate's degree, such certifications may fit with organizational professional development requirements and could be used, at the discretion of the organization, as professional development units (PDUs).

The Bachelor of Science in Management Information Systems degree will provide students with the educational background to solve problems using technology for businesses, government, and nonprofit organizations.

## Career Options:

- Business Process Analyst
- Chief Information Officer
- Data Scientist
- Database Administrator
- Information Systems Manager
- IT Consultant
- IT Security Manager
- IT Technical Support Officer
- Network Architect
- Quality Assurance Specialist
- Software Engineer
- Systems Analyst

## Management Information Systems, Bachelor of Science

Information is the lens through which we see the world. Information systems professionals use technology to put information to use to bring value to people, organizations, and societies. The Bachelor of Science in Management Information Systems degree provides students with the



skills and educational background to develop & manage an organization's information resources, technology, and infrastructure.

Students pursuing a degree in Management Information Systems will learn how the computer-based information systems can be applied to improve organizational operations and decision-making, enhance products and services, and create new opportunities for business success. The study of information systems and quantitative analysis prepares students for career opportunities in business data management; data analytics, management information systems, systems analysis and design, decision support, information security, digital transformation, and other related areas.

## Fast Track

The department of Information Systems and Quantitative Analysis (ISQA) has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate credit hours towards the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

### Program Specifics:

- This program is available for undergraduate students pursuing any CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Contact

For more information, contact the College of IS&T Academic Advising Office at 402.554.3819.

**Website** (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/advising.php>)

## Management Information Systems, Bachelor of Science in Management Information Systems Requirements

A minimum of 120 credit hours is required for a Bachelor of Science degree in Management Information Systems. Thirty of the last 36 hours must be University of Nebraska at Omaha (UNO) courses. Registering for courses without having taken the stated prerequisites could result in administrative withdrawal.

To obtain a Bachelor of Science in Management Information Systems, a student must fulfill the University, College and Departmental requirements. Some courses may satisfy requirements in more than one area, but credit is awarded only once, thereby reducing the total number of credit hours for the degree to 120. (This total does not include prerequisites; students are accountable for all prerequisite courses.)

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 75 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following:</b>  |   | <b>60</b> |



|  |  |
|--|--|
| CYBR 1100  | INTRODUCTION TO INFORMATION SECURITY (**)                  |
| CIST 1300  | INTRODUCTION TO WEB DEVELOPMENT (^)                        |
| CIST 1400  | INTRODUCTION TO COMPUTER SCIENCE I (^)                     |
| MATH 1930  | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |
| or MATH 1370   | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS        |
| CIST 2100  | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (** ^)          |
| ACCT 2010  | PRINCIPLES OF ACCOUNTING I (^)                             |
| ACCT 2020  | PRINCIPLES OF ACCOUNTING II (^)                            |
| ECON 2200  | PRINCIPLES OF ECONOMICS (MICRO) (**^)                      |
| ECON 2220  | PRINCIPLES OF ECONOMICS (MACRO) (**^)                      |
| CIST 2500  | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)            |
| CIST 3000  | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)             |
| CIST 3110  | INFORMATION TECHNOLOGY ETHICS (**^)                        |
| ISQA 3310  | MANAGING THE DATABASE ENVIRONMENT (^)                      |
| ISQA 3400  | INFORMATION TECHNOLOGY INFRASTRUCTURE (^)                  |
| ISQA 3420  | MANAGING IN A DIGITAL WORLD (^)                            |
| ISQA 3900  | WEB APPLICATION DEVELOPMENT (^)                            |
| ISQA 3910  | INTRODUCTION TO PROJECT MANAGEMENT (^)                     |
| ISQA 4110  | INFORMATION SYSTEMS ANALYSIS (^)                           |
| ISQA 4120  | SYSTEM DESIGN AND IMPLEMENTATION (^)                       |
| ISQA 4900  | FULL STACK DEVELOPMENT (^)                                 |
| <b>Business Co-Requirement - Select 1 course from the following:</b> |  |
| ACCT 3080  | ACCOUNTING INFORMATION SYSTEMS (^)                         |
| ECON 3200  | ECONOMIC THEORY: MICRO (^)                                 |
| ECON 3220  | ECONOMIC THEORY: MACRO (^)                                 |
| ENTR 3710  | ENTREPRENEURIAL FOUNDATIONS (^)                            |
| FNBK 3250  | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                     |
| MKT 3310   | PRINCIPLES OF MARKETING (^)                                |
| MGMT 4030  | HUMAN RESOURCE MANAGEMENT (^)                              |
| MGMT 4090  | MANAGING COLLABORATIVE ENGAGEMENT (^)                      |

**Specialization Courses – Select 12 credits from the following\*:**

12

|           |  |
|-----------|--|
| ACCT 4060 | ADVANCED MANAGERIAL ACCOUNTING (^)     |
| ACCT 4080 | PRINCIPLES OF AUDITING (^)             |
| ACCT 4090 | INFORMATION SYSTEMS AUDITING (^)       |
| ACMP 4360 | METaverse INNOVATIONS                  |
| CYBR 2600 | SYSTEM ADMINISTRATION (^)              |
| CYBR 3600 | CYBERSECURITY POLICY AND AWARENESS (^) |

|           |   |
|-----------|---|
| CYBR 4360 | PRINCIPLES OF SECURE SYSTEM DESIGN (^)                                |
| CYBR 4540 | COMPUTER SECURITY MANAGEMENT (^)                                      |
| CSCI 2850 | PROGRAMMING ON THE INTERNET (^)                                       |
| CSCI 3830 | ADVANCED JAVA PROGRAMMING (^)   |
| ISQA 3520 | GRAPHICAL USER INTERFACE DESIGN (^)                                   |
| ISQA 4000 | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS (^)       |
| ISQA 4010 | BUSINESS INTELLIGENCE (^)   |
| ISQA 4060 | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS (^)       |
| ISQA 4070 | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS (^)       |
| ISQA 4100 | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION (^)                 |
| ISQA 4130 | INFORMATION TECHNOLOGY FOR DEVELOPMENT (^)                            |
| ISQA 4150 | ADVANCED STATISTICAL METHODS FOR IS&T (^)                             |
| ISQA 4160 | ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING (^)                  |
| ISQA 4170 | DIGITAL SUPPLY CHAIN & LOGISTICS (^)                                  |
| ISQA 4180 | ELECTRONIC COMMERCE (^)   |
| ISQA 4190 | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY (^)                 |
| ISQA 4200 | INFORMATION AND DATA QUALITY MANAGEMENT (^)                           |
| ISQA 4300 | DATABASE ADMINISTRATION (^)   |
| ISQA 4380 | DISTRIBUTED TECHNOLOGIES AND SYSTEMS (^)                              |
| ISQA 4500 | SPECIAL PROBLEMS IN INFORMATION SYSTEMS AND QUANTITATIVE ANALYSIS (^) |
| ISQA 4510 | INFORMATION SYSTEMS INTERNSHIP (^)                                    |
| ISQA 4730 | DECISION SUPPORT SYSTEMS (^)  |
| ISQA 4880 | SYSTEMS SIMULATION AND MODELING (^)                                   |
| ISQA 4890 | DATA WAREHOUSING AND DATA MINING (^)                                  |

\*This area may also be used to complete concentration requirements

## ELECTIVES

#Elective hours as required to reach a total of 120 hours

## Optional Concentrations

Coursework taken to complete an optional MIS concentration also satisfies the 12 hours of specialization coursework within the MIS degree.

- Data Science Concentration (p. 666)
- Internet Technologies Concentration for MIS Majors (p. 667)
- i-Business Application Development and Management (p. 664)
- Information Assurance Concentration for MIS Majors (p. 665)
- IT Audit and Control (p. 668)

# Management Information Systems, Bachelor of Science in Management Information Systems Four Year Plan

## First Year

| Fall                      |   | Credits   |
|---------------------------|---|-----------|
| ENGL 1150                 | ENGLISH COMPOSITION I   | 3         |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE  | 3         |
| CIST 1300                 | INTRODUCTION TO WEB DEVELOPMENT   | 3         |
| MATH 1930<br>or MATH 1370 | CALCULUS FOR THE MANAGERIAL, LIFE,<br>AND SOCIAL SCIENCES <sup>1</sup><br>or APPLIED ALGEBRA AND<br>OPTIMIZATION WITH DATA ANALYSIS | 3         |
| CYBR 1100                 | INTRODUCTION TO INFORMATION<br>SECURITY   | 3         |
| <b>Credits</b>            |   | <b>15</b> |

## Spring

|                                      |  |           |
|--------------------------------------|--|-----------|
| ENGL 1160                            | COLLEGE RESEARCH AND<br>INFORMATION LITERACY   | 3         |
| CIST 1400                            | INTRODUCTION TO COMPUTER<br>SCIENCE I          | 3         |
| CIST 2500                            | INTRODUCTION TO APPLIED STATISTICS<br>FOR IS&T | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

## Second Year

| Fall                                 |   | Credits   |
|--------------------------------------|---|-----------|
| ACCT 2010                            | PRINCIPLES OF ACCOUNTING I                    | 3         |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)               | 3         |
| CIST 2100                            | ORGANIZATIONS, APPLICATIONS AND<br>TECHNOLOGY | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

## Spring

|                                      |                                      |           |
|--------------------------------------|--------------------------------------|-----------|
| ACCT 2020                            | PRINCIPLES OF ACCOUNTING II          | 3         |
| CIST 3110                            | INFORMATION TECHNOLOGY ETHICS        | 3         |
| ISQA 3310                            | MANAGING THE DATABASE<br>ENVIRONMENT | 3         |
| ECON 2220                            | PRINCIPLES OF ECONOMICS (MACRO)      | 3         |
| General Education Course or Elective |                                      | 3         |
| <b>Credits</b>                       |                                      | <b>15</b> |

## Third Year

| Fall                                   |   | Credits   |
|--|---|-----------|
| ISQA 3400                              | INFORMATION TECHNOLOGY<br>INFRASTRUCTURE      | 3         |
| ISQA 3900                              | WEB APPLICATION DEVELOPMENT                   | 3         |
| ISQA 3420                              | MANAGING IN A DIGITAL WORLD                   | 3         |
| CIST 3000                              | TECHNICAL WRITING &<br>COMMUNICATION FOR IS&T | 3         |
| Specialization or Concentration Course |   | 3         |
| <b>Credits</b>                         |   | <b>15</b> |

## Spring

|           |                                       |   |
|-----------|---------------------------------------|---|
| ISQA 3910 | INTRODUCTION TO PROJECT<br>MANAGEMENT | 3 |
|-----------|---------------------------------------|---|

|   |                        |   |
|---|------------------------|---|
| ISQA 4900   | FULL STACK DEVELOPMENT | 3 |
| Business Co-requirement: See list of approved courses |                        | 3 |
| General Education Course or Elective                  |                        | 3 |
| General Education Course or Elective                  |                        | 3 |

**Credits 15**

## Fourth Year

| Fall                                   |                              | Credits |
|--|------------------------------|---------|
| ISQA 4110                              | INFORMATION SYSTEMS ANALYSIS | 3       |
| Specialization or Concentration Course |                              | 3       |
| General Education Course or Elective   |                              | 3       |
| General Education Course or Elective   |                              | 3       |
| General Education Course or Elective   |                              | 3       |

**Credits 15**

## Spring

|  |                                  |   |
|--|----------------------------------|---|
| ISQA 4120                              | SYSTEM DESIGN AND IMPLEMENTATION | 3 |
| Specialization or Concentration Course |                                  | 3 |
| Specialization or Concentration Course |                                  | 3 |
| General Education Course or Elective   |                                  | 3 |
| General Education Course or Elective   |                                  | 3 |

**Credits 15**

**Total Credits 120**

<sup>1</sup> MATH 1930 or MATH 1370 - Satisfy General Education Quantitative Literacy requirement

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific degree program to determine all requirements for the program. In order to graduate on time (four years for an undergraduate degree), you need to take 30 credit hours each year.

**Placement Exams:** For Math, English, and Foreign Languages, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Please note that transfer credit or placement exam scores may change a suggested plan of study.

# i-Business Application Development and Management Concentration

## Management Information Systems, Bachelor of Science in Management Information Systems - i-Business Application Development and Management Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 75 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the Following:</b>  |   | <b>60</b> |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)               |           |
| CIST 1300   | INTRODUCTION TO WEB DEVELOPMENT (^)                     |           |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                  |           |

|   |   |
|---|---|
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)      |
| or MATH 1370  | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS             |
| CIST 2100   | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (**^)                |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                                  |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                                 |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (**^)                           |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                          |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)                 |
| CIST 3000   | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)                  |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (**^)                             |
| ISQA 3310   | MANAGING THE DATABASE ENVIRONMENT (^)                           |
| ISQA 3400   | INFORMATION TECHNOLOGY INFRASTRUCTURE (^)                       |
| ISQA 3420   | MANAGING IN A DIGITAL WORLD (^)                                 |
| ISQA 3900   | WEB APPLICATION DEVELOPMENT (^)                                 |
| ISQA 3910   | INTRODUCTION TO PROJECT MANAGEMENT (^)                          |
| ISQA 4110   | INFORMATION SYSTEMS ANALYSIS (^)                                |
| ISQA 4120   | SYSTEM DESIGN AND IMPLEMENTATION (^)                            |
| ISQA 4900   | FULL STACK DEVELOPMENT (^)                                      |
| <b>Business Co-Requirement - Select 1 course from the following:</b>                |   |
| ACCT 3080   | ACCOUNTING INFORMATION SYSTEMS (^)                              |
| ECON 3200   | ECONOMIC THEORY: MICRO (^)                                      |
| ECON 3220   | ECONOMIC THEORY: MACRO (^)                                      |
| ENTR 3710   | ENTREPRENEURIAL FOUNDATIONS (^)                                 |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                          |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                     |
| MGMT 4030   | HUMAN RESOURCE MANAGEMENT (^)                                   |
| MGMT 4090   | MANAGING COLLABORATIVE ENGAGEMENT (^)                           |
| <b>i-Business Application Development &amp; Management Concentration - 12 Hours</b> |   |
| <b>All of the following:</b>  |   |
| ISQA 4180   | ELECTRONIC COMMERCE (^)   |
| ISQA 4380   | DISTRIBUTED TECHNOLOGIES AND SYSTEMS (^)                        |
| <b>Select 2 courses from the following:</b>   |   |
| ISQA 3520   | GRAPHICAL USER INTERFACE DESIGN (^)                             |
| ISQA 4000   | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS (^) |
| ISQA 4100   | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION (^)           |
| ISQA 4190   | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY (^)           |
| CYBR 3600   | CYBERSECURITY POLICY AND AWARENESS (^)                          |

**ELECTIVES**

#Elective hours as required to reach a total of 120 hours

# Information Assurance Concentration for MIS Majors

## Management Information Systems, Bachelor of Science in Management Information Systems - Information Assurance Concentration Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**General Education Requirements - 34 Hours Required**

Minimum of "C-" required

**Fundamental Skills 15****Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 75 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the Following: 60**

CYBR 1100 INTRODUCTION TO INFORMATION SECURITY (\*\*)

CIST 1300 INTRODUCTION TO WEB DEVELOPMENT (^)

CIST 1400 INTRODUCTION TO COMPUTER SCIENCE I (^)

MATH 1930 CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)

or MATH 1370 APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS

CIST 2100 ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (\*\*^)

ACCT 2010 PRINCIPLES OF ACCOUNTING I (^)

ACCT 2020 PRINCIPLES OF ACCOUNTING II (^)

ECON 2200 PRINCIPLES OF ECONOMICS (MICRO) (\*\* ^)

ECON 2220 PRINCIPLES OF ECONOMICS (MACRO) (\*\* ^)

CIST 2500 INTRODUCTION TO APPLIED STATISTICS FOR IS&amp;T (^)

CIST 3000 TECHNICAL WRITING &amp; COMMUNICATION FOR IS&amp;T (^)

CIST 3110 INFORMATION TECHNOLOGY ETHICS (\*\*^)

ISQA 3310 MANAGING THE DATABASE ENVIRONMENT (^)

ISQA 3400 INFORMATION TECHNOLOGY INFRASTRUCTURE (^)

ISQA 3420 MANAGING IN A DIGITAL WORLD (^)

ISQA 3900 WEB APPLICATION DEVELOPMENT (^)

ISQA 3910 INTRODUCTION TO PROJECT MANAGEMENT (^)

ISQA 4110 INFORMATION SYSTEMS ANALYSIS (^)

ISQA 4120 SYSTEM DESIGN AND IMPLEMENTATION (^)

ISQA 4900 FULL STACK DEVELOPMENT (^)

**Business Co-Requirement - Select 1 course from the following: 3**

ACCT 3080 ACCOUNTING INFORMATION SYSTEMS (^)

ECON 3200 ECONOMIC THEORY: MICRO (^)

ECON 3220 ECONOMIC THEORY: MACRO (^)

ENTR 3710 ENTREPRENEURIAL FOUNDATIONS (^)

FNBK 3250 PRINCIPLES OF FINANCIAL MANAGEMENT (^)

MKT 3310 PRINCIPLES OF MARKETING (^)

MGMT 4030 HUMAN RESOURCE MANAGEMENT (^)

MGMT 4090 MANAGING COLLABORATIVE ENGAGEMENT (^)

**Information Assurance Concentration - Complete all of the following 12**

CYBR 2600 SYSTEM ADMINISTRATION (^)

CYBR 3600 CYBERSECURITY POLICY AND AWARENESS (^)

CYBR 3050 PRINCIPLES OF CYBER OPERATIONS AND DEFENSE

or CYBR 4360 PRINCIPLES OF SECURE SYSTEM DESIGN

CYBR 4540 COMPUTER SECURITY MANAGEMENT (^)

**ELECTIVES**

#Elective hours as required to reach a total of 120 hours

# Data Science Concentration

## Management Information Systems, Bachelor of Science in Management Information Systems - Data Science Concentration Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |  |           |
| Minimum of "C-" required  |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                      |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                  |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                      |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 75 Hours Required</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the Following:</b>  |  | <b>60</b> |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)                  |           |
| CIST 1300   | INTRODUCTION TO WEB DEVELOPMENT (^)                        |           |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                     |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| or MATH 1370  | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS        |           |
| CIST 2100   | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (**^)           |           |

|  |   |          |
|--|---|----------|
| ACCT 2010  | PRINCIPLES OF ACCOUNTING I (^)                  |          |
| ACCT 2020  | PRINCIPLES OF ACCOUNTING II (^)                 |          |
| ECON 2200  | PRINCIPLES OF ECONOMICS (MICRO) (**^)           |          |
| ECON 2220  | PRINCIPLES OF ECONOMICS (MACRO) (**^)           |          |
| CIST 2500  | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^) |          |
| CIST 3000  | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)  |          |
| CIST 3110  | INFORMATION TECHNOLOGY ETHICS (**^)             |          |
| ISQA 3310  | MANAGING THE DATABASE ENVIRONMENT (^)           |          |
| ISQA 3400  | INFORMATION TECHNOLOGY INFRASTRUCTURE (^)       |          |
| ISQA 3420  | MANAGING IN A DIGITAL WORLD (^)                 |          |
| ISQA 3900  | WEB APPLICATION DEVELOPMENT (^)                 |          |
| ISQA 3910  | INTRODUCTION TO PROJECT MANAGEMENT (^)          |          |
| ISQA 4110  | INFORMATION SYSTEMS ANALYSIS (^)                |          |
| ISQA 4120  | SYSTEM DESIGN AND IMPLEMENTATION (^)            |          |
| ISQA 4900  | FULL STACK DEVELOPMENT (^)                      |          |
| <b>Business Co-Requirement - Select 1 course from the following:</b> |   | <b>3</b> |
| ACCT 3080  | ACCOUNTING INFORMATION SYSTEMS (^)              |          |
| ECON 3200  | ECONOMIC THEORY: MICRO (^)                      |          |
| ECON 3220  | ECONOMIC THEORY: MACRO (^)                      |          |
| ENTR 3710  | ENTREPRENEURIAL FOUNDATIONS (^)                 |          |
| FNBK 3250  | PRINCIPLES OF FINANCIAL MANAGEMENT (^)          |          |
| MKT 3310   | PRINCIPLES OF MARKETING (^)                     |          |
| MGMT 4030  | HUMAN RESOURCE MANAGEMENT (^)                   |          |
| MGMT 4090  | MANAGING COLLABORATIVE ENGAGEMENT (^)           |          |

|   |  |          |
|---|--|----------|
| <b>Data Science Concentration - 12 Hours Required</b>                 |  |          |
| <b>All of the following:</b>  |  | <b>6</b> |
| ISQA 4010   | BUSINESS INTELLIGENCE (^)  |          |
| ISQA 4200   | INFORMATION AND DATA QUALITY MANAGEMENT (^)                          |          |
| <b>Select 2 courses from the following:</b>                           |  | <b>6</b> |
| ISQA 4000   | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS (^)<br>1 |          |
| ISQA 4150   | ADVANCED STATISTICAL METHODS FOR IS&T (^)                            |          |
| ISQA 4730   | DECISION SUPPORT SYSTEMS (^)   |          |
| Other courses as approved by the MIS undergraduate program committee. |  |          |

### ELECTIVES

#Elective hours as required to reach a total of 120 hours

<sup>1</sup> ISQA 4000 special topic must be related to Data Science. Approval from the MIS undergraduate program committee is required prior to taking the course.

# Internet Technologies Concentration for MIS Majors

## Management Information Systems, Bachelor of Science in Management Information Systems - Internet Technologies Concentration Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |  |           |
| Minimum of "C-" required  |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                      |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                  |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                      |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 75 Hours Required</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the Following:</b>  |  | <b>60</b> |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)                  |           |
| CIST 1300   | INTRODUCTION TO WEB DEVELOPMENT (^)                        |           |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                     |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| or MATH 1370  | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS        |           |

|   |   |   |
|---|---|---|
| CIST 2100   | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (**^)                |   |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                                  |   |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                                 |   |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (**^)                           |   |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (**^)                           |   |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)                 |   |
| CIST 3000   | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)                  |   |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (**^)                             |   |
| ISQA 3310   | MANAGING THE DATABASE ENVIRONMENT (^)                           |   |
| ISQA 3400   | INFORMATION TECHNOLOGY INFRASTRUCTURE (^)                       |   |
| ISQA 3420   | MANAGING IN A DIGITAL WORLD (^)                                 |   |
| ISQA 3900   | WEB APPLICATION DEVELOPMENT (^)                                 |   |
| ISQA 3910   | INTRODUCTION TO PROJECT MANAGEMENT (^)                          |   |
| ISQA 4110   | INFORMATION SYSTEMS ANALYSIS (^)                                |   |
| ISQA 4120   | SYSTEM DESIGN AND IMPLEMENTATION (^)                            |   |
| ISQA 4900   | FULL STACK DEVELOPMENT (^)                                      |   |
| Business Co-Requirement - Select 1 course from the following: |   | 3 |
| ACCT 3080   | ACCOUNTING INFORMATION SYSTEMS (^)                              |   |
| ECON 3200   | ECONOMIC THEORY: MICRO (^)                                      |   |
| ECON 3220   | ECONOMIC THEORY: MACRO (^)                                      |   |
| ENTR 3710   | ENTREPRENEURIAL FOUNDATIONS (^)                                 |   |
| FNBK 3250   | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                          |   |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                                     |   |
| MGMT 4030   | HUMAN RESOURCE MANAGEMENT (^)                                   |   |
| MGMT 4090   | MANAGING COLLABORATIVE ENGAGEMENT (^)                           |   |
| Internet Technologies Concentration - 12 Hours Required       |   |   |
| All of the following:   |   | 6 |
| CSCI 2850   | PROGRAMMING ON THE INTERNET (^)                                 |   |
| CSCI 3830   | ADVANCED JAVA PROGRAMMING (^)                                   |   |
| Select 2 courses from the following:                          |   | 6 |
| CYBR 3600   | CYBERSECURITY POLICY AND AWARENESS (^)                          |   |
| ISQA 3520   | GRAPHICAL USER INTERFACE DESIGN (^)                             |   |
| ISQA 4000   | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS (^) |   |
| ISQA 4180   | ELECTRONIC COMMERCE (^)   |   |
| ISQA 4300   | DATABASE ADMINISTRATION (^)                                     |   |
| ISQA 4730   | DECISION SUPPORT SYSTEMS (^)                                    |   |
| ISQA 4880   | SYSTEMS SIMULATION AND MODELING (^)                             |   |
| ISQA 4890   | DATA WAREHOUSING AND DATA MINING (^)                            |   |

### ELECTIVES

#Elective hours as required to reach a total of 120 hours



# IT Audit and Control Concentration

## Management Information Systems, Bachelor of Science in Management Information Systems - IT Audit and Control Concentration Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |  |           |
| Minimum of "C-" required  |  |           |
| <b>Fundamental Skills</b>   |  | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |  |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                      |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                  |           |
| <b>Oral Communication – 3 hrs.</b>  |  |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                      |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |  |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING    |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 75 Hours Required</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the Following:</b>  |  | <b>60</b> |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)                  |           |
| CIST 1300   | INTRODUCTION TO WEB DEVELOPMENT (^)                        |           |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                     |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| or MATH 1370  | APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS        |           |

|  |  |          |
|--|--|----------|
| CIST 2100  | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (**^)                     |          |
| ACCT 2010  | PRINCIPLES OF ACCOUNTING I (^)                                       |          |
| ACCT 2020  | PRINCIPLES OF ACCOUNTING II (^)                                      |          |
| ECON 2200  | PRINCIPLES OF ECONOMICS (MICRO) (**^)                                |          |
| ECON 2220  | PRINCIPLES OF ECONOMICS (MACRO) (**^)                                |          |
| CIST 2500  | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)                      |          |
| CIST 3000  | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)                       |          |
| CIST 3110  | INFORMATION TECHNOLOGY ETHICS (**^)                                  |          |
| ISQA 3310  | MANAGING THE DATABASE ENVIRONMENT (^)                                |          |
| ISQA 3400  | INFORMATION TECHNOLOGY INFRASTRUCTURE (^)                            |          |
| ISQA 3420  | MANAGING IN A DIGITAL WORLD (^)                                      |          |
| ISQA 3900  | WEB APPLICATION DEVELOPMENT (^)                                      |          |
| ISQA 3910  | INTRODUCTION TO PROJECT MANAGEMENT (^)                               |          |
| ISQA 4110  | INFORMATION SYSTEMS ANALYSIS (^)                                     |          |
| ISQA 4120  | SYSTEM DESIGN AND IMPLEMENTATION (^)                                 |          |
| ISQA 4900  | FULL STACK DEVELOPMENT (^)   |          |
| <b>Business Co-Requirement - Select 1 course from the following:</b> |  | <b>3</b> |
| ACCT 3080  | ACCOUNTING INFORMATION SYSTEMS (^)                                   |          |
| ECON 3200  | ECONOMIC THEORY: MICRO (^)   |          |
| ECON 3220  | ECONOMIC THEORY: MACRO (^)   |          |
| ENTR 3710  | ENTREPRENEURIAL FOUNDATIONS (^)                                      |          |
| FNBK 3250  | PRINCIPLES OF FINANCIAL MANAGEMENT (^)                               |          |
| MKT 3310   | PRINCIPLES OF MARKETING (^)  |          |
| MGMT 4030  | HUMAN RESOURCE MANAGEMENT (^)  |          |
| MGMT 4090  | MANAGING COLLABORATIVE ENGAGEMENT (^)                                |          |
| <b>IT Audit &amp; Control Concentration - 12 Hours Required</b>      |  |          |
| <b>All of the following:</b>   |  | <b>6</b> |
| CYBR 3600  | CYBERSECURITY POLICY AND AWARENESS (^)                               |          |
| ACCT 4080  | PRINCIPLES OF AUDITING (^)   |          |
| <b>Complete 6 credit hours from the following:</b>                   |  | <b>6</b> |
| ACCT 4060  | ADVANCED MANAGERIAL ACCOUNTING (^)                                   |          |
| ACCT 4090  | INFORMATION SYSTEMS AUDITING (^)                                     |          |
| CYBR 2600  | SYSTEM ADMINISTRATION (^)  |          |
| CYBR 4540  | COMPUTER SECURITY MANAGEMENT (^)                                     |          |
| ISQA 4000  | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS (^)      |          |
| ISQA 4190  | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY (^)                |          |
| ISQA 4500  | SPECIAL PROBLEMS IN INFOMATION SYSTEMS AND QUANTITATIVE ANALYSIS (^) |          |
| ISQA 4510  | INFORMATION SYSTEMS INTERNSHIP (^)                                   |          |

**ELECTIVES**

#Elective hours as required to reach a total of 120 hours

## Management Information Systems Minor

### Management Information Systems Minor Requirements

A grade of "C-" or better is required in each course applied toward the minor in Management Information Systems (MIS). Students are responsible for completing the prerequisites for all courses taken for the minor in MIS.

A minor in Management Information Systems may be obtained by completing the following courses:

| Code  | Title   | Credits  |
|---|---|----------|
| <b>15 Hours Required</b>                        |   |          |
| <b>All of the following</b>                     |   | <b>6</b> |
| ISQA 3310                                       | MANAGING THE DATABASE ENVIRONMENT                           |          |
| ISQA 3910                                       | INTRODUCTION TO PROJECT MANAGEMENT                          |          |
| <b>Select one of the following:<sup>1</sup></b> |   | <b>3</b> |
| ISQA 3420                                       | MANAGING IN A DIGITAL WORLD                                 |          |
| ISQA 3900                                       | WEB APPLICATION DEVELOPMENT                                 |          |
| ISQA 4110                                       | INFORMATION SYSTEMS ANALYSIS                                |          |
| <b>Select 6 hours from the following:</b>       |   | <b>6</b> |
| ISQA 3400                                       | INFORMATION TECHNOLOGY INFRASTRUCTURE                       |          |
| ISQA 3520                                       | GRAPHICAL USER INTERFACE DESIGN                             |          |
| ISQA 4000                                       | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS |          |
| ISQA 4010                                       | BUSINESS INTELLIGENCE                                       |          |
| ISQA 4100                                       | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION           |          |
| ISQA 4120                                       | SYSTEM DESIGN AND IMPLEMENTATION                            |          |
| ISQA 4130                                       | INFORMATION TECHNOLOGY FOR DEVELOPMENT                      |          |
| ISQA 4150                                       | ADVANCED STATISTICAL METHODS FOR IS&T                       |          |
| ISQA 4160                                       | ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING            |          |
| ISQA 4170                                       | DIGITAL SUPPLY CHAIN & LOGISTICS                            |          |
| ISQA 4180                                       | ELECTRONIC COMMERCE   |          |
| ISQA 4200                                       | INFORMATION AND DATA QUALITY MANAGEMENT                     |          |
| ISQA 4300                                       | DATABASE ADMINISTRATION                                     |          |
| ISQA 4380                                       | DISTRIBUTED TECHNOLOGIES AND SYSTEMS                        |          |
| ISQA 4730                                       | DECISION SUPPORT SYSTEMS                                    |          |
| ISQA 4880                                       | SYSTEMS SIMULATION AND MODELING                             |          |
| ISQA/CSCI 4890                                  | DATA WAREHOUSING AND DATA MINING                            |          |
| CIST 4910                                       | SYSTEMS DEVELOPMENT IN OPEN SOURCE COMMUNITIES              |          |

<sup>1</sup> Additional courses can be used to satisfy the 6 additional credit hours needed for the minor.

## Data Management Certificate

Data Management (DM) is the practice of managing data-related issues for an organization. Data management practitioners seek to optimize the design, storage, and use of organizational data.

### Data Management Certificate Requirements

The certificate in Data Management is open to anyone with an associate's or bachelor's degree in IT. UNO students enrolled in the Division of Continuing Studies' Bachelor of Multidisciplinary Studies degree program with an IT-related concentration and students in any of the College of IS&T undergraduate degree programs are also eligible to enroll in this certificate program.

Students are responsible for completing the prerequisites for all courses taken for the Data Management Certificate.

#### Prerequisite Courses

| Code         | Title                                       | Credits |
|--------------|---|---------|
| CIST 2500    | INTRODUCTION TO APPLIED STATISTICS FOR IS&T | 3       |
| CIST 2100    | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY  | 3       |
| or MGMT 3100 | MANAGEMENT INFORMATION SYSTEMS              |         |

#### Requirements

| Code                                | Title                                   | Credits   |
|-------------------------------------|---|-----------|
| <b>15 Hours Required</b>            |   |           |
| <b>All of the following</b>         |   | <b>12</b> |
| ISQA 3310                           | MANAGING THE DATABASE ENVIRONMENT       |           |
| ISQA 4200                           | INFORMATION AND DATA QUALITY MANAGEMENT |           |
| ISQA 4300                           | DATABASE ADMINISTRATION                 |           |
| ISQA 4890                           | DATA WAREHOUSING AND DATA MINING        |           |
| <b>Select one of the following:</b> |   | <b>3</b>  |
| ISQA 4380                           | DISTRIBUTED TECHNOLOGIES AND SYSTEMS    |           |
| ISQA 4730                           | DECISION SUPPORT SYSTEMS                |           |

## Systems Development Certificate

Systems development practitioners seek to optimize the design, implementation, and use of information systems for organizational purposes.

### Systems Development Certificate Requirements

The certificate in Systems Development is open to anyone with an associate's or bachelor's degree in IT. UNO students enrolled in the Division of Continuing Studies' Bachelor of Multidisciplinary Studies degree program with an IT-related concentration and students in any of the College of IS&T undergraduate degree programs are also eligible to enroll in this certificate program.

Students are responsible for completing the prerequisites for all courses taken for the Systems Development Certificate.

| Code                        | Title                                      | Credits   |
|-----------------------------|--|-----------|
| <b>Prerequisite Courses</b> |  |           |
| CIST 1300                   | INTRODUCTION TO WEB DEVELOPMENT            | 3         |
| CIST 1400                   | INTRODUCTION TO COMPUTER SCIENCE I         | 3         |
| CIST 2100                   | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY | 3         |
| or MGMT 3100                | MANAGEMENT INFORMATION SYSTEMS             |           |
| <b>Code Title Credits</b>   |  |           |
| <b>15 Hours Required</b>    |  |           |
| <b>All of the following</b> |  | <b>15</b> |
| ISQA 3310                   | MANAGING THE DATABASE ENVIRONMENT          |           |
| ISQA 3900                   | WEB APPLICATION DEVELOPMENT                |           |
| ISQA 3910                   | INTRODUCTION TO PROJECT MANAGEMENT         |           |
| ISQA 4110                   | INFORMATION SYSTEMS ANALYSIS               |           |
| ISQA 4120                   | SYSTEM DESIGN AND IMPLEMENTATION           |           |

## Information Technology Administration Certificate

The undergraduate certificate in Information Technology (IT) Administration is designed for students who are interested in managing the complex technical infrastructure of today's organizations. The certificate is offered in partnership with the University of Agder in Norway (UiA), a sister university to UNO. The certificate consists of 12 credit hours of courses covering such areas as systems administration, network administration, database administration, security administration, and distributed systems. All courses are offered online. Students will take courses taught by both UNO and UiA instructors and will have the opportunity to work with students residing in a country other than their own.

## Information Technology (IT) Administration Certificate Requirements

The certificate in Information Technology (IT) Administration is open to anyone with an associate's or bachelor's degree in IT. UNO students enrolled in the Division of Continuing Studies' Bachelor of Multidisciplinary Studies degree program with an IT-related concentration and students in any of the College of IS&T undergraduate degree programs are also eligible to enroll in this certificate program.

Students are responsible for completing the prerequisites for all courses taken for the IT Administration Certificate.

| Code   | Title   | Credits |
|--|---|---------|
| <b>Prerequisite Courses</b>                  |   |         |
| CIST 1400                                    | INTRODUCTION TO COMPUTER SCIENCE I                    | 3       |
| or CIST 1600                                 | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING |         |
| And one additional course of programming     |   | 3       |
| CIST 2100                                    | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY            | 3       |
| One semester of database management:         |   | 3       |
| ISQA 3310                                    | MANAGING THE DATABASE ENVIRONMENT                     |         |
| or IS 201-Data Modeling and Database Systems |   |         |

| Code                         | Title  | Credits   |
|------------------------------|--|-----------|
| <b>12 Hours Required</b>     |  |           |
| <b>All of the following:</b> |  | <b>12</b> |
| ISQA 3400                    | INFORMATION TECHNOLOGY INFRASTRUCTURE <sup>1</sup> |           |
| ISQA 4300                    | DATABASE ADMINISTRATION <sup>1</sup>               |           |
| ISQA 4380                    | DISTRIBUTED TECHNOLOGIES AND SYSTEMS               |           |
| CYBR 2600                    | SYSTEM ADMINISTRATION <sup>1</sup>                 |           |

<sup>1</sup> NOTE: The following substitutions will be accepted:  
 IS 212 (UiA) IT Resource Operations (3 hours) in place of ISQA 3400.  
 IS 309 (UiA) Advanced Database Systems (3 hours) in place of ISQA 4300 (<http://catalog.unomaha.edu/search/?P=ISQA%204300>).  
 IS 213 (UiA) Open Source (3 hours) in place of CYBR 2600.

## Interdisciplinary Informatics (Si2)

The mission of the School of Interdisciplinary Informatics (Si2) is to provide students and faculty the opportunity to pursue their passions, to use technology in all its facets, and to be transformative. We collaborate to deliver individualized education, world-class research, and immersive experiences to create and harmonize knowledge from multiple disciplines.

The School of Interdisciplinary Informatics reflects the role and mission of UNO's College of Information Science & Technology and the University of Nebraska at Omaha in a number of ways. It is a direct response to the opportunities and challenges presented by information technology as it relates to economic growth for the state and region in applied IT areas such as medical informatics, innovation, and cybersecurity. The School encourages the enhancement and fostering of new educational, research and creative activities by bringing together practitioners, researchers and students in interdisciplinary fields of importance to the state and the University. The School is unique in the country and leads to increased national visibility of the University of Nebraska in the area of interdisciplinary information technology applications.

The School of Interdisciplinary Informatics addresses the following needs and demands of our academic, business, and community stakeholders:

1. Growth of interdisciplinary areas;
2. Facilitation of innovative partnerships with external constituents, including leveraging the expertise of the local community;
3. Recruitment of personnel;
4. Reduction of barriers to collaboration;
5. Flexible and agile structure for quick response to opportunities;
6. Solidification of regional and national recognition as an important resource for the study and advancement of IT in the domain of healthcare, biosciences, and information security;
7. Visibility of the college and its interdisciplinary focus;
8. A magnet for collaborative external funding;
9. Development of the next generation workforce to address local, regional and national needs in exciting, new interdisciplinary domains.

## Accreditation

As a requirement of standards set by the Higher Learning Commission (HLC), the accrediting body of the University of Nebraska at Omaha, each of our undergraduate degree programs performs a regular assessment of student learning outcomes. The process of program assessment and program reviews helps to ensure students are being provided with an

academically rigorous curriculum that also reflects the demands of a rapidly changing job market.

## Contact

For more information, contact the College of IS&T Academic Advising Office at 402.554.3819.

## Website (<http://www.unomaha.edu/college-of-information-science-and-technology/school-of-interdisciplinary-informatics/>)

## Degrees Offered

The three degrees offered by the School are:

- Applied Computing and Informatics, Bachelor of Science (p. 678)
- Cybersecurity, Bachelor of Science (p. 674)

The degrees offered in the School share an interdisciplinary spirit within their curriculum, which reflects the School's mission to provide our students a transformative, individualized education. Our graduates are trained by faculty with expertise in multiple domains so that they may rise to real-world challenges that require interdisciplinary solutions.

## Minors Offered

- Applied Computing and Informatics Minor (p. 681)
- Bioinformatics Minor (p. 673)
- Cybersecurity Minor (p. 678)

## Bachelor of Science in Applied Computing and Informatics

The Applied Computing and Informatics major is the interdisciplinary practice of conceptualizing, designing, prototyping and fielding an IT-based product or service. IT focuses both on the technological and entrepreneurial aspects of IT products. Applied Computing and Informatics brings together aspects of Computer Science and Management Information Systems with other disciplines that inform IT design and application, such as health care, business, psychology, art, or music.

### Careers Options:

In addition to more general IT professions, students in the Applied Computing and Informatics program have found employment in the Applied Computing and Informatics field as:

- Applications Designer
- Digital Artist
- Founder
- Graphics/Web Designer
- Innovation Consultant
- Innovation Evangelist
- IT Applications Consultant
- New Product Designer/Developer
- New Ventures Specialist
- Product Innovation Specialist
- User Experience Designer
- Video Game Designer

## Bachelor of Science in Bioinformatics

Graduates from UNO's Bioinformatics (BIOI) program in the College of IS&T will be able to use their preparation to apply and investigate technology to

solve bioinformatics problems in a comprehensive, competitive and effective way. Students with an undergraduate degree in bioinformatics can expect to have a foundational knowledge in computer science, biology, statistics, and database administration.

The job outlook for Bioinformatics majors is excellent. Versatile and greatly in demand, our graduates have gone on to become programmers, data analysts, and senior-level scientists. Employment is available with private and public industries, research institutions, government institutions, non-profits, and universities around the globe. The Bioinformatics degree can also serve as a springboard to graduate work, opening the door to academic careers and other careers that require informatics skills coupled with biological background.

### Careers Options:

- Bioinformatics Scientist/Analyst
- Scientific Curator
- Computational Biologist
- Database Programmer
- Database Administrator
- Software Developer
- Consultant
- Network Analyst
- Structural Analyst
- Biostatistician
- Software Engineer
- Research Scientist
- Data Scientist
- Biotech Entrepreneur

## Bachelor of Science in Cybersecurity

Cybersecurity is a rapidly expanding field focused on keeping critical infrastructure, systems, and users safe. From phishing attacks on individuals to large-scale attacks on facilities like power plants, government systems, and industrial control systems, threaten the 21<sup>st</sup> century global economy. Adapting to these changing threat environments is a continual activity in which companies and governments must engage. These organizations rely on cybersecurity practitioners to identify threats, determine risk, and implement mitigating protections in their software, hardware, and online systems - such as those on mobile, web and Internet of Things (IoT) platforms. It is also important to build protections into new software and hardware during the design and development process, track and monitor developed systems for on-going risk, and assess them forensically when something goes wrong. The Bachelor of Science in Cybersecurity (CYBR) degree program at UNO focuses on technical curricula that prepare students for pathways into a range of careers that address these topics.

### Careers Options:

- Entry Level
  - Cybersecurity Specialist/Technician
  - Cyber Crime Analyst/Investigator
  - Incident Analyst / Responder
  - IT Auditor
  - Secure Applications Developer
- Mid-Level
  - Cybersecurity Analyst
  - Cybersecurity Consultant
  - Penetration and Vulnerability Tester

- Secure Systems Integrator
- Cybersecurity Lead Programmer
- Advanced level
  - Cybersecurity Manager/Administrator
  - Cybersecurity Engineer
  - Cybersecurity Architect
  - Chief Information Security Officer

# Biomedical Informatics Concentration

## Applied Computing and Informatics, Bachelor of Science - Biomedical Informatics Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 61 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the Following:</b>  |   | <b>43</b> |
| CIST 1010   | LEARN AND EARN: COLLEGE AND CAREER SUCCESS              |           |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES (** ^)                      |           |

|              |   |
|--------------|---|
| CYBR 1100    | INTRODUCTION TO INFORMATION SECURITY (**)                                 |
| ACMP 1200    | HUMAN-CENTERED COMPUTING (**)   |
| BIOI 1000    | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (**)                                |
| CIST 1600    | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING (^)                 |
| or CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I  |
| ACMP 2000    | DATA ANALYSIS AND MACHINE LEARNING (^)                                    |
| ACMP 2100    | FUNDAMENTALS OF SOFTWARE AND HARDWARE CONSTRUCTION (^)                    |
| ACMP 2400    | DEVOPS AND PLATFORM ENGINEERING (^)                                       |
| CIST 2500    | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)                           |
| ACMP 2990    | APPLIED COMPUTING AND INFORMATICS SEMINAR (^ taken 3 times for 1 cr each) |
| CIST 3000    | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)                            |
| ACMP 3200    | DATA STRUCTURES AND ALGORITHMS FOR APPLIED COMPUTING AND INFORMATICS (^)  |
| or CSCI 3320 | DATA STRUCTURES   |
| CIST 3110    | INFORMATION TECHNOLOGY ETHICS (^)   |
| ACMP 4580    | CAPSTONE (^)  |

### Biomedical Informatics Concentration Courses - 18 Hours Required

|                              |  |           |
|------------------------------|--|-----------|
| <b>All of the following:</b> |  | <b>12</b> |
| BIOI 3000                    | APPLIED BIOINFORMATICS (^)   |           |
| BIOI 4860                    | BIOINFORMATICS ALGORITHMS (^)  |           |
| BIOI 4870                    | DATA MANAGEMENT AND KNOWLEDGE DISCOVERY IN COMPUTING AND INFORMATICS (^) |           |
| BIOI 4890                    | COMPUTERIZED GENETIC SEQUENCE ANALYSIS (^)                               |           |

|  |   |          |
|--|---|----------|
| <b>Select 6 credit hours from the following:</b> |   | <b>6</b> |
| BIOL 1450  | BIOLOGY I (**)                                  |          |
| CHEM 1140  | FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)        |          |
| ISQA 3910  | INTRODUCTION TO PROJECT MANAGEMENT (^)          |          |
| ACMP 4000  | SPECIAL TOPICS IN IT INNOVATION                 |          |
| CSCI 4150  | GRAPH THEORY & APPLICATIONS (^)                 |          |
| ACMP 4260  | USER EXPERIENCE DESIGN (^)                      |          |
| ACMP 4510  | INTERNSHIP IN APPLIED COMPUTING AND INFORMATICS |          |

### ELECTIVES

#Elective hours as required to reach a total of 120 hours

<sup>1</sup> Special topics may only count toward a max of 6 credits in the concentration and the topic must be approved by the concentration.



# Design and Innovation Concentration

## Applied Computing and Informatics, Bachelor of Science - Design and Innovation Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                 |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING   |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                     |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS       |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                              |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                           |           |
| STAT 1530   | ELEMENTARY STATISTICS                                     |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 61 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the Following:</b>  |   | <b>43</b> |
| CIST 1010   | LEARN AND EARN: COLLEGE AND CAREER SUCCESS                |           |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES (** ^)                        |           |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)                 |           |
| ACMP 1200   | HUMAN-CENTERED COMPUTING (**)                             |           |
| BIOI 1000   | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (**)                |           |
| CIST 1600   | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING (^) |           |
| or CIST 1400  | INTRODUCTION TO COMPUTER SCIENCE I                        |           |

|  |   |
|--|---|
| ACMP 2000  | DATA ANALYSIS AND MACHINE LEARNING (^)                                    |
| ACMP 2100  | FUNDAMENTALS OF SOFTWARE AND HARDWARE CONSTRUCTION (^)                    |
| ACMP 2400  | DEVOPS AND PLATFORM ENGINEERING (^)                                       |
| CIST 2500  | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)                           |
| ACMP 2990  | APPLIED COMPUTING AND INFORMATICS SEMINAR (^ taken 3 times for 1 cr each) |
| CIST 3000  | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)                            |
| ACMP 3200  | DATA STRUCTURES AND ALGORITHMS FOR APPLIED COMPUTING AND INFORMATICS (^)  |
| or CSCI 3320   | DATA STRUCTURES   |
| CIST 3110  | INFORMATION TECHNOLOGY ETHICS (** ^)                                      |
| ACMP 4580  | CAPSTONE (^)  |
| <b>Design and Innovation Concentration Courses - 18 Hours Required</b> |   |
| <b>All of the following:</b>   |   |
| ACMP 3220  | CREATIVITY AND INNOVATION (^)   |
| ACMP 3330  | DESIGN METHODS AND PROTOTYPING (^)  |
| ACMP 4260  | USER EXPERIENCE DESIGN (^)  |
| <b>Select 9 credit hours from the following:</b>                       |   |
| SOC 2130   | SOCIAL STATISTICS (^)   |
| CSCI 2240  | INTRODUCTION TO C PROGRAMMING (^)   |
| ART 2300   | WEB DESIGN (^)  |
| ART 3170   | DIGITAL GAME DESIGN   |
| ART 4180   | ADVANCED DIGITAL GAME DESIGN (^)  |
| ISQA 3900  | WEB APPLICATION DEVELOPMENT (^)   |
| ISQA 4130  | INFORMATION TECHNOLOGY FOR DEVELOPMENT                                    |
| ISQA 4900  | FULL STACK DEVELOPMENT (^)  |
| MKT 3400   | MARKETING INNOVATION (^)  |
| ENTR 4730  | NEW VENTURE FORMATION (^)   |
| PSYC 4650  | CREATIVITY AND INNOVATION IN ORGANIZATIONS                                |
| ACMP 4000  | SPECIAL TOPICS IN IT INNOVATION <sup>1</sup>                              |
| ACMP 4510  | INTERNSHIP IN APPLIED COMPUTING AND INFORMATICS                           |
| <b>ELECTIVES</b>   |   |

#Elective hours as required to reach a total of 120 hours

<sup>1</sup> Special topics may only count toward a max of 6 credits in the concentration and the topic must be approved by the concentration.

## Bioinformatics Minor

### Bioinformatics Minor Requirements

Bioinformatics is a rapidly expanding interdisciplinary field focused on collecting, processing, and analyzing vast amounts of biological and biomedical data, and it has become an indispensable component of biomedical research. The Minor in Bioinformatics offers an opportunity for



students majoring in other disciplines to acquire the foundations of the field and add in-demand skills to their portfolio.

Students are responsible for completing the prerequisites for all courses taken for the Bioinformatics minor.

| Code  | Title  | Credits  |
|---|--|----------|
| <b>18 Hours Required</b>  |  |          |
| <b>All of the Following</b>   |  | <b>9</b> |
| BIOI 1000   | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS                                |          |
| BIOI 3000   | APPLIED BIOINFORMATICS   |          |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I                                   |          |
| <b>Select 9 hours from the following list, including at least 3 credits of courses with ACMP or BIOI prefixes</b> |  | <b>9</b> |
| ACMP 2000   | DATA ANALYSIS AND MACHINE LEARNING                                   |          |
| ACMP 3200   | DATA STRUCTURES AND ALGORITHMS FOR APPLIED COMPUTING AND INFORMATICS |          |
| BIOI 4500   | INDEPENDENT STUDY <sup>1</sup>                                       |          |
| BIOL 4050   | SUPERVISED RESEARCH IN BIOLOGY <sup>1</sup>                          |          |
| BIOI 4860   | BIOINFORMATICS ALGORITHMS  |          |
| BIOI 4870   | DATA MANAGEMENT AND KNOWLEDGE DISCOVERY IN COMPUTING AND INFORMATICS |          |
| BIOI 4890   | COMPUTERIZED GENETIC SEQUENCE ANALYSIS                               |          |
| BIOI 4950   | SPECIAL TOPICS IN BIOINFORMATICS                                     |          |
| BIOL 3020   | MOLECULAR BIOLOGY OF THE CELL  |          |
| BIOL 4130   | MOLECULAR GENETICS   |          |
| BIOL 4140   | CELLULAR BIOLOGY   |          |
| CSCI/MATH 4150  | GRAPH THEORY & APPLICATIONS  |          |
| CSCI 4850   | DATABASE MANAGEMENT SYSTEMS  |          |

<sup>1</sup> The number of combined credits from BIOI 4500 and BIOL 4050 cannot exceed 3.

## Cybersecurity, Bachelor of Science

### Bachelor of Science in Cybersecurity

Cybersecurity (CYBR) is an emerging, rapidly expanding science that addresses problems in the fundamental understanding of the design, development, implementation and lifecycle support of secure information systems. The need for secure information systems has become a paramount concern as the computer-enabled, internet-connected, digital-based global society of the 21st century continues to emerge. The lack of adequately secure information systems has been cited as one of the likely impediments to the emergence of the digital society.

### Student Groups

**NULLify** is UNO's student-led computer security group. Contact the group at nullify@unomaha.edu.

## Fast Track

The School of Interdisciplinary Informatics (SI2) has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate credit hours towards the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

Program Specifics:

- This program is available for undergraduate students pursuing any CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Contact

For more information, contact the College of IS&T Academic Advising Office at 402.554.3819.

**Website (<https://www.unomaha.edu/college-of-information-science-and-technology/school-of-interdisciplinary-informatics/cybersecurity/>)**

## Cybersecurity, Bachelor of Science in Cybersecurity Requirements

A minimum of 120 credit hours is required for a Bachelor of Science degree in Cybersecurity. Thirty of the last 36 hours must be University of Nebraska at Omaha courses. Registering for courses without having taken the stated prerequisites could result in administrative withdrawal.

To obtain a Bachelor of Science in Cybersecurity, a student must fulfill the University General Education, College, and Departmental requirements. Some courses may satisfy requirements in more than one area, but credit is awarded only once, thereby reducing the total number of credit hours for the degree to 120. (This total does not include prerequisites.)

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                       |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                   |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                       |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                    |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING     |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                       |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS         |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                             |           |
| STAT 1530   | ELEMENTARY STATISTICS                                       |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 71 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education Requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the Following</b>   |   | <b>53</b> |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)                   |           |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                      |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)                     |           |
| MATH 1950   | CALCULUS I (^)  |           |
| ACMP 2000   | DATA ANALYSIS AND MACHINE LEARNING (^)                      |           |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)            |           |
| or MATH 2030  | DISCRETE MATHEMATICS  |           |
| CYBR 2250   | LOW-LEVEL PROGRAMMING (^)                                   |           |
| CYBR 2600   | SYSTEM ADMINISTRATION (^)                                   |           |
| CYBR 3050   | PRINCIPLES OF CYBER OPERATIONS AND DEFENSE (^) <sup>1</sup> |           |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (**) (^)                      |           |
| CSCI 3320   | DATA STRUCTURES (^)   |           |
| CSCI 3550   | COMMUNICATION NETWORKS (^)                                  |           |
| CYBR 3570   | CRYPTOGRAPHY (^)  |           |

|           |  |
|-----------|--|
| CYBR 3600 | CYBERSECURITY POLICY AND AWARENESS (^) |
| CSCI 3720 | COMPUTER ORGANIZATION (^)              |
| CSCI 4500 | OPERATING SYSTEMS (^)                  |
| CYBR 4580 | CAPSTONE (^)                           |

**Complete Requirements for One Concentration 18**

#### ELECTIVES

#Elective hours as required to reach a total of 120 hours

<sup>1</sup> Students who have previously earned credit for CYBR 4360 may substitute CYBR 4360 and PSCI 4260 in place of CYBR 3050.

## Cybersecurity, Bachelor of Science Concentrations

- Cyber Defense Concentration (p. 676)
- Cyber Operations Concentration (p. 677)

## Minor Offered

- Cybersecurity Minor (p. 678)

## Cybersecurity, Bachelor of Science in Cybersecurity Four Year Plan

### First Year

| Fall                                 |                                      | Credits   |
|--------------------------------------|--------------------------------------|-----------|
| ENGL 1150                            | ENGLISH COMPOSITION I                | 3         |
| CYBR 1100                            | INTRODUCTION TO INFORMATION SECURITY | 3         |
| CIST 1400                            | INTRODUCTION TO COMPUTER SCIENCE I   | 3         |
| MATH 1950                            | CALCULUS I                           | 5         |
| General Education Course or Elective |                                      | 1         |
| <b>Credits</b>                       |                                      | <b>15</b> |

### Spring

|                                      |   |           |
|--------------------------------------|---|-----------|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY                               | 3         |
| CSCI 1620                            | INTRODUCTION TO COMPUTER SCIENCE II                                     | 3         |
| CSCI 2030<br>or MATH 2030            | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE<br>or DISCRETE MATHEMATICS | 3         |
| CMST 1110<br>or CMST 2120            | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE                    | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>15</b> |

### Second Year

| Fall                                 |                                    | Credits   |
|--------------------------------------|------------------------------------|-----------|
| CYBR 2250                            | LOW-LEVEL PROGRAMMING              | 3         |
| ACMP 2000                            | DATA ANALYSIS AND MACHINE LEARNING | 3         |
| CYBR 2600                            | SYSTEM ADMINISTRATION              | 3         |
| General Education Course or Elective |                                    | 3         |
| General Education Course or Elective |                                    | 3         |
| <b>Credits</b>                       |                                    | <b>15</b> |

### Spring

|           |                               |   |
|-----------|-------------------------------|---|
| CIST 3110 | INFORMATION TECHNOLOGY ETHICS | 3 |
|-----------|-------------------------------|---|

|                                      |  |            |
|--------------------------------------|--|------------|
| CSCI 3320                            | DATA STRUCTURES                            | 3          |
| CSCI 3720                            | COMPUTER ORGANIZATION                      | 3          |
| General Education Course or Elective |  | 3          |
| General Education Course or Elective |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Third Year</b>                    |  |            |
| <b>Fall</b>                          |  |            |
| CSCI 3550                            | COMMUNICATION NETWORKS                     | 3          |
| CYBR 3570                            | CRYPTOGRAPHY                               | 3          |
| CYBR 3050                            | PRINCIPLES OF CYBER OPERATIONS AND DEFENSE | 3          |
| General Education Course or Elective |  | 3          |
| General Education Course or Elective |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Spring</b>                        |  |            |
| CYBR 3600                            | CYBERSECURITY POLICY AND AWARENESS         | 3          |
| Concentration Course                 |  | 3          |
| Concentration Course                 |  | 3          |
| General Education Course or Elective |  | 3          |
| General Education Course or Elective |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Fourth Year</b>                   |  |            |
| <b>Fall</b>                          |  |            |
| CSCI 4500                            | OPERATING SYSTEMS                          | 3          |
| Concentration Course                 |  | 3          |
| Concentration Course                 |  | 3          |
| General Education Course or Elective |  | 3          |
| General Education Course or Elective |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Spring</b>                        |  |            |
| CYBR 4580                            | CAPSTONE                                   | 3          |
| Concentration Course                 |  | 3          |
| Concentration Course                 |  | 3          |
| General Education Course or Elective |  | 3          |
| General Education Course or Elective |  | 3          |
| <b>Credits</b>                       |  | <b>15</b>  |
| <b>Total Credits</b>                 |  | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific degree program to determine all requirements for the program. In order to graduate on time (four years for an undergraduate degree), you need to take 30 credit hours each year.

**Placement Exams:** For Math, English, and Foreign Languages, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Please note that transfer credit or placement exam scores may change a suggested plan of study.

## Cyber Defense Concentration Cybersecurity, Bachelor of Science in Cybersecurity - Cyber Defense Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 71 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education Requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the Following</b>   |   | <b>53</b> |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)               |           |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                  |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)                 |           |
| MATH 1950   | CALCULUS I (^)  |           |
| ACMP 2000   | DATA ANALYSIS AND MACHINE LEARNING (^)                  |           |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)        |           |
| or MATH 2030  | DISCRETE MATHEMATICS                                    |           |

|  |   |          |
|--|---|----------|
| CYBR 2250  | LOW-LEVEL PROGRAMMING (^)   |          |
| CYBR 2600  | SYSTEM ADMINISTRATION (^)   |          |
| CYBR 3050  | PRINCIPLES OF CYBER OPERATIONS AND DEFENSE (^) <sup>1</sup>   |          |
| CIST 3110  | INFORMATION TECHNOLOGY ETHICS (** ^)  |          |
| CSCI 3320  | DATA STRUCTURES (^)   |          |
| CSCI 3550  | COMMUNICATION NETWORKS (^)  |          |
| CYBR 3570  | CRYPTOGRAPHY (^)  |          |
| CYBR 3600  | CYBERSECURITY POLICY AND AWARENESS (^)  |          |
| CSCI 3720  | COMPUTER ORGANIZATION (^)   |          |
| CSCI 4500  | OPERATING SYSTEMS (^)   |          |
| CYBR 4580  | CAPSTONE (^)  |          |
| <b>Cyber Defense Concentration Core - complete all of the following:</b>         |   | <b>9</b> |
| CYBR 4380  | DIGITAL FORENSICS   |          |
| CYBR 4390  | MOBILE DEVICE FORENSICS   |          |
| CYBR 4460  | ETHICAL HACKING - NETWORK ANALYSIS  |          |
| <b>Cyber Defense Concentration Extension - complete 9 credits selected from:</b> |   | <b>9</b> |
| CYBR XXXX  | Any course with CYBR subject prefix not counted elsewhere in the plan of study, including lower or upper level CYBR transfer coursework |          |
| CSCI 3660  | THEORY OF COMPUTATION   |          |
| CSCI 4560  | NUMBER THEORY & CRYPTOGRAPHY  |          |
| CSCI 4650  | INTRODUCTION TO CLOUD COMPUTING   |          |
| <b>ELECTIVES</b>   |   |          |
| #Elective hours as required to reach a total of 120 hours                        |   |          |

<sup>1</sup> Students who have previously earned credit for CYBR 4360 may substitute CYBR 4360 and PSCI 4260 in place of CYBR 3050.

## Cyber Operations Concentration

### Cybersecurity, Bachelor of Science in Cybersecurity - Cyber Operations Requirements

The University of Nebraska at Omaha's undergraduate Cybersecurity degree program is one of the few National Security Agency (NSA) certified National Centers of Academic Excellence in Cyber Operations (CAE-CO). The Cyber Operations concentration within the BS in Cybersecurity satisfies requirements defined by the NSA CAE-CO program, and students who complete this concentration will earn a special transcript designation indicating that they have met NSA CAE-CO's requirements upon graduation.

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |

#### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

#### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

#### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS - 71 Hours Required

\*\*Course will satisfy UNO's General Education Requirement

^Course requires pre-requisite(s)

#### All of the Following **53**

|              |   |
|--------------|---|
| CYBR 1100    | INTRODUCTION TO INFORMATION SECURITY (**)                   |
| CIST 1400    | INTRODUCTION TO COMPUTER SCIENCE I (^)                      |
| CSCI 1620    | INTRODUCTION TO COMPUTER SCIENCE II (^)                     |
| MATH 1950    | CALCULUS I (^)  |
| ACMP 2000    | DATA ANALYSIS AND MACHINE LEARNING (^)                      |
| CSCI 2030    | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)            |
| or MATH 2030 | DISCRETE MATHEMATICS  |
| CYBR 2250    | LOW-LEVEL PROGRAMMING (^)                                   |
| CYBR 2600    | SYSTEM ADMINISTRATION (^)                                   |
| CYBR 3050    | PRINCIPLES OF CYBER OPERATIONS AND DEFENSE (^) <sup>1</sup> |
| CIST 3110    | INFORMATION TECHNOLOGY ETHICS (** ^)                        |
| CSCI 3320    | DATA STRUCTURES (^)   |
| CSCI 3550    | COMMUNICATION NETWORKS (^)                                  |
| CYBR 3570    | CRYPTOGRAPHY (^)  |
| CYBR 3600    | CYBERSECURITY POLICY AND AWARENESS (^)                      |
| CSCI 3720    | COMPUTER ORGANIZATION (^)                                   |
| CSCI 4500    | OPERATING SYSTEMS (^)                                       |
| CYBR 4580    | CAPSTONE (^)  |

#### Cyber Operations Concentration Requirements - Complete all of the following **18**

|           |                           |
|-----------|---------------------------|
| CSCI 3660 | THEORY OF COMPUTATION (^) |
|-----------|---------------------------|

|           |  |
|-----------|--|
| CYBR 4450 | ETHICAL HACKING - MALWARE ANALYSIS (^) |
| CYBR 4460 | ETHICAL HACKING - NETWORK ANALYSIS (^) |
| CSCI 4350 | COMPUTER ARCHITECTURE (^)              |
| CYBR 4380 | DIGITAL FORENSICS (^)                  |
| CYBR 4390 | MOBILE DEVICE FORENSICS (^)            |

ELECTIVES

#Elective hours as required to reach a total of 120 hours

<sup>1</sup> Students who have previously earned credit for CYBR 4360 may substitute CYBR 4360 and PSCI 4260 in place of CYBR 3050.

# Cybersecurity Minor

## Cybersecurity, Minor Requirements

| Code   | Title                                      | Credits  |
|--|--|----------|
| <b>18 Hours Required</b>   |  |          |
| <b>All of the following</b>  |  | <b>9</b> |
| CYBR 1100  | INTRODUCTION TO INFORMATION SECURITY       |          |
| CYBR 3050  | PRINCIPLES OF CYBER OPERATIONS AND DEFENSE |          |
| or CYBR 4360   | PRINCIPLES OF SECURE SYSTEM DESIGN         |          |
| CYBR 3600  | CYBERSECURITY POLICY AND AWARENESS         |          |
| <b>Select 9 hours with 6 hours above 3XXX from the following: <sup>1</sup></b> |  | <b>9</b> |
| CYBR 2980  | SPECIAL TOPICS IN CYBERSECURITY            |          |
| CYBR 2600  | SYSTEM ADMINISTRATION                      |          |
| CYBR 3450  | NATURAL LANGUAGE PROCESSING                |          |
| CYBR 3570  | CRYPTOGRAPHY                               |          |
| CYBR/CSCI 4380   | DIGITAL FORENSICS                          |          |
| CYBR 4390  | MOBILE DEVICE FORENSICS                    |          |
| CYBR 4430  | QUANTUM COMPUTING AND CRYPTOGRAPHY         |          |
| CYBR 4440  | INDUSTRIAL CONTROL SYSTEM SECURITY         |          |
| CYBR 4450  | ETHICAL HACKING - MALWARE ANALYSIS         |          |
| CYBR 4460  | ETHICAL HACKING - NETWORK ANALYSIS         |          |
| CYBR/CIST 4540   | COMPUTER SECURITY MANAGEMENT               |          |
| CYBR 4980  | SPECIAL TOPICS IN CYBERSECURITY            |          |

<sup>1</sup> This list of courses is not exhaustive. Students may take other relevant courses with the approval of the Cybersecurity undergraduate program committee (CYBR UPC). Students are accountable for prerequisite of all courses listed for the Cybersecurity minor

# Applied Computing and Informatics, Bachelor of Science

## Applied Computing and Informatics Program (ACMP)

The Applied Computing and Informatics (ACMP) program is tailored for those who aspire to make a difference with computing in a range of domain areas from web development to healthcare to game design. Enrolling in ACMP is a choice to focus less on theory and more on solving real-world challenges. Our curriculum is designed to immerse students in the core areas of data analytics, software development, and user experience design, ensuring that the solutions developed are not only technologically advanced but also user-centric and engaging.

## Pathways for Specialization

**Design and Innovation:** This pathway is ideal for students with a passion for creating aesthetically pleasing and functional technological solutions. It emphasizes the importance of understanding user needs and incorporates principles of startup thinking into the design process, preparing students to become pioneers in technological innovation.

**Biomedical Informatics:** Tailored for students interested in the intersection of computing and healthcare, this pathway focuses on applying informatics principles to biomedicine and healthcare challenges, equipping students with the skills needed to make significant contributions to medical advancements and patient care.

## Fast Track

The School of Interdisciplinary Informatics (SI2) has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate credit hours towards the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

### Program Specifics:

- This program is available for undergraduate students pursuing any CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived if the applicant contacts the



Office of Graduate Studies for a fee waiver code prior to submitting the MS application.

- Admission to Fast Track does NOT guarantee admission to the graduate program.
- The admit term must be after the completion term of the undergraduate degree.

## Contact

For more information, contact the College of IS&T Academic Advising Office at 402.554.3819.

## Website

# Applied Computing and Informatics, Bachelor of Science Requirements

A minimum of 120 credit hours is required for a Bachelor of Science degree in applied Computing and Informatics. Thirty of the last 36 hours must be University of Nebraska at Omaha (UNO) courses. Registering for courses without having taken the stated prerequisites could result in administrative withdrawal.

To obtain a Bachelor of Science degree in Applied Computing and Informatics, a student must fulfill the university, college and departmental requirements. Some courses may satisfy requirements in more than one area, but credit is awarded only once, thereby reducing the total number of credit hours for the degree to 120. (This total does not include prerequisites.)

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>General Education Requirements - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |

|   |   |
|---|---|
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 61 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the Following:</b>  | <b>43</b>   |
| CIST 1010   | LEARN AND EARN: COLLEGE AND CAREER SUCCESS (^)                            |
| CSCI 1200   | COMPUTER SCIENCE PRINCIPLES (** ^)  |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)                                 |
| ACMP 1200   | HUMAN-CENTERED COMPUTING (**)   |
| BIOI 1000   | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (**)                                |
| CIST 1600   | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING (^)                 |
| or CIST 1400  | INTRODUCTION TO COMPUTER SCIENCE I  |
| ACMP 2000   | DATA ANALYSIS AND MACHINE LEARNING (^)                                    |
| ACMP 2100   | FUNDAMENTALS OF SOFTWARE AND HARDWARE CONSTRUCTION (^)                    |
| ACMP 2400   | DEVOPS AND PLATFORM ENGINEERING (^)                                       |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T (^)                           |
| ACMP 2990   | APPLIED COMPUTING AND INFORMATICS SEMINAR (^ taken 3 times for 1 cr each) |
| CIST 3000   | TECHNICAL WRITING & COMMUNICATION FOR IS&T (^)                            |
| ACMP 3200   | DATA STRUCTURES AND ALGORITHMS FOR APPLIED COMPUTING AND INFORMATICS (^)  |
| or CSCI 3320  | DATA STRUCTURES   |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)                                      |
| ACMP 4580   | CAPSTONE (^)  |
| <b>Extension Courses - Select 18 credit hours from the following courses or complete an approved concentration:</b> |   |
| <b>18</b>   |   |
| ACMP 2900   | SPECIAL TOPICS IN APPLIED COMPUTING AND INFORMATICS                       |
| ACMP 3220   | CREATIVITY AND INNOVATION (^)   |
| ACMP 3330   | DESIGN METHODS AND PROTOTYPING (^)  |
| BIOI 3000   | APPLIED BIOINFORMATICS (^)  |
| CSCI 3450   | NATURAL LANGUAGE PROCESSING (^)   |
| ACMP 4000   | SPECIAL TOPICS IN IT INNOVATION (^)                                       |
| ACMP 4260   | USER EXPERIENCE DESIGN (^)  |
| BIOI 4860   | BIOINFORMATICS ALGORITHMS (^)   |
| BIOI 4870   | DATA MANAGEMENT AND KNOWLEDGE DISCOVERY IN COMPUTING AND INFORMATICS (^)  |
| BIOI 4890   | COMPUTERIZED GENETIC SEQUENCE ANALYSIS (^)                                |
| ACMP 4510   | INTERNSHIP IN APPLIED COMPUTING AND INFORMATICS (^)                       |
| ACMP 4500   | INDEPENDENT STUDIES (^)   |
| MATH 1950   | CALCULUS I (^)  |



|                           |  |  |
|---------------------------|--|--|
| CSCI 1620                 | INTRODUCTION TO COMPUTER SCIENCE II (^)                                  |  |
| CSCI 2030<br>or MATH 2030 | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)<br>DISCRETE MATHEMATICS |  |
| CYBR 2600                 | SYSTEM ADMINISTRATION (^)  |  |
| ISQA 3310                 | MANAGING THE DATABASE ENVIRONMENT (^)                                    |  |
| CYBR 3600                 | CYBERSECURITY POLICY AND AWARENESS (^)                                   |  |
| CYBR 3570                 | CRYPTOGRAPHY (^)   |  |
| CYBR 4360                 | PRINCIPLES OF SECURE SYSTEM DESIGN (^)                                   |  |
| CYBR 4380                 | DIGITAL FORENSICS (^)  |  |
| CYBR 4390                 | MOBILE DEVICE FORENSICS (^)  |  |
| CYBR 4450                 | ETHICAL HACKING - MALWARE ANALYSIS (^)                                   |  |
| CYBR 4460                 | ETHICAL HACKING - NETWORK ANALYSIS (^)                                   |  |
| CSCI 4830                 | INTRODUCTION SOFTWARE ENGINEERING (^)                                    |  |

\*This area may also be used to satisfy concentration requirements.

#### ELECTIVES

#Elective hours as required to reach a total of 120 hours

## Applied Computing and Informatics Concentrations

- Biomedical Informatics Concentration (p. 672)
- Design and Innovation Concentration (p. 673)

## Minor Offered

- Applied Computing and Informatics Minor (p. 681)

## Applied Computing and Informatics- No Concentration Four-Year Plan

#### First Year

| Fall                      |  | Credits   |
|---------------------------|--|-----------|
| CIST 1010                 | LEARN AND EARN: COLLEGE AND CAREER SUCCESS         | 1         |
| CSCI 1200                 | COMPUTER SCIENCE PRINCIPLES                        | 3         |
| CSCI 1204                 | COMPUTER SCIENCE PRINCIPLES LABORATORY             | 1         |
| ENGL 1150                 | ENGLISH COMPOSITION I                              | 3         |
| ACMP 1200                 | HUMAN-CENTERED COMPUTING                           | 3         |
| MATH 1300<br>or MATH 1320 | COLLEGE ALGEBRA WITH SUPPORT<br>or COLLEGE ALGEBRA | 4         |
| <b>Credits</b>            |  | <b>15</b> |

#### Spring

|                           |  |   |
|---------------------------|--|---|
| ENGL 1160                 | COLLEGE RESEARCH AND INFORMATION LITERACY  | 3 |
| CIST 1400<br>or CIST 1600 | INTRODUCTION TO COMPUTER SCIENCE I<br>or INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING | 3 |

|                |   |           |
|----------------|---|-----------|
| CIST 2500      | INTRODUCTION TO APPLIED STATISTICS FOR IS&T | 3         |
| BIOI 1000      | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS       | 3         |
| CYBR 1100      | INTRODUCTION TO INFORMATION SECURITY        | 3         |
| <b>Credits</b> |   | <b>15</b> |

#### Second Year

##### Fall

|                                      |  |           |
|--------------------------------------|--|-----------|
| ACMP 2000                            | DATA ANALYSIS AND MACHINE LEARNING                 | 3         |
| ACMP 2100                            | FUNDAMENTALS OF SOFTWARE AND HARDWARE CONSTRUCTION | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

##### Spring

|                                      |   |           |
|--------------------------------------|---|-----------|
| ACMP 2990                            | APPLIED COMPUTING AND INFORMATICS SEMINAR | 1         |
| ACMP 2400                            | DEVOPS AND PLATFORM ENGINEERING           | 3         |
| CMST 1110                            | PUBLIC SPEAKING FUNDS                     | 3         |
| Extension/Concentration Course       |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>13</b> |

#### Third Year

##### Fall

|                                      |   |           |
|--------------------------------------|---|-----------|
| ACMP 2990                            | APPLIED COMPUTING AND INFORMATICS SEMINAR | 1         |
| CIST 3110                            | INFORMATION TECHNOLOGY ETHICS             | 3         |
| Extension/Concentration Course       |   | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| General Education Course or Elective |   | 3         |
| <b>Credits</b>                       |   | <b>16</b> |

##### Spring

|                                      |  |           |
|--------------------------------------|--|-----------|
| ACMP 2990                            | APPLIED COMPUTING AND INFORMATICS SEMINAR                            | 1         |
| ACMP 3200                            | DATA STRUCTURES AND ALGORITHMS FOR APPLIED COMPUTING AND INFORMATICS | 3         |
| Extension/Concentration Course       |  | 3         |
| Extension/Concentration Course       |  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>16</b> |

#### Fourth Year

##### Fall

|                                      |  |           |
|--------------------------------------|--|-----------|
| CIST 3000                            | TECHNICAL WRITING & COMMUNICATION FOR IS&T | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

##### Spring

|                                |          |   |
|--------------------------------|----------|---|
| ACMP 4580                      | CAPSTONE | 3 |
| Extension/Concentration Course |          | 3 |

|                                      |            |
|--------------------------------------|------------|
| Extension/Concentration Course       | 3          |
| General Education Course or Elective | 3          |
| General Education Course or Elective | 3          |
| <b>Credits</b>                       | <b>15</b>  |
| <b>Total Credits</b>                 | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

Placement Exams: For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Applied Computing and Informatics Minor

### Applied Computing and Informatics Minor Requirements

The objective of the Applied Computing and Informatics minor is to provide students with a substantive qualification in information technology to augment their respective major and allow them to be even more innovative as to the application of Applied Computing and Informatics to their learning and career choices.

The Applied Computing and Informatics minor will serve all students that have a desire to pursue their academic major and wish to supplement it with an innovative approach of Applied Computing and Informatics to that major.

A minor may be earned by completing the following 18 hours:

| Code  | Title   | Credits  |
|---|---|----------|
| <b>All of the following</b>                                     |   | <b>9</b> |
| ACMP 1200   | HUMAN-CENTERED COMPUTING (**)                         |          |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I                    |          |
| or CIST 1600  | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING |          |
| ACMP 3220   | CREATIVITY AND INNOVATION                             |          |
| <b>Select 9 hours of 3000 level or above from the following</b> |   | <b>9</b> |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (**)                    |          |

|              |   |
|--------------|---|
| ACMP 3330    | DESIGN METHODS AND PROTOTYPING                                    |
| ART 3140     | COMPUTER-GENERATED IMAGERY (CGI) I: INTERACTIVE 3D VIRTUAL SPACES |
| ART 3150     | VIDEO ART   |
| ART 3160     | GAME DESIGN AS ART  |
| ART 3170     | DIGITAL GAME DESIGN   |
| ART 4180     | ADVANCED DIGITAL GAME DESIGN                                      |
| ACMP 4260    | USER EXPERIENCE DESIGN  |
| ISQA 3310    | MANAGING THE DATABASE ENVIRONMENT                                 |
| ISQA 3400    | INFORMATION TECHNOLOGY INFRASTRUCTURE                             |
| or CSCI 3550 | COMMUNICATION NETWORKS  |
| ISQA 3520    | GRAPHICAL USER INTERFACE DESIGN                                   |
| ENTR 3710    | ENTREPRENEURIAL FOUNDATIONS                                       |
| MUS 3170     | EXPLORING MUSIC TECHNOLOGY  |
| MUS 4200     | AUDIO RECORDING TECHNIQUES I                                      |
| MUS 4210     | AUDIO RECORDING TECHNIQUES II                                     |

We encourage Applied Computing and Informatics students to think broadly. The courses listed above are recommendations for completing the minor; other courses tailored to your individual program of study can be approved with permission of the ACMP Program Committee.

## College of Public Affairs and Community Service

### Mission

The College of Public Affairs and Community Service (CPACS) was established in 1973 to ensure university responsiveness to the critical social needs of the community and state. The college was charged with the mission of providing educational programs of the highest caliber to prepare students for leadership in public service and reaching out to the community to help solve public problems.

The mission of the College of Public Affairs and Community Service is to:

1. Foster a learning environment in which undergraduate students, graduate students, adult learners and both traditional and nontraditional students can gain a comprehensive and quality education helpful in preparing for careers in their respective fields;
2. Conduct research, especially as it relates to concerns of local and statewide constituencies; and,
3. Offer professional services to the community, including continuing education opportunities designed to further personal, professional, organizational, and community improvement goals.

### General Information

The College of Public Affairs and Community Service (CPACS) offers undergraduate coursework leading to the Bachelor of Science Degree in aviation, criminology and criminal justice, gerontology, social work, and emergency management. The Division of Continuing Studies administers the Bachelor of Multidisciplinary Studies (BMS) Degree. In addition to its undergraduate degree programs, CPACS offers courses in urban studies, nonprofit management, and public administration; the Goodrich Scholarship Program, a specialized program for students with marked financial need; and particular areas of independent study developed in conjunction with other UNO colleges or governmental units.

The College of Public Affairs and Community Service strives to make available to students an interdisciplinary education based on classroom

learning, research, and community service. Students are expected to participate in each of these activities.

## Goodrich Scholarship Program

Since 1972, the Goodrich Scholarship Program (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/goodrich-scholarship-program/>) has enabled more than 3000 students to complete a first-class education at the University of Nebraska Omaha (UNO). Many recipients are the first in their families to attend college. All students are Nebraska residents, have financial need, and have demonstrated academic merit, earning an opportunity to continue their education at UNO. Goodrich scholars bring a spectacular variety of experiences, backgrounds and skills to UNO and the city of Omaha.

The Goodrich Scholarship has many benefits, including:

- Financial aid in the form of tuition and general fees
- A complementary MavEd core curriculum
- Academic and non-academic support services

For more information or to apply, visit <https://www.unomaha.edu/college-of-public-affairs-and-community-service/goodrich-scholarship-program/index.php> (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/goodrich-scholarship-program/>)

Goodrich Scholarship Program  
123 College of Public Affairs and Community Service  
University of Nebraska at Omaha  
6001 Dodge Street  
Omaha, NE 68182  
Phone – 402.554.2274

## Center for Public Affairs Research

The Center for Public Affairs Research collaboratively produces and disseminates high-quality public scholarship about topics that impact the lives of Nebraskans. Ongoing projects from CPAR, include policy analyses for the Planning Committee of the Nebraska State Legislature, the Nebraska Rural Transit Project, governing.unomaha.edu, and designation by the U.S. Census Bureau as a statewide liaison for disseminating a range of data products. To learn more about CPAR and access many of our data resources go to [cpar.unomaha.edu](https://www.unomaha.edu/college-of-public-affairs-and-community-service/center-for-public-affairs-research/) (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/center-for-public-affairs-research/>).

## The William Brennan Institute for Labor Studies

The William Brennan Institute for Labor Studies provides relevant and timely education for Nebraska wage earners, union leaders, labor organizations, and citizens to help attain the American Dream for all. Through non-credit educational instruction, wage earners gain knowledge and skills to be effective leaders in a democratic labor movement in a democratic society.

## Dean's List

Students enrolled in the College of Public Affairs and Community Service who maintain a GPA of 3.5 or better while carrying 12 hours or more of graded course work will earn the distinction of being placed on the Dean's Honor List at the end of each semester. Part-time students must earn a GPA of 3.5 or better for courses taken at UNO on a continuous part-time basis. These students may be placed on the Dean's List when they complete course work in 12 semester hour blocks at UNO (i.e., 12, 24, 48, etc.). Continuous part-time basis is defined as taking one or more courses totaling 1-11 semester hours during each fall and spring semester each academic year.

## Accreditation Information

| Major  | Degree   | Accreditation Body   |
|--|----------|--|
| Aviation: Specialization in Air Transport Administration | BS       | Aviation Accreditation Board, International (AABI)                       |
| Public Administration                                    | MPA      | Network of Schools of Public Policy, Affairs and Administration (NASPAA) |
| Social Work  | BSSW MSW | Council on Social Work Education (CSWE)                                  |

## Contact Information

CPACS Deans Office | 109 CPACS  
University of Nebraska at Omaha  
6001 Dodge Street  
Omaha, Nebraska 68182  
Phone – 402.554.2276  
Fax – 402.554.4871

College Website (<http://cpacs.unomaha.edu>)

## Admission to the College of Public Affairs and Community Service

Students who have been admitted to the University of Nebraska at Omaha may apply for admission into the College of Public Affairs and Community Service by indicating their preference in the appropriate place on the university application for admission. Refer to the section "Division of Continuing Studies" for DCS and Bachelor of Multidisciplinary Studies Degree admission requirements.

Students who wish to transfer into CPACS from another college or school within UNO must request permission from the department offering the student's intended major.

## Academic Requirements for the College Degrees

### Number of Hours to Graduate

Each candidate must present a total of at least 120 credit hours of college credit to meet graduation requirements.

### Minimum GPA/Additional Requirements

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## College Requirements, BA/BS Requirements Major Field

Each student must present a major including at least 15 credit hours of upper division work designated as appropriate by the faculty of the department in which enrolled. A candidate meeting the requirements of each of two fields may present a double major in these fields. Individual departments should be consulted for the number of upper division hours required.

## Requirements for the Bachelor of Multidisciplinary Studies Degree

Refer to the section "Division of Continuing Studies" for Bachelor of Multidisciplinary Studies (BMS) Degree requirements.

## Prerequisite Courses

Completion of a course within the major with a grade below a "C-" will not be considered as having fulfilled prerequisite requirements for additional courses taken in the major field of study. A higher grade may be designated by the department/unit.

## General Education Requirements

All students in a CPACS degree program must meet the university general education requirements. Certain majors/programs in the College of Public Affairs and Community Service require specific foundational coursework that may also count for general education requirements. For more information on the foundational coursework, contact the department academic advisor.

## Transfer Credit Policy

All questions concerning the acceptability or transferability of credits earned at other institutions or via programs such as cooperative education and credit by examination should be directed to the department in which enrolled. Credit earned in courses below the 1000 level may not be applied toward the degree offered by the College of Public Affairs and Community Service.

## Unacceptable Credits

Remedial, developmental, or technical coursework may not be used toward the fulfillment of the 120 credit hour requirement.

Courses taken at a community college that are upper-division level courses in the College of Public Affairs and Community Service may not be counted as equivalent to upper-division College of Public Affairs and Community Service courses. At the discretion of the advisor and the department, these courses may be used toward required or elective coursework but may not be used to meet upper-division requirements.

Technical credit may be awarded to students in the Division of Continuing Studies. Please see a DCS academic advisor for more information.

## Retroactive Credit Policy

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Advanced Placement Credits

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Military Credit

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## IB Credit

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/undergraduate-transfer-credit/> (p. 33)

## Placement Exams and Credit by Department Policies/Practices

<https://nextcatalog.unomaha.edu/aboutuno/student-services-a-z/testing-center/> (p. 63)

## Residency Requirement

Thirty of the last 36 hours required for the degree must be registered for and carried within the University of Nebraska System.

## Quality of Work

Each candidate for the degree must attain a cumulative GPA of at least 2.0 ("C"). A grade of at least "C-" must be earned in all required courses

within the major, unless a higher grade is designated by the department/unit. All grades reported by the faculty to the registrar become a part of the student's permanent record and are included in the computation of the grade point average, even though some of these grades may be for work done in excess of the 120 hours required for graduation.

## Good Academic Standing Policy

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Credit/No Credit (CR/NC) Grades

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Completion of Incomplete Grade

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Repeatable Grades/Courses

<https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/> (p. 37)

## Appeal Process

Undergraduate students may appeal a final grade they feel was capriciously or prejudicially assigned. Students must contact the instructor in writing within 30 calendar days of the final course grade posting. The student shall indicate the reason they feel the final grade was capriciously or prejudicially assigned, the resolution they deem warranted, and the impact on the final grade in the course.

If the matter is not resolved, the student must meet with the department/school chair/director. If a satisfactory agreement cannot be reached the student must appeal, in writing, to the department/school curriculum committee. The appeal must be made in writing within 10 calendar days of meeting with the department/school chair/director. The student shall indicate the reason they feel the final grade was capriciously or prejudicially assigned, the resolution they deem warranted, and the impact on the final grade in the course.

If a satisfactory agreement cannot be reached with the department/school, the student may submit a written appeal to the Dean of the College of Public Affairs and Community Service within 10 calendar days of the exhaustion of the departmental procedures. The student shall indicate the reason they feel the final grade was capriciously or prejudicially assigned, the resolution they deem warranted, and the impact on the final grade in the course.

### Appeals to the Dean's office should include the following:

- an account of the facts surrounding the awarding of the disputed grade;
- a complete account of steps taken at the department or program level to resolve the dispute;
- copies of documents relevant to the grade appeal, including a copy of the course syllabus;
- an explanation of how the relevant grades were calculated/miscalculated and the impact on the final grade in the course.

The appeal will be reviewed by the CPACS Appeal's Committee to determine whether evaluation of a student has been prejudiced or capricious. The review will include a determination of whether grade appeal procedures have been followed during the prior appeal stages.

## Academic Amnesty

The College of Public Affairs and Community Service (CPACS) academic amnesty policy gives students the opportunity to rebuild their University of Nebraska system cumulative grade point average (GPA). Review the following information and consult your academic advisor to learn more.

### Eligibility:

To be eligible for Academic Amnesty, students must:

- Have been out of the Nebraska system for at least one calendar year (12-month period).
- Have substandard coursework ("F" or "D" grades) earned within the University of Nebraska system (UNO, UNL, UNK, UNMC) prior to the year out (substandard grades earned after the year out will not be included in the Academic Amnesty contract).
- Be admitted as a degree-seeking student at the University of Nebraska.

### Amnesty Requirements:

- Academic Amnesty will begin with the first course(s) taken upon return to UNO.
- Students may apply for Academic Amnesty at any time after taking the one-year break.
- After returning from the one-year break, demonstrate academic success in new UNO coursework.
- Academic success may be demonstrated by one of the following:
  - Completing at least 12 semester hours (simultaneous or sequential) with a minimum of 3.0 cumulative GPA,
  - Completing at least 24 semester hours (simultaneous or sequential) with a minimum of 2.5 cumulative GPA.
- Students must maintain continuous enrollment (at least six (6) semester hours completed within any 12-month period).
- Students will work with their academic advisor to select the coursework to be amnestied.
- Students must inform an academic advisor when the Academic Amnesty requirements are met.

### Notes:

- All amnestied coursework will remain on the student's academic record (transcript); however, the courses will not be included in calculation of the student's grade point average. Courses will be annotated "Academic Amnesty Excluded from GPA" on the transcript.
- Once Academic Amnesty is granted, students will not be eligible for honors at graduation. Students are still eligible for Dean's List and Chancellor's List honors.
- While demonstrating academic success, no changes are made to the student's academic record. If a student's cumulative GPA is still below standard, the students will continue to be reported as "continued on probation." Should the student revert to substandard academic performance while working on Academic Amnesty, the student can still be suspended. Academic Amnesty is intended to provide relief from the past without providing immunity from future substandard academic performance.
- Students must still meet all university and college requirements to graduate.

## Academic Probation and Suspension

[https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/ \(p. 37\)](https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/ (p. 37))

## Reinstatement Policy Following Academic Suspension

[https://nextcatalog.unomaha.edu/undergraduate/grades/ \(p. 70\)](https://nextcatalog.unomaha.edu/undergraduate/grades/ (p. 70))[https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/ \(p. 37\)](https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/grades/ (p. 37))Academic Advising

The purpose of academic advising within the College of Public Affairs and Community Service is to provide guidance and support to students striving to meet degree requirements. CPACS academic advising is provided at the departmental level. Students are encouraged to communicate with an academic advisor prior to registration each semester and should contact an advisor with any academic program questions. It is especially important for students nearing graduation to consult with an academic advisor to ensure all program requirements are met.

### Advising Holds

Advising holds vary by academic unit. Please see your academic advisor for more information.

### Student Holds

[https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/ \(p. 30\)](https://nextcatalog.unomaha.edu/aboutuno/registration-to-graduation/enrollment/ (p. 30))

### Senior Check

The College of Public Affairs and Community Service expects that students are working with their academic advisor throughout the course of their program. Once 91 credit hours are achieved, we encourage you to schedule an appointment with your academic advisor to ensure there is a graduation plan in place to complete your requirements.

## Aviation

### College Vision Statement Mission/Vision

The mission of the Aviation Institute is to:

- provide an environment where students are supported and challenged as they develop the skills, knowledge, and experiences that prepare them for personally and professionally rewarding careers in aviation and transportation;
- conduct research that enhances the safety, security, efficiency, reliability, and sustainability of aviation and transportation services, and improves mobility and quality of life for the citizens of the State of Nebraska;
- engage the community through partnerships and other collaborative initiatives that improve the lives of the citizens of the State of Nebraska and others through innovative education, training, research, and service projects; and
- maintain the highest standards of integrity and transparency in the conduct of the Institute's business and the management and stewardship of its resources.

## Accreditation Information

One of the concentrations in the Bachelor of Science in Aviation, the Air Transport Administration Specialization, is accredited by the Aviation Accreditation Board, International

## General Information

### Maximum/Minimum Credits

Students are required to complete a minimum of 120 credit hours to complete a Bachelor of Science in Aviation.



## Residency Requirement

Default to College

## Transfer Credit Policy

See the Academic Advisor

## Unacceptable Credits

See the Academic Advisor

## Dean's List

Default to College

## Honors

Default to College

## Quality of Work

For purposes of meeting general education requirements, distribution requirements, and prerequisite requirements for courses, a grade of "C" performs the role of a grade of "C", and a grade of "D" performs the role of a grade of "D". A minimum grade of "C" (2.0) must be earned in each of the required courses within the major area of study.

## Completion of Incomplete Grade

Students who receive instructor permission to take an incomplete must have the incomplete resolved the following semester or the incomplete changes to withdraw. If a student has a question in regard to this policy, they should see their academic adviser for clarification

## Repeating Courses

n/a

## Grade Appeal Policy

Default to College

## Probation/Suspension

Default to College

## Academic Amnesty

Default to College

## Academic Advising

The Aviation Institute offers both academic and career advising to students. The academic advisor is available to assist students in meeting their career requirements and to interpret Institute and University policies regarding academic requirements. Students are encouraged to contact their advisor whenever questions arise concerning their academic program. As a minimum, students should see an advisor before registering for the next semester and review their academic progress, when choosing an area of specialty, and prior to registering for their senior year. The Aviation Institute faculty are also available to discuss career planning, opportunities, and advising. The faculty have a strong connection to the aviation industry and students are encouraged to use the faculty as a resource in determining their career goals. Students are encouraged to make an appointment as a freshman or sophomore with the Aviation Institute faculty to discuss their career path. For more information or to setup and appointment contact the Aviation Institute.

## Senior Check

See your Academic Advisor

## Application for Degree

Students apply for graduation through MavLINK.

## Scholarship and Internship Opportunities

There are several scholarship and internship opportunities available to students within the Aviation Institute. Scholarships for current UNOA students are awarded annually through an application process. The applications for these scholarships are available in November and are awarded at the Aviation Institute's annual honors convocation in April. Close partnerships with a number of Omaha metro organizations allow for several internship opportunities to current Aviation Institute students each semester. To apply for an internship, students must contact the internship coordinator, CPACS 120. A list of all UNOA scholarships and internships can be found on the Aviation Institute Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/aviation/academics/>).

## Advanced Simulation Facility

Flight students will use the Advanced Simulation Facility on a regular basis. Simulator fees are built into their student fees and are paid directly to the University of Nebraska at Omaha. The amount of time a student spends in the simulator will vary per semester depending on the flight lab requirements. Students will need to work with the Flight Training Coordinator to provide all necessary TSA documentation in order to use the flight simulators. The Aviation Institute currently has three Redbird MCX Simulators, one motion, two non-motion and a Boeing 737-800 NG FTD.

## Aviation Resource Center

The Aviation Resource Center is available to all Aviation students. In the Aviation Resource Center, students can utilize the many resources offered to help them achieve academic success. Resources available are: computers for research, testing, and personal use, printing services, FAA Practical Test Study Guides, Gleim Test Prep Software, Jeppesen Study Materials, King CD-Rom Study Courses, free use of PC-ATD simulator, Current Trade Magazines and Publications, Complete AOPA Air Facts DVD Series, Sporty's Training DVDs, ASA Study Guides, complete collections of Jeppesen Training Videos, current copies of FAA's FAR/AIM, tutoring, various aviation related referencing textbooks, ASA-JSCH PP2 headsets, Garmin 396, and a Garmin 295.

In addition, the Aviation Resource Center is a certified FAA Testing Center, where students can take FAA Practical Exams.

## Financial Aid

Students should apply for financial aid as directed by the Office of Financial Support and Scholarships and at the beginning of each calendar year thereafter. Priority is given to applicants who apply early. Additional financial aid may be available to qualified students to pay for the added cost of flight training. See the Aviation Institute academic advisor for information regarding additional financial aid for flight training. Flight training is optional and not required for students working toward the Air Transport Administration or Unmanned Aircraft Systems concentrations.

## Language Fluency

International and other students enrolling in the Aviation Institute for whom English is not their primary language will be required to be sufficiently fluent in English as a second language. This requirement is particularly critical for successfully completing the flight training portion of the Institute's curriculum.

## Program Contact Information

402.554.3424

[unoaviation@unomaha.edu](mailto:unoaviation@unomaha.edu)



Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/aviation/academics/>)

## Admission Requirements

Incoming students who are not considered transfer students are guaranteed admission to the Bachelor of Science in Aviation program upon admission to the University of Nebraska at Omaha. Transfer students who want to complete the Bachelor of Science in Aviation Program must have a cumulative GPA of 2.5 to be accepted into the College of Public Affairs and Community Service. Current UNO students accepted for admission to any of the University's colleges may enroll in the Institute's aviation courses for elective credit.

## Degrees Offered

- Aviation, Bachelor of Science (p. 687)

## Overview of Degree Programs

### Air Transport Administration Concentration

The Air Transport Administration area of concentration is conferred under the Bachelor of Science in Aviation degree program. This option is oriented toward the public/private sector interface of individuals looking for administration careers. Potential career opportunities exist within the Federal Aviation Administration, Transportation Security Administration, National Transportation Safety Board, state aviation organizations, local and regional aviation organizations, airport administration, fixed-based operators, aviation consulting firms, airline operations, flight department operations, aircraft manufacturing companies, aviation marketing firms, and non-profit organizations such as Aircraft Owners and Pilot Association, National Business Aviation Association, and the Experimental Aircraft Association. The Air Transport Administration specialization gives the student the opportunity to gain knowledge in several aspects of the aviation and aerospace industry. Students will take specific classes in areas of general aviation, airport planning, statistical analysis, security, and airline operations. Students will also have the opportunity to become involved in an internship or cooperative education experience. This experience will expose students to working in an area that relates to their potential career path; both local and national programs are available. Students who are looking to work in these highly competitive and regulated areas should choose the Air Transport Administration specialization program for their course of study.

### Professional Flight Concentration

The Aviation Institute offers flight training from private pilot to certified flight instructor. Flight training is closely coordinated through local flight schools. Students who successfully complete any of the training under UNO requirements courses will receive appropriate academic credit. The Aviation Institute's Professional Flight curriculum is approved by the FAA to grant the Restricted Airline Transport Pilot (R-ATP) authorization to graduates. With the R-ATP, a pilot can be hired by a FAA Part 121 scheduled airline at age 21 with 1,000 flight hours versus at age 23 and 1,500 flight hours. Students who plan on enrollment in a flight training course should be able to successfully complete a first class aviation medical examination conducted by an FAA designated Aviation Medical Examiner accordance with Federal Aviation Regulation Part 67, *Medical Standards and Certification*. **Flight costs are paid directly to the flight provider where you conduct your training and are in addition to regular University tuition and fees.** Approximate costs for flight training are available in the Aviation Student Handbook. Costs for each training phase are based on the average number of hours required by the FAA for that particular phase. If a student requires additional flying or ground training to complete a particular training phase course, the student will be obligated to pay for the extra training. Additional financial aid is available for flight training, but does not cover 100% of flight training costs.

Flight training schedules are arranged by the student and flight instructor at each flight center. Students are responsible for contacting the flight training provider and establishing a schedule that will allow for completion of course requirements within the time allowed. It is suggested that students plan to fly three times a week. Instructors are available day, night, and weekends. For a current list of flight providers, see the Aviation Institute Web site at [ai.unomaha.edu](http://ai.unomaha.edu) (<http://ai.unomaha.edu/>). Consult with an aviation academic adviser for additional information.

## Uncrewed Aircraft Systems Operations Concentration

The Uncrewed Aircraft Systems Operations area of concentration is conferred under the Bachelor of Science in Aviation degree program. This concentration will prepare a student for a career in operating uncrewed aircraft as well as management and operations of a company or organization that utilizes uncrewed aircraft.

## Minors

- Minor in Aviation (p. 693)
- Uncrewed Aircraft System (UAS) Drone Technology (p. 693)

## Bachelor of Science in Aviation-Air Transport Administration Concentration

The Bachelor of Science in Aviation-Air Transport Administration prepares students for careers in airport administration, corporate and general aviation, operations management, airline operations, consulting and federal government opportunities.

### Career Opportunities

- Airline Management
- Airline Operations
- Airport Management
- Airport Operations
- Airport Planning
- Government (FAA, TSA, NTSB)
- Corporate Aviation Management
- Client Services
- Fleet Planning
- Safety & Security
- Aircraft Sales/Aviation Parts & Avionics Sales
- FBO Operations
- FBO Management

## Bachelor of Science in Aviation-Professional Flight Specialization

The Bachelor of Science in Aviation-Professional Flight is designed for students interested in becoming a professional pilot. The program will prepare the student with a comprehensive general education program, aviation core of classes and take them through their Private, Instrument, Commercial, Certified Flight Instructor and Multi Engine Ratings. Graduates of this program will qualify for the Restricted Airline Transport Pilot program through the FAA.

### Career Opportunities

- Airline Pilot
- Corporate Pilot
- Cargo Pilot

- Charter Pilot
- Certified Flight Instructor

## Bachelor of Science in Aviation-Uncrewed Aircraft Systems Operations Specialization

The Bachelor of Science in Aviation-Uncrewed Aircraft Systems Operations is designed for students who would like to build a career in the new and developing world of UAS Operations. Courses will include a comprehensive general education curriculum, aviation core classes and concentrated areas in uncrewed aircrafts. Students will not only focus on flying uncrewed aircraft, but also developing the skills to manage a full operation and learn to utilize the data and imagery collected.

### Career Opportunities

- Drone Operator
- Agriculture
- Aerial Systems Logistics
- Emergency Management
- Photography/Videography
- Transportation Industry (Aviation, Rail, etc.)
- Real Estate

## Aviation, Bachelor of Science in Aviation, Air Transport Administration Concentration:

The curriculum includes the University of Nebraska at Omaha's (UNO) general education requirements, departmental requirements, a core of aviation classes and specialized courses in air transport administration. All students in a degree program in the aviation department must meet the university general education requirements. Additional information on these requirements can be found in this catalog and on the University General Education website (<https://www.unomaha.edu/general-education/>). Please contact an academic advisor for recommended choices for the major. Certain majors/programs in the Aviation Institute require specific foundational coursework that may also count for General Education requirements. For further information and details, contact an academic advisor.

## Bachelor of Science in Aviation, Professional Flight Concentration:

The curriculum includes the UNO's general education requirements, departmental requirements, a core of aviation classes and specialized courses in professional flight. All students in a degree program in the aviation department must meet the university general education requirements. Additional information on these requirements can be found in this catalog and on the University General Education website (<https://www.unomaha.edu/general-education/>). Please contact an academic advisor for recommended choices for the major. Certain majors/programs in the Aviation Institute require specific foundational coursework that may also count for General Education requirements. For further information and details, contact an academic advisor.

## Bachelor of Science in Aviation, Uncrewed Aircraft Systems Concentration:

The curriculum includes the UNO's general education requirements, departmental requirements, a core of aviation classes and specialized courses in unmanned aircraft systems. All students in a degree program in the aviation department must meet the university general education requirements. Additional information on these requirements can be found in this catalog and on the University General Education website (<https://www.unomaha.edu/general-education/>). Please contact an academic advisor for recommended choices for the major. Certain majors/programs in the Aviation Institute require specific foundational coursework that may also count for General Education requirements. For further information and details, contact an academic advisor.

## Aviation, Bachelor of Science in Aviation Requirements

| Code  | Title   | Credits      |
|---|---|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |              |
| Minimum of "C-" required  |   |              |
| <b>Fundamental Skills</b>   |   | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |   |              |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |              |
| <b>Oral Communication – 3 hrs.</b>  |   |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |              |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |              |
| STAT 1530   | ELEMENTARY STATISTICS                                   |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| <b>MAJOR REQUIREMENTS - 49-50 Hours Required</b>  |   |              |
| **Course will satisfy UNO's General Education requirement   |   |              |
| ^Course requires pre-requisite(s)   |   |              |
| <b>All of the following:</b>  |   | <b>49-50</b> |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT (**)                       |              |
| or MATH 1220  | COLLEGE ALGEBRA   |              |

|                                   |   |
|-----------------------------------|---|
| or MATH 1320                      | COLLEGE ALGEBRA   |
| AVN 3060                          | WRITING IN AVIATION (** ^)                                  |
| AVN 2510                          | DIVERSITY IN AVIATION (** ^)                                |
| AVN 3600                          | INTERNATIONAL AVIATION (^)                                  |
| PHYS 1050                         | INTRODUCTION TO PHYSICS (** ^)                              |
| ECON 2200                         | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                      |
| PA 3000                           | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| PSCI 1100                         | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)           |
| AVN 1000                          | INTRODUCTION TO AVIATION AND AEROSPACE (** ^)               |
| AVN 1020                          | PRIVATE PILOT THEORY  |
| AVN 1040                          | HISTORY OF AVIATION AND AEROSPACE (**)                      |
| AVN 1160                          | AVIATION SAFETY (^)   |
| AVN 2020                          | AIRLINE OPERATIONS (^)                                      |
| AVN 2050                          | INTRODUCTION TO AIRPORT ADMINISTRATION (^)                  |
| AVN 2750                          | AVIATION METEOROLOGY (^)                                    |
| AVN 3150                          | AVIATION LAW (^)  |
| <b>Select a concentration</b>     |   |
| Air Transportation Administration |   |
| Professional Flight               |   |
| Uncrewed Aircraft Systems         |   |

**27-43****ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Aviation, Bachelor of Science Concentrations

- Air Transport Administration (p. 688)
- Professional Flight (p. 690)
- Uncrewed Aircraft Systems (p. 691)

## Air Transportation Administration Concentration

### Aviation, Bachelor Science - Air Transportation Administration Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |

|              |   |
|--------------|---|
| or MATH 1130 | QUANTITATIVE LITERACY                               |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                        |

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility** **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 49-50 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following:** **49-50**

|  |   |
|--|---|
| MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT (**)                           |
| or MATH 1220   | COLLEGE ALGEBRA   |
| or MATH 1320   | COLLEGE ALGEBRA   |
| AVN 3060   | WRITING IN AVIATION (^)                                     |
| AVN 2510   | DIVERSITY IN AVIATION (** ^)                                |
| AVN 3600   | INTERNATIONAL AVIATION (^)                                  |
| PHYS 1050  | INTRODUCTION TO PHYSICS (** ^)                              |
| ECON 2200  | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                      |
| PA 3000  | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| PSCI 1100  | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)           |
| AVN 1000   | INTRODUCTION TO AVIATION AND AEROSPACE (** ^)               |
| AVN 1020   | PRIVATE PILOT THEORY  |
| AVN 1040   | HISTORY OF AVIATION AND AEROSPACE (**)                      |
| AVN 1160   | AVIATION SAFETY (^)   |
| AVN 2020   | AIRLINE OPERATIONS (^)                                      |
| AVN 2050   | INTRODUCTION TO AIRPORT ADMINISTRATION (^)                  |
| AVN 2750   | AVIATION METEOROLOGY (^)                                    |
| AVN 3150   | AVIATION LAW (^)  |
| <b>Air Transportation Administration Concentration - 27 Hours Required</b> |   |
| <b>All of the following:</b>   |   |
| <b>21</b>  |   |
| AVN 3000   | BUSINESS AND CORPORATE AVIATION (^)                         |
| AVN 3090   | AIRPORT ADMINISTRATION AND PLANNING (^)                     |
| AVN 3200   | COOPERATIVE EDUCATION IN AVIATION (^)                       |
| or AVN 4200  | INTERNSHIP IN AVIATION                                      |
| AVN 3700   | TRANSPORTATION ANALYSIS (^)                                 |
| AVN 4050   | GENERAL AVIATION OPERATIONS (^)                             |

|                                    |                                 |          |
|------------------------------------|---------------------------------|----------|
| AVN 4080                           | AIRPORT SAFETY AND SECURITY (^) |          |
| AVN 4990                           | AIR TRANSPORTATION (^)          |          |
| <b>Additional Aviation Courses</b> |                                 | <b>6</b> |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Aviation, Bachelor Science - Air Transportation Administration Concentration Four Year Plan

**Freshman**

| <b>Fall</b> |  | <b>Credits</b> |
|-------------|--|----------------|
| ENGL 1150   | ENGLISH COMPOSITION I                        | 3              |
| MATH 1220   | COLLEGE ALGEBRA <sup>1</sup>                 | 3              |
| AVN 1000    | INTRODUCTION TO AVIATION AND AEROSPACE       | 3              |
| AVN 1020    | PRIVATE PILOT THEORY                         | 3              |
| PSCI 1100   | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT | 3              |

**Credits 15****Spring**

|                                      |   |   |
|--------------------------------------|---|---|
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3 |
| CMST 1110                            | PUBLIC SPEAKING FUNDS                     | 3 |
| AVN 1160                             | AVIATION SAFETY                           | 3 |
| AVN 2020                             | AIRLINE OPERATIONS                        | 3 |
| General Education Course or Elective |   | 3 |

**Credits 15****Sophomore**

| <b>Fall</b> |  |   |
|-------------|--|---|
| AVN 2050    | INTRODUCTION TO AIRPORT ADMINISTRATION | 3 |
| AVN 2750    | AVIATION METEOROLOGY                   | 3 |
| AVN 2510    | DIVERSITY IN AVIATION                  | 3 |
| PHYS 1050   | INTRODUCTION TO PHYSICS                | 4 |
| PHYS 1054   | INTRODUCTION TO PHYSICS LABORATORY     | 1 |
|             |  | 3 |

**Credits 17****Spring**

|                                      |                                   |   |
|--------------------------------------|-----------------------------------|---|
| AVN 3060                             | WRITING IN AVIATION               | 3 |
| AVN 1040                             | HISTORY OF AVIATION AND AEROSPACE | 3 |
| ECON 2200                            | PRINCIPLES OF ECONOMICS (MICRO)   | 3 |
| General Education Course or Elective |                                   | 3 |
| General Education Course or Elective |                                   | 3 |

**Credits 15****Junior**

| <b>Fall</b>                |   |   |
|----------------------------|---|---|
| AVN 3000                   | BUSINESS AND CORPORATE AVIATION                         | 3 |
| AVN 3150                   | AVIATION LAW  | 3 |
| PA 3000                    | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR | 3 |
| Open Elective <sup>2</sup> |   | 3 |
| Open Elective <sup>2</sup> |   | 3 |

**Credits 15****Spring**

|                                |                                     |   |
|--------------------------------|-------------------------------------|---|
| AVN 3090                       | AIRPORT ADMINISTRATION AND PLANNING | 3 |
| AVN 4050                       | GENERAL AVIATION OPERATIONS         | 3 |
| Aviation Elective <sup>3</sup> |                                     | 3 |
| Open Elective <sup>2</sup>     |                                     | 3 |
| Open Elective <sup>2</sup>     |                                     | 3 |

**Credits 15****Senior**

| <b>Fall</b>                    |                         |   |
|--------------------------------|-------------------------|---|
| AVN 3700                       | TRANSPORTATION ANALYSIS | 3 |
| AVN 4200                       | INTERNSHIP IN AVIATION  | 3 |
| Aviation Elective <sup>3</sup> |                         | 3 |
| Open Elective <sup>2</sup>     |                         | 3 |
| Open Elective <sup>2</sup>     |                         | 3 |

**Credits 15****Spring**

|                            |                             |   |
|----------------------------|-----------------------------|---|
| AVN 3600                   | INTERNATIONAL AVIATION      | 3 |
| AVN 4990                   | AIR TRANSPORTATION          | 3 |
| AVN 4080                   | AIRPORT SAFETY AND SECURITY | 3 |
| Open Elective <sup>2</sup> |                             | 3 |
| Open Elective <sup>2</sup> |                             | 1 |

**Credits 13****Total Credits 120**

<sup>1</sup> Student could potentially test out of Math 1220 or based off testing need a lower level math course.

<sup>2</sup> It is highly recommended that a student consider a Minor to fill open Electives

<sup>3</sup> Aviation Electives are classes a student chooses within the aviation department based on their specified interests. Each Administration student must complete 6 credit hours.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

# Professional Flight Concentration

## Aviation, Bachelor of Science - Professional Flight Concentration Requirements

| Code  | Title   | Credits      |
|---|---|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |              |
| Minimum of "C-" required  |   |              |
| <b>Fundamental Skills</b>   |   | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |   |              |
| ENGL 1150   | ENGLISH COMPOSITION I                                       |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                   |              |
| <b>Oral Communication – 3 hrs.</b>  |   |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                       |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                    |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING     |              |
| or MATH 1130  | QUANTITATIVE LITERACY                                       |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS         |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                             |              |
| STAT 1530   | ELEMENTARY STATISTICS                                       |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| <b>MAJOR REQUIREMENTS - 49-50 Hours Required</b>  |   |              |
| **Course will satisfy UNO's General Education requirement   |   |              |
| ^Course requires pre-requisite(s)   |   |              |
| <b>All of the following:</b>  |   | <b>49-50</b> |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                                |              |
| or MATH 1220  | COLLEGE ALGEBRA   |              |
| or MATH 1320  | COLLEGE ALGEBRA   |              |
| AVN 3060  | WRITING IN AVIATION (^)                                     |              |
| AVN 2510  | DIVERSITY IN AVIATION (** ^)                                |              |
| AVN 3600  | INTERNATIONAL AVIATION (^)                                  |              |
| PHYS 1050   | INTRODUCTION TO PHYSICS (** ^)                              |              |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                      |              |
| PA 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |              |

|  |   |           |
|--|---|-----------|
| PSCI 1100  | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |           |
| AVN 1000   | INTRODUCTION TO AVIATION AND AEROSPACE (** ^)     |           |
| AVN 1020   | PRIVATE PILOT THEORY                              |           |
| AVN 1040   | HISTORY OF AVIATION AND AEROSPACE (**)            |           |
| AVN 1160   | AVIATION SAFETY (^)                               |           |
| AVN 2020   | AIRLINE OPERATIONS (^)                            |           |
| AVN 2050   | INTRODUCTION TO AIRPORT ADMINISTRATION (^)        |           |
| AVN 2750   | AVIATION METEOROLOGY (^)                          |           |
| AVN 3150   | AVIATION LAW (^)                                  |           |
| <b>Professional Flight Concentration</b>                 |   | <b>43</b> |
| AVN 1024   | PRIVATE PILOT FLIGHT LABORATORY (^)               |           |
| AVN 1030   | PRIVATE PILOT FLIGHT CERTIFICATE (^)              |           |
| AVN 2170   | INSTRUMENT FLIGHT THEORY (^)                      |           |
| AVN 2104   | INSTRUMENT RATING 1 (^)                           |           |
| AVN 2114   | INSTRUMENT RATING 2 (^)                           |           |
| AVN 2180   | COMMERCIAL PILOT THEORY (^)                       |           |
| AVN 2124   | COMMERCIAL PILOT CERTIFICATE 1 (^)                |           |
| AVN 2134   | COMMERCIAL PILOT CERTIFICATE 2 (^)                |           |
| AVN 2144   | COMMERCIAL PILOT CERTIFICATE 3 (^)                |           |
| AVN 3040   | HUMAN FACTORS IN AVIATION SAFETY (^)              |           |
| AVN 3070   | AIR TRAFFIC CONTROL                               |           |
| AVN 3190   | CERTIFIED FLIGHT INSTRUCTOR THEORY (^)            |           |
| AVN 3194   | CERTIFIED FLIGHT INSTRUCTOR I (^)                 |           |
| AVN 3400   | MULTI-ENGINE CERTIFICATION (^)                    |           |
| AVN 4010   | AERODYNAMICS AND AIRCRAFT PERFORMANCE (^)         |           |
| AVN 4020   | AIRCRAFT SYSTEMS (^)                              |           |
| AVN 4060   | ADVANCED AIR TRANSPORT FLIGHT OPERATIONS (^)      |           |
| AVN 4080   | AIRPORT SAFETY AND SECURITY (^)                   |           |
| <b>ELECTIVES</b>   |   |           |
| Elective hours as required to reach a total of 120 hours |   |           |

## Aviation, Bachelor of Science - Professional Flight Concentration Four Year Plan

| <b>Freshman</b> |  | <b>Credits</b> |
|-----------------|--|----------------|
| <b>Fall</b>     |  |                |
| ENGL 1150       | ENGLISH COMPOSITION I                        | 3              |
| MATH 1220       | COLLEGE ALGEBRA <sup>1</sup>                 | 3              |
| AVN 1000        | INTRODUCTION TO AVIATION AND AEROSPACE       | 3              |
| AVN 1020        | PRIVATE PILOT THEORY                         | 3              |
| PSCI 1100       | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT | 3              |
| AVN 1024        | PRIVATE PILOT FLIGHT LABORATORY              | 1              |
| <b>Credits</b>  |  | <b>16</b>      |
| <b>Spring</b>   |  |                |
| ENGL 1160       | COLLEGE RESEARCH AND INFORMATION LITERACY    | 3              |
| CMST 1110       | PUBLIC SPEAKING FUNDS                        | 3              |



|          |                                  |   |
|----------|----------------------------------|---|
| AVN 1160 | AVIATION SAFETY                  | 3 |
| AVN 1030 | PRIVATE PILOT FLIGHT CERTIFICATE | 2 |
| AVN 2750 | AVIATION METEOROLOGY             | 3 |

|  |                |           |
|--|----------------|-----------|
|  | <b>Credits</b> | <b>14</b> |
|--|----------------|-----------|

### Sophomore Fall

|           |  |   |
|-----------|--|---|
| AVN 2050  | INTRODUCTION TO AIRPORT ADMINISTRATION | 3 |
| AVN 2170  | INSTRUMENT FLIGHT THEORY               | 3 |
| AVN 2104  | INSTRUMENT RATING 1                    | 2 |
| PHYS 1050 | INTRODUCTION TO PHYSICS                | 4 |
| PHYS 1054 | INTRODUCTION TO PHYSICS LABORATORY     | 1 |

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|  |                |           |
|--|----------------|-----------|
|  | <b>Credits</b> | <b>16</b> |
|--|----------------|-----------|

### Spring

|           |                                   |   |
|-----------|-----------------------------------|---|
| AVN 1040  | HISTORY OF AVIATION AND AEROSPACE | 3 |
| AVN 2020  | AIRLINE OPERATIONS                | 3 |
| AVN 2114  | INSTRUMENT RATING 2               | 1 |
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO)   | 3 |

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|                                      |  |   |
|--------------------------------------|--|---|
| General Education Course or Elective |  | 3 |
|--------------------------------------|--|---|

|  |                |           |
|--|----------------|-----------|
|  | <b>Credits</b> | <b>16</b> |
|--|----------------|-----------|

### Junior

#### Fall

|          |   |   |
|----------|---|---|
| AVN 2124 | COMMERCIAL PILOT CERTIFICATE 1                          | 2 |
| AVN 2180 | COMMERCIAL PILOT THEORY                                 | 3 |
| AVN 2510 | DIVERSITY IN AVIATION                                   | 3 |
| AVN 3150 | AVIATION LAW  | 3 |
| PA 3000  | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR | 3 |

|  |                |           |
|--|----------------|-----------|
|  | <b>Credits</b> | <b>14</b> |
|--|----------------|-----------|

### Spring

|          |                                  |   |
|----------|----------------------------------|---|
| AVN 2134 | COMMERCIAL PILOT CERTIFICATE 2   | 2 |
| AVN 2144 | COMMERCIAL PILOT CERTIFICATE 3   | 2 |
| AVN 3040 | HUMAN FACTORS IN AVIATION SAFETY | 3 |
| AVN 3060 | WRITING IN AVIATION              | 3 |
| AVN 3070 | AIR TRAFFIC CONTROL              | 3 |

|                            |  |   |
|----------------------------|--|---|
| Open Elective <sup>2</sup> |  | 3 |
|----------------------------|--|---|

|  |                |           |
|--|----------------|-----------|
|  | <b>Credits</b> | <b>16</b> |
|--|----------------|-----------|

### Senior

#### Fall

|                                      |                                       |   |
|--------------------------------------|---------------------------------------|---|
| AVN 3400                             | MULTI-ENGINE CERTIFICATION            | 2 |
| AVN 4010                             | AERODYNAMICS AND AIRCRAFT PERFORMANCE | 3 |
| AVN 4020                             | AIRCRAFT SYSTEMS                      | 3 |
| General Education Course or Elective |                                       | 3 |
| Open Elective                        |                                       | 3 |

|  |                |           |
|--|----------------|-----------|
|  | <b>Credits</b> | <b>14</b> |
|--|----------------|-----------|

### Spring

|          |                                    |   |
|----------|------------------------------------|---|
| AVN 3190 | CERTIFIED FLIGHT INSTRUCTOR THEORY | 3 |
| AVN 3194 | CERTIFIED FLIGHT INSTRUCTOR I      | 2 |
| AVN 3600 | INTERNATIONAL AVIATION             | 3 |
| AVN 4080 | AIRPORT SAFETY AND SECURITY        | 3 |

|          |  |   |
|----------|--|---|
| AVN 4060 | ADVANCED AIR TRANSPORT FLIGHT OPERATIONS | 3 |
|----------|--|---|

|                |           |
|----------------|-----------|
| <b>Credits</b> | <b>14</b> |
|----------------|-----------|

|                      |            |
|----------------------|------------|
| <b>Total Credits</b> | <b>120</b> |
|----------------------|------------|

<sup>1</sup> Student could potentially test out of Math 1220 or based off testing need a lower level math course.

\* Students typically fly in summer months, labs could run in summer.

\*\* It is highly recommended that a student consider a Minor to fill open Electives

<sup>2</sup> Aviation Electives are classes a student chooses within the aviation department based on their specified interests. Each Administration student must complete 6 credit hours.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Uncrewed Aircraft Systems Concentration

### Aviation, Bachelor of Science - Uncrewed Aircraft Systems Concentration Requirements

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |

|                         |  |  |
|-------------------------|--|--|
| Minimum of "C-"required |  |  |
|-------------------------|--|--|

|                           |           |
|---------------------------|-----------|
| <b>Fundamental Skills</b> | <b>15</b> |
|---------------------------|-----------|

#### Writing – 6 hrs.

|           |                       |
|-----------|-----------------------|
| ENGL 1150 | ENGLISH COMPOSITION I |
|-----------|-----------------------|

|           |   |
|-----------|---|
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |
|-----------|---|

#### Oral Communication – 3 hrs.

|           |                       |
|-----------|-----------------------|
| CMST 1110 | PUBLIC SPEAKING FUNDS |
|-----------|-----------------------|

|              |                          |
|--------------|--------------------------|
| or CMST 2120 | ARGUMENTATION AND DEBATE |
|--------------|--------------------------|

#### Quantitative Literacy – 3 hrs.



|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 49-50 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following: 49-50**

|              |   |
|--------------|---|
| MATH 1300    | COLLEGE ALGEBRA WITH SUPPORT (**)                           |
| or MATH 1220 | COLLEGE ALGEBRA   |
| or MATH 1320 | COLLEGE ALGEBRA   |
| AVN 3060     | WRITING IN AVIATION (^)                                     |
| AVN 2510     | DIVERSITY IN AVIATION (** ^)                                |
| AVN 3600     | INTERNATIONAL AVIATION (^)                                  |
| PHYS 1050    | INTRODUCTION TO PHYSICS (** ^)                              |
| ECON 2200    | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                      |
| PA 3000      | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| PSCI 1100    | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)           |
| AVN 1000     | INTRODUCTION TO AVIATION AND AEROSPACE (** ^)               |
| AVN 1020     | PRIVATE PILOT THEORY  |
| AVN 1040     | HISTORY OF AVIATION AND AEROSPACE (**)                      |
| AVN 1160     | AVIATION SAFETY (^)   |
| AVN 2020     | AIRLINE OPERATIONS (^)                                      |
| AVN 2050     | INTRODUCTION TO AIRPORT ADMINISTRATION (^)                  |
| AVN 2750     | AVIATION METEOROLOGY (^)                                    |
| AVN 3150     | AVIATION LAW (^)  |

**Unmanned Aircraft Systems Concentration - 31**

|           |   |
|-----------|---|
| AVN 1500  | INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS (^)   |
| GEOG 1090 | INTRODUCTION TO GEOSPATIAL SCIENCES (** ^)      |
| AVN 2500  | UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS (^) |
| JMC 2320  | VIDEO FIELD PRODUCTION (^)                      |
| AVN 3040  | HUMAN FACTORS IN AVIATION SAFETY (^)            |

|           |   |
|-----------|---|
| AVN 3700  | TRANSPORTATION ANALYSIS (^)                       |
| GEOG 4050 | GEOGRAPHIC INFORMATION SYSTEMS I (^)              |
| GEOG 3530 | CARTOGRAPHY AND DATA VISUALIZATION                |
| AVN 4500  | ADVANCED UNMANNED AIRCRAFT SYSTEMS PROCEDURES (^) |
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)                   |
| AVN 4990  | AIR TRANSPORTATION (^)                            |
| AVN 4200  | INTERNSHIP IN AVIATION (^)                        |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Aviation, Bachelor of Science - Uncrewed Aircraft Systems Concentration Four Year Plan

**Freshman**

| Fall           |  | Credits   |
|----------------|--|-----------|
| ENGL 1150      | ENGLISH COMPOSITION I                  | 3         |
| MATH 1220      | COLLEGE ALGEBRA <sup>1</sup>           | 3         |
| AVN 1000       | INTRODUCTION TO AVIATION AND AEROSPACE | 3         |
| AVN 1020       | PRIVATE PILOT THEORY                   | 3         |
| GEOG 1090      | INTRODUCTION TO GEOSPATIAL SCIENCES    | 4         |
| <b>Credits</b> |  | <b>16</b> |

**Spring**

|                |  |           |
|----------------|--|-----------|
| AVN 1500       | INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS    | 3         |
| AVN 1160       | AVIATION SAFETY                              | 3         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY    | 3         |
| CMST 1110      | PUBLIC SPEAKING FUNDS                        | 3         |
| PSCI 1100      | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT | 3         |
| <b>Credits</b> |  | <b>15</b> |

**Sophomore**

| Fall           |   |           |
|----------------|---|-----------|
| AVN 2500       | UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS | 3         |
| JMC 2320       | VIDEO FIELD PRODUCTION                      | 3         |
| AVN 1040       | HISTORY OF AVIATION AND AEROSPACE           | 3         |
| AVN 2750       | AVIATION METEOROLOGY                        | 3         |
| PHYS 1050      | INTRODUCTION TO PHYSICS                     | 4         |
| <b>Credits</b> |   | <b>16</b> |

**Spring**

|                |  |           |
|----------------|--|-----------|
| AVN 2020       | AIRLINE OPERATIONS                     | 3         |
| ECON 2200      | PRINCIPLES OF ECONOMICS (MICRO)        | 3         |
| AVN 3040       | HUMAN FACTORS IN AVIATION SAFETY       | 3         |
| AVN 2050       | INTRODUCTION TO AIRPORT ADMINISTRATION | 3         |
| Humanities     |  | 3         |
| <b>Credits</b> |  | <b>15</b> |

**Junior**

| Fall     |                     |   |
|----------|---------------------|---|
| AVN 3060 | WRITING IN AVIATION | 3 |

|                      |   |            |
|----------------------|---|------------|
| PA 3000              | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR | 3          |
| ENTR 3710            | ENTREPRENEURIAL FOUNDATIONS                             | 3          |
| GEOG 4050            | GEOGRAPHIC INFORMATION SYSTEMS I                        | 4          |
| Arts                 |   | 3          |
| <b>Credits</b>       |   | <b>16</b>  |
| <b>Spring</b>        |   |            |
| AVN 4500             | ADVANCED UNMANNED AIRCRAFT SYSTEMS PROCEDURES           | 3          |
| AVN 3150             | AVIATION LAW  | 3          |
| AVN 3600             | INTERNATIONAL AVIATION                                  | 3          |
| Cultural Knowledge   |   | 3          |
| Open Elective        |   | 3          |
| <b>Credits</b>       |   | <b>15</b>  |
| <b>Senior</b>        |   |            |
| <b>Fall</b>          |   |            |
| AVN 3700             | TRANSPORTATION ANALYSIS                                 | 3          |
| AVN 2510             | DIVERSITY IN AVIATION                                   | 3          |
| AVN 4200             | INTERNSHIP IN AVIATION                                  | 3          |
| Open Elective        |   | 3          |
| Open Elective        |   | 3          |
| <b>Credits</b>       |   | <b>15</b>  |
| <b>Spring</b>        |   |            |
| AVN 4990             | AIR TRANSPORTATION                                      | 3          |
| GEOG 3530            | CARTOGRAPHY AND DATA VISUALIZATION                      | 4.0        |
| Open Elective        |   | 3          |
| Open Elective        |   | 2          |
| <b>Credits</b>       |   | <b>12</b>  |
| <b>Total Credits</b> |   | <b>120</b> |

<sup>1</sup> Math courses depend on the ACT subscore, students could need a lower level math or test out completely as well.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Minor in Aviation

### Aviation Minor Requirements

An aviation minor is available to students who are interested in achieving an associated aviation background to supplement their major area of study. The aviation minor has been developed as an interdisciplinary program to broaden the educational opportunities for UNO students. Consistent with the current and future demands of the aviation industry is the need for quality educated and trained professionals from a variety of disciplines. This program will provide the aviation foundation to prepare a student from any major to meet those needs as a professional in an aviation-related field.

A minor in aviation requires a minimum of 18 credit hours, including at least nine hours of upper-level aviation courses. A minimum grade of "C-" is required in each course. The minor can complement any major at the University of Nebraska at Omaha and has been a popular choice among students in criminology and criminal justice, computer science, international studies, geography, public administration, management and marketing.

For the minor to appear on the student's transcript, it must be declared by completing the minor application at the Aviation Institute. To obtain additional information about the minor options and to develop a plan of study, students should contact an academic adviser from the Aviation Institute, Room 120, CPACS Building, 402.554.3424.

## Uncrewed Aircraft System (UAS) Drone Technology Minor

### Uncrewed Aircraft System (UAS)/Drone Technology Minor Requirements

A minimum of 18 credit hours in total is required for the UAS minor.

| Code  | Title   | Credits  |
|---|---|----------|
| <b>Required UAS courses</b>   |   | <b>9</b> |
| AVN 1500  | INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS             |          |
| AVN 2500  | UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS           |          |
| AVN 4500  | ADVANCED UNMANNED AIRCRAFT SYSTEMS PROCEDURES         |          |
| <b>Select at least 9 credit hours from the following options to complete the minor at least 6 credit hours of coursework must be at the 3000 level or higher.</b> |   | <b>9</b> |
| School of Public Administration – Emergency Management and Disaster Science   |   |          |
| EMGT 1000   | INTRODUCTION TO EMERGENCY MANAGEMENT                  |          |
| EMGT 2020   | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION     |          |
| EMGT 2050   | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES |          |
| EMGT 3040   | PREPAREDNESS/PLANNING AND RISK MITIGATION             |          |
| EMGT 3080   | AGENCY COLLABORATION DURING DISASTERS                 |          |
| EMGT 4060   | DISASTER RESPONSE AND RECOVERY                        |          |
| School of Criminology and Criminal Justice  |   |          |

|           |   |
|-----------|---|
| CRCJ 1010 | CRIME TO COURTROOM: THE JUSTICE JOURNEY |
| CRCJ 2030 | POLICE AND SOCIETY                      |
| CRCJ 2410 | CRIMINAL PROCEDURE                      |
| CRCJ 4540 | CRIMINAL INVESTIGATIONS                 |
| CRCJ 4560 | HOMICIDE INVESTIGATIONS                 |
| CRCJ 4760 | TERRORISM                               |
| CRCJ 4790 | CYBER & COMPUTER CRIMES                 |

School of Communication – Journalism and Media Communications

|          |                             |
|----------|-----------------------------|
| JMC 2200 | MEDIA PRODUCTION PRINCIPLES |
| JMC 2320 | VIDEO FIELD PRODUCTION      |

Department of Geography and Geology

|          |                                    |
|----------|------------------------------------|
| JMC 2110 | PHOTOGRAPHY                        |
| JMC 4320 | TELEVISION COMMERCIAL PRODUCTION   |
| JMC 4340 | SPORTS BROADCASTING AND PRODUCTION |

|           |                                      |
|-----------|--------------------------------------|
| GEOG 1090 | INTRODUCTION TO GEOSPATIAL SCIENCES  |
| GEOG 3440 | NEBRASKA NATURAL RESOURCES MANAGMENT |
| GEOG 3530 | CARTOGRAPHY AND DATA VISUALIZATION   |

|           |                                    |
|-----------|------------------------------------|
| GEOG 4010 | CONSERVATION OF NATURAL RESOURCES  |
| GEOG 4020 | SPATIAL ANALYSIS IN GEOGRAPHY      |
| GEOG 4030 | COMPUTER MAPPING AND VISUALIZATION |
| GEOG 4050 | GEOGRAPHIC INFORMATION SYSTEMS I   |
| GEOG 4120 | URBAN GEOGRAPHY                    |
| GEOG 4660 | GEOGRAPHIC INFORMATION SYSTEMS II  |

Department of Marketing & Entrepreneurship – Entrepreneurship

|           |                                       |
|-----------|---------------------------------------|
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS           |
| ENTR 4730 | NEW VENTURE FORMATION                 |
| ENTR 4750 | SOCIAL ENTREPRENEURSHIP               |
| ENTR 4760 | SELLING IN AN ENTREPRENEURIAL CONTEXT |

# Criminology and Criminal Justice

## Mission

The School of Criminology and Criminal Justice offers high quality educational programming to support students in gaining the knowledge and skills necessary for a successful career in criminology and criminal justice or related social services fields. Students can participate in scholarly and applied research projects that involve collaborative partnerships with local and federal agencies. Students learn about emerging technologies as a means of improving and advancing criminology and criminal justice. We provide opportunities for students to connect with professionals in the classroom as well as through extracurricular events. Students are strongly encouraged to complete an internship to gain field experience prior to their graduation.

## Student Learning Outcomes

- Demonstrate mastery of core content areas in criminology and criminal justice.
- Locate, integrate and use information from varied sources to effectively communicate in writing and other mediums.
- Apply specialized knowledge through field-based learning experiences, civic and/or community engagement activities, and/or policy analysis.
- Explain diverse positions, including those representing different cultural, economic, and geographic interests in the context of criminology and criminal justice.

## Academic Advising

All CRCJ majors are strongly advised to schedule an appointment with our advising staff each semester. Advisors provide assistance with degree planning and course scheduling. They are also available to answer questions regarding major/minors, academic performance, and SCCJ policies or procedures. To contact an Omaha academic advisor, call 402.554.2610. To contact a Lincoln academic advisor, call 402.472.3677

## Transferring to Criminology and Criminal Justice

Students wishing to transfer from another institution or department within the University of Nebraska must have a 2.0 cumulative grade point average to be admitted into the criminology and criminal justice program. Contact the school for more details on the transfer policy.

## Degree Requirements

- A minimum of 30 of the last 36 semester credit hours must be earned by the student in residence in the University of Nebraska System. (Summer independent study courses are not considered in residence.)
- At least 21 hours of criminal justice must be taken at the University of Nebraska, on either the Omaha or Lincoln campus.
- A minimum of 33 credit hours must be earned in upper division (3000/4000-level) courses. At least 21 of these upper division hours must be taken in the School of Criminology and Criminal Justice courses, and 12 hours of 3000/4000 level courses are required in a concentration/minor (see course requirements section).
- A maximum of 12 credit hours of departmental independent study and internship courses may be applied toward the BCCJ degree. No more than 6 hours of CRCJ 3970 and CRCJ 3980 may apply and no more than 6 hours of CRCJ 4950 may apply.
- A maximum of 24 hours may be taken pass/no pass. Contact an advisor for more details.
- Credit for basic military and law enforcement training may be applied to the BCCJ degree. Contact an advisor for more details.
- Credit from an institution that is not regionally accredited cannot be applied to the BCCJ degree.

## Fast Track

The School of Criminology and Criminal Justice has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing any of the following:
  - BS in Criminology or Criminal Justice on either the UNO or UNL campuses

- Double-major at UNO with a BS in Criminology and Criminal Justice as either the primary or secondary major
- BMS with a concentration in Criminology and Criminal Justice
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.25.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program. Successful completion of the graduate courses will be a significant consideration during the evaluation of admission to the MA or MS in Criminology and Criminal Justice.
  - The admit term must be after the completion term of the undergraduate degree.

Special Note: Eligible undergraduate students may enroll in any 8000-level CRCJ course approved by the SCCJ program.

## Student Group Opportunities for Undergraduate and Graduate students

The School of Criminology and Criminal Justice offers several student organizations. Visit our Student Involvement website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/criminology-and-criminal-justice/undergraduate-programs/student-organization.php>) for more information.

## Contact

The UNO School of Criminology and Criminal Justice offers courses on the Omaha and Lincoln campuses. The Omaha office is located in the College of Public Affairs and Community Service Building (CPACS), Room 218. Our office can be reached by phone at 402.554.2610. The Lincoln office is located in Nebraska Hall, Room 310 and can be reached by phone at 402.472.3677. Events for both campus locations are regularly posted on our Website (<http://www.unomaha.edu/college-of-public-affairs-and-community-service/criminology-and-criminal-justice/>), Facebook page #unosccj, Twitter feed @unosccj, and Instagram @unosccj1.

## Degrees Offered

- Criminology & Criminal Justice (BCCJ), Bachelor of Science (p. 696)

\*\*Criminal justice courses are offered on the Omaha and Lincoln campuses of the University of Nebraska. The BCCJ degree can be earned in its entirety on the Lincoln campus; however, the degree is conferred by the University of Nebraska at Omaha.

## Minors Offered

- Criminology & Criminal Justice Minor (p. 701)
- Policing Minor (p. 701)
- V (p. 701)ictimology and Victim Services Minor (p. 701)

If you seek a career such as a police officer, DEA agent, probation officer or correctional counselor, a Bachelor of Science degree in Criminology and Criminal Justice is a key step towards turning that aspiration into reality. The CRCJ program at UNO provides undergraduates an excellent foundation in the theories of crime and the criminal justice response to crime while also introducing students to criminological research methods.

## Law Enforcement

- Alcohol, Tobacco, & Firearms (ATF)
- Drug Enforcement Agency (DEA)
- FBI Agent
- Federal Protective Service Officer
- IRS Agent
- Military Police
- Postal Inspector
- Secret Service Agent
- United States Marshal
- Nonprofit Management
- Animal Control
- Police Officer
- Arson Investigation
- Campus Police
- Deputy Sheriff
- Fish & Game Officer
- Highway Patrol

## Probation

- Diversion Program Coordinator
- Pretrial Services Officer
- Probation Officer (Juvenile/Adult)

## Corrections

- Corrections Counselor
- Corrections Officer
- Juvenile Corrections
- Parole Officer (Juvenile/Adult)
- Prerelease Counselor
- Recreation Leader
- Warden

## Courts/Law

- Bailiff
- Court Administrator
- Court Reporter
- Investigator for law offices
- Lawyer
- Legal Researcher
- Paralegal/Legal Assistant

## Homeland Security

- Customs Inspector
- Emergency Management
- Coordinator
- Federal Air Marshal
- FEMA Positions
- Intelligence Analyst
- Investigative Specialist

- Immigration Inspector
- Linguists
- Surveillance Specialist
- TSA Officer
- Border Patrol Agent

Private Security

- Security Director
- Loss Prevention Specialist
- Private Security Officer
- Credit Investigator
- Bank Fraud Investigator
- Legal Researcher

Juvenile Services

- Aftercare Counselor
- Child Protective Services Worker
- Detention Counselor
- Group Home Worker
- Rehabilitation Coordinator
- Runaway Counselor
- School Attendance Officer
- Youth Advocate

Victim Services

- Caseworker
- Child Support Agency Worker
- Crisis Center Coordinator
- Crisis Counselor
- Domestic Violence
- Advocate/Counselor
- Social Worker
- Victim/Witness Service Coordinator

Research

- Legislative Assistant
- Professor
- Research Analyst}

Criminology & Criminal Justice, Bachelor of Science

The Bachelor of Science in Criminology and Criminal Justice (BCCJ) degree requires the completion of 120 credit hours with a cumulative grade point average (GPA) of 2.0. Core major requirements are guided by a series of student learning outcomes and include criminology and criminal justice electives.

Student Learning Outcomes:

- Demonstrate mastery of core areas in criminology and criminal justice.
- Locate, integrate and use information from varied sources to effectively communicate in writing and other mediums.
- Apply specialized knowledge through field-based learning experiences, civic and/or community engagement activities, and/or policy analysis.
- Explain diverse positions, including those representing different cultural, economic, and geographic interests in the context of criminology and criminal justice.

| Code  | Title   | Credits |
|---|---|---------|
| GENERAL EDUCATION REQUIREMENTS - 34 Hours Required  |   |         |
| Minimum of "C-"required   |   |         |
| Fundamental Skills  |   | 15      |
| Writing- 6 hrs.   |   |         |
| ENGL 1150   | ENGLISH COMPOSITION I                                       |         |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                   |         |
| Oral Communication- 3 hr.   |   |         |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                       |         |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                    |         |
| Quantitative Literacy- 3 hrs.   |   |         |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING     |         |
| or MATH 1130  | QUANTITATIVE LITERACY                                       |         |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS         |         |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                |         |
| Data Literacy- 3 hrs.   |   |         |
| Select one from the following:  |   |         |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                             |         |
| STAT 1530   | ELEMENTARY STATISTICS                                       |         |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |         |
| Breadth of Knowledge  |   | 13      |
| Social Science- 3 hrs.  |   |         |
| Humanities- 3 hrs.  |   |         |
| Natural Science (must complete a lab)- 4 hrs.   |   |         |
| Arts- 3 hrs.  |   |         |
| Individual and Social Responsibility  |   | 6       |
| Cultural Knowledge- 3 hrs.  |   |         |
| Civic Knowledge and Engagement- 3 hrs.  |   |         |
| MAJOR REQUIREMENTS - 64 Hours Required  |   |         |
| **Course will satisfy UNO's General Education requirement   |   |         |
| ^Course requires pre-requisite(s)   |   |         |
| Minimum of "C-"required   |   |         |
| All of the Following  |   | 19      |
| CRCJ 1010   | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)                |         |
| CRCJ 2410   | CRIMINAL PROCEDURE (^)                                      |         |
| CRCJ 2510   | RESEARCH METHODS (^)  |         |
| CRCJ 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |         |
| CRCJ 3100   | WRITING FOR CRIMINAL JUSTICE                                |         |
| CRCJ 3350   | CRIMINOLOGY (^)   |         |
| CRCJ 4990   | APPLIED SENIOR ASSESSMENT (^)                               |         |
| *Other courses may apply. Please see your advisor for more details.   |   |         |
| Select 2 of the Following   |   | 6       |
| CRCJ 2030   | POLICE AND SOCIETY (^)                                      |         |

|  |   |           |
|--|---|-----------|
| CRCJ 2110  | CRIMINAL COURT SYSTEM (^)                             |           |
| CRCJ 2210  | SURVEY OF CORRECTIONS (^)                             |           |
| CRCJ 2220  | COMMUNITY-BASED CORRECTIONS (^)                       |           |
| <b>Select 2 of the Following</b>   |   | <b>6</b>  |
| CRCJ 3380  | POWER, PERCEPTION, AND PUNISHMENT (** ^)              |           |
| CRCJ 3390  | WOMEN, CRIME AND JUSTICE (** ^)                       |           |
| CRCJ 3410  | LAW AND THE BLACK COMMUNITY (** ^)                    |           |
| CRCJ 4750  | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^) |           |
| CRCJ 4760  | TERRORISM (** ^)                                      |           |
| <b>Select 1 of the Following</b>   |   | <b>3</b>  |
| CRCJ 3970  | INTERNSHIP IN CRIMINAL JUSTICE (^)                    |           |
| CRCJ 4710  | COMPARATIVE CRIMINAL JUSTICE SYSTEMS: ENGLAND (^)     |           |
| CRCJ 4960  | ISSUES IN CRIME AND JUSTICE (^)                       |           |
| <b>Select 4 upper-division (3000/4000 level) CRCJ Courses</b>  |   | <b>12</b> |
| <b>Minor Requirement</b>   |   | <b>18</b> |
| Explore secondary area(s) of interest early in your program and meet with a CRCJ academic advisor to select and declare a minor (a second major or degree may complete this requirement). Consult with an academic advisor to discuss specific guidelines for an area of study in ROTC to fulfill the minor requirement. |   |           |
| <b>ELECTIVES</b>   |   |           |
| Elective hours as needed to reach a total of 120 hours.  |   |           |

## Criminology & Criminal Justice, Bachelor of Science Optional Concentration

CRCJ majors have the option of completing a concentration in

- Policing (p. 698)
- Youth Justice (p. 699)
- Victimology and Victim Services (p. 700)

## Criminology & Criminal Justice, Bachelor of Science in Criminology & Criminal Justice Four Year Plan

|                                      |   |                |
|--------------------------------------|---|----------------|
| <b>Freshman</b>                      |   |                |
| <b>Fall</b>                          |   | <b>Credits</b> |
| CRCJ 1010                            | CRIME TO COURTROOM: THE JUSTICE JOURNEY   | 3              |
| ENGL 1150                            | ENGLISH COMPOSITION I <sup>1</sup>        | 3              |
| General Education Course or Elective |   | 4              |
| General Education Course or Elective |   | 3              |
| <b>Credits</b>                       |   | <b>13</b>      |
| <b>Spring</b>                        |   |                |
| CRCJ 2030                            | POLICE AND SOCIETY                        | 3              |
| or CRCJ 2110                         | or CRIMINAL COURT SYSTEM                  |                |
| or CRCJ 2210                         | or SURVEY OF CORRECTIONS                  |                |
| or CRCJ 2220                         | or COMMUNITY-BASED CORRECTIONS            |                |
| ENGL 1160                            | COLLEGE RESEARCH AND INFORMATION LITERACY | 3              |

|                                      |  |           |
|--------------------------------------|--|-----------|
| CMST 1110                            | PUBLIC SPEAKING FUNDS <sup>4</sup>                                   | 3         |
| General Education Course or Elective |  | 3         |
| MATH 1120                            | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING <sup>6</sup> | 3         |
| or MATH 1130                         | or QUANTITATIVE LITERACY   |           |
| <b>Credits</b>                       |  | <b>15</b> |

### Sophomore

|                                      |                                |           |
|--------------------------------------|--------------------------------|-----------|
| <b>Fall</b>                          |                                |           |
| CRCJ 2030                            | POLICE AND SOCIETY             | 3         |
| or CRCJ 2110                         | or CRIMINAL COURT SYSTEM       |           |
| or CRCJ 2210                         | or SURVEY OF CORRECTIONS       |           |
| or CRCJ 2220                         | or COMMUNITY-BASED CORRECTIONS |           |
| CRCJ 2510                            | RESEARCH METHODS               | 3         |
| General Education Course or Elective |                                | 3         |
| General Education Course or Elective |                                | 3         |
| General Education Course or Elective |                                | 3         |
| <b>Credits</b>                       |                                | <b>15</b> |

### Spring

|                                      |  |           |
|--------------------------------------|--|-----------|
| CRCJ 2410                            | CRIMINAL PROCEDURE   | 3         |
| CRCJ 3000                            | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR <sup>7</sup> | 3         |
| or STAT 1530                         | or ELEMENTARY STATISTICS   |           |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| General Education Course or Elective |  | 3         |
| <b>Credits</b>                       |  | <b>15</b> |

### Junior

|                                      |   |           |
|--------------------------------------|---|-----------|
| <b>Fall</b>                          |   |           |
| CRCJ 3350                            | CRIMINOLOGY                               | 3         |
| CRCJ 3100                            | WRITING FOR CRIMINAL JUSTICE <sup>8</sup> | 3         |
| CRCJ 3380                            | POWER, PERCEPTION, AND PUNISHMENT         | 3         |
| General Education Course or Elective |   | 3         |
| Concentration/Minor <sup>9</sup>     |   | 3         |
| Elective                             |   | 1         |
| <b>Credits</b>                       |   | <b>16</b> |

### Spring

|  |   |           |
|--|---|-----------|
| CRCJ 3390                                  | WOMEN, CRIME AND JUSTICE                          | 3         |
| or CRCJ 3410                               | or LAW AND THE BLACK COMMUNITY                    |           |
| or CRCJ 4750                               | or INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE |           |
| or CRCJ 4760                               | or TERRORISM                                      |           |
| CRCJ upper-level (3000/4000) <sup>10</sup> |   | 3         |
| Concentration/Minor <sup>9</sup>           |   | 3         |
| Concentration/Minor <sup>9</sup>           |   | 3         |
| Elective                                   |   | 3         |
| <b>Credits</b>                             |   | <b>15</b> |

### Senior

|  |  |           |
|--|--|-----------|
| <b>Fall</b>                                |  |           |
| CRCJ upper-level (3000/4000) <sup>10</sup> |  | 3         |
| CRCJ upper-level (3000/4000) <sup>10</sup> |  | 3         |
| Concentration/Minor <sup>9</sup>           |  | 3         |
| Concentration/Minor <sup>9</sup>           |  | 3         |
| Elective                                   |  | 3         |
| <b>Credits</b>                             |  | <b>15</b> |

### Spring

|           |                           |   |
|-----------|---------------------------|---|
| CRCJ 4990 | APPLIED SENIOR ASSESSMENT | 1 |
|-----------|---------------------------|---|



|  |   |            |
|--|---|------------|
| CRCJ 3970<br>or CRCJ 4710<br>or CRCJ 4960  | INTERNSHIP IN CRIMINAL JUSTICE<br>or COMPARATIVE CRIMINAL JUSTICE<br>SYSTEMS: ENGLAND<br>or ISSUES IN CRIME AND JUSTICE | 3          |
| CRCJ upper-level (3000/4000) <sup>10</sup> |   | 3          |
| Elective                                   |   | 3          |
| Elective                                   |   | 3          |
| Concentration/Minor <sup>9</sup>           |   | 3          |
| <b>Credits</b>                             |   | <b>16</b>  |
| <b>Total Credits</b>                       |   | <b>120</b> |

<sup>1</sup> A score of "ENGL 5" on the English Placement Exam is needed in order to enroll in ENGL 1150

<sup>2</sup> Natural & Physical Science courses must be selected from this list: <https://www.unomaha.edu/general-education/approved-courses/natural-and-physical-sciences.php>

<sup>3</sup> Social Science courses must be selected from this list: <https://www.unomaha.edu/general-education/approved-courses/social-sciences.php>

<sup>4</sup> CMST 1110 or CMST 2120 may be taken towards the Public Speaking Requirement

<sup>5</sup> Humanities & Fine Arts courses must be selected from this list: <https://www.unomaha.edu/general-education/approved-courses/humanities-and-fine-arts.php>

<sup>6</sup> Math ACT 0-18 must take MATH 1120 or MATH 1130, MATH ACT 19+ may take an elective

<sup>7</sup> Statistics requires Math ACT 19+ or completion of MATH 1120 or MATH 1130

<sup>8</sup> ENGL 2400, ENGL 3980 or MKT 3200 may be substituted for CRCJ 3100

<sup>9</sup> An area of concentration or a minor is required for all CRCJ majors. The area of concentration must contain at least 18 credit hours chosen in consultation with the CRCJ academic advisor

<sup>10</sup> Select any courses in the 3000 or 4000 levels of CRCJ for CRCJ upper level

<sup>11</sup> CRCJ 4990 must be taken during graduating semester

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

## Policing Concentration Criminology & Criminal Justice, Bachelor of Science in Criminology & Criminal Justice - Policing Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 61 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| Minimum of "C-" required  |   |           |
| <b>All of the following:</b>  |   | <b>19</b> |
| CRCJ 1010   | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)  |           |
| CRCJ 2030   | POLICE AND SOCIETY (^)  |           |
| CRCJ 2410   | CRIMINAL PROCEDURE (^)  |           |
| CRCJ 2510   | RESEARCH METHODS (^)  |           |
| CRCJ 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^)   |           |
| CRCJ 3350   | CRIMINOLOGY (^)   |           |
| CRCJ 4990   | APPLIED SENIOR ASSESSMENT (^)   |           |

\*Other courses may apply. Please see you advisor for more details.

**Select 1 of the following: 3**

|           |                                 |
|-----------|---------------------------------|
| CRCJ 2110 | CRIMINAL COURT SYSTEM (^)       |
| CRCJ 2210 | SURVEY OF CORRECTIONS (^)       |
| CRCJ 2220 | COMMUNITY-BASED CORRECTIONS (^) |

**Select 2 of the following: 6**

|           |   |
|-----------|---|
| CRCJ 3380 | POWER, PERCEPTION, AND PUNISHMENT (** ^)              |
| CRCJ 3390 | WOMEN, CRIME AND JUSTICE (** ^)                       |
| CRCJ 3410 | LAW AND THE BLACK COMMUNITY (** ^)                    |
| CRCJ 4750 | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^) |
| CRCJ 4760 | TERRORISM (** ^)                                      |

**Select 1 of the following: 3**

|           |   |
|-----------|---|
| CRCJ 3970 | INTERNSHIP IN CRIMINAL JUSTICE (^)                |
| CRCJ 4960 | ISSUES IN CRIME AND JUSTICE (^)                   |
| CRCJ 4710 | COMPARATIVE CRIMINAL JUSTICE SYSTEMS: ENGLAND (^) |

**Concentration Requirements:**

**Select 4 from the following: 12**

|           |   |
|-----------|---|
| CRCJ 3310 | CRIMINAL LAW (^)                                  |
| CRCJ 3380 | POWER, PERCEPTION, AND PUNISHMENT (** ^)          |
| CRCJ 3970 | INTERNSHIP IN CRIMINAL JUSTICE (^)                |
| CRCJ 4000 | MENTAL HEALTH AND THE CRIMINAL JUSTICE SYSTEM (^) |
| CRCJ 4410 | VICTIMOLOGY (^)                                   |
| CRCJ 4510 | VIOLENCE (^)                                      |
| CRCJ 4520 | DRUGS AND CRIME (^)                               |
| CRCJ 4540 | CRIMINAL INVESTIGATIONS (^)                       |
| CRCJ 4550 | GANGS AND GANG CONTROL (^)                        |
| CRCJ 4560 | HOMICIDE INVESTIGATIONS (^)                       |

**Minor or Area of Concentration: 18**

Students select a minor or area of concentration in consultation with their academic advisor.

**ELECTIVES**

Elective hours as needed to reach a total of 120 hours.

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 61 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of "C-"required

**All of the following: 19**

|           |   |
|-----------|---|
| CRCJ 1010 | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)                |
| CRCJ 2030 | POLICE AND SOCIETY (^)                                      |
| CRCJ 2410 | CRIMINAL PROCEDURE (^)                                      |
| CRCJ 2510 | RESEARCH METHODS (^)  |
| CRCJ 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| CRCJ 3350 | CRIMINOLOGY (^)   |
| CRCJ 4990 | APPLIED SENIOR ASSESSMENT (^)                               |

\*Other courses may apply. Please see you advisor for more details.

**Select 1 of the following: 3**

|           |                                 |
|-----------|---------------------------------|
| CRCJ 2110 | CRIMINAL COURT SYSTEM (^)       |
| CRCJ 2210 | SURVEY OF CORRECTIONS (^)       |
| CRCJ 2220 | COMMUNITY-BASED CORRECTIONS (^) |

**Select 2 of the following: 6**

|           |   |
|-----------|---|
| CRCJ 3380 | POWER, PERCEPTION, AND PUNISHMENT (** ^)              |
| CRCJ 3390 | WOMEN, CRIME AND JUSTICE (** ^)                       |
| CRCJ 3410 | LAW AND THE BLACK COMMUNITY (** ^)                    |
| CRCJ 4750 | INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (** ^) |
| CRCJ 4760 | TERRORISM (** ^)                                      |

**Select 1 of the following: 3**

|           |                                    |
|-----------|------------------------------------|
| CRCJ 3970 | INTERNSHIP IN CRIMINAL JUSTICE (^) |
| CRCJ 4960 | ISSUES IN CRIME AND JUSTICE (^)    |

## Youth Justice Concentration Criminology & Criminal Justice, Bachelor of Science in Criminology & Criminal Justice - Youth Justice Concentration Requirements

| Code  | Title                                     | Credits |
|---|---|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |         |
| Minimum of "C-"required                                   |   |         |
| <b>Fundamental Skills 15</b>                              |   |         |
| <b>Writing – 6 hrs.</b>                                   |   |         |
| ENGL 1150   | ENGLISH COMPOSITION I                     |         |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |         |

|   |   |           |
|---|---|-----------|
| CRCJ 4710   | COMPARATIVE CRIMINAL JUSTICE SYSTEMS: ENGLAND (^) |           |
| <b>Concentration Requirements</b>   |   | <b>18</b> |
| Youth Justice Concentration comprised of existing courses (5-6 courses)   |   |           |
| <b>All of the following:</b>  |   |           |
| CRCJ 1010   | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)      |           |
| CRCJ 3370   | JUVENILE DELINQUENCY AND JUVENILE JUSTICE (^)     |           |
| CRCJ 4420   | CHILD ABUSE AND NEGLECT (^)                       |           |
| CRCJ 3970   | INTERNSHIP IN CRIMINAL JUSTICE (^)                |           |
| or CRCJ 4800  | SPECIAL TOPICS                                    |           |
| *If CRCJ 4800 is selected, three credits will count toward required credits, three credits toward elective credits. |   |           |
| <b>Select 1 or 2 of the following:</b>  |   |           |
| CRCJ 4000   | MENTAL HEALTH AND THE CRIMINAL JUSTICE SYSTEM (^) |           |
| CRCJ 4430   | HUMAN TRAFFICKING (^ *)                           |           |
| CRCJ 4440   | VICTIMS' RIGHTS AND SERVICES (^ *)                |           |
| CRCJ 4450   | SEXUAL VIOLENCE (^ *)                             |           |
| CRCJ 4520   | DRUGS AND CRIME (^)                               |           |
| CRCJ 4550   | GANGS AND GANG CONTROL (^ *)                      |           |
| <b>Minor or Area of Concentration:</b>  |   | <b>12</b> |
| Students select a minor or area of concentration in consultation with their academic advisor.                       |   |           |
| <b>ELECTIVES</b>  |   |           |
| Elective hours as needed to reach a total of 120 hours.   |   |           |

## Victimology and Victim Services Concentration

### Criminology & Criminal Justice, Bachelor of Science in Criminology & Criminal Justice - Victimology and Victim Services Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS - 61-64 Hours Required

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of "C-"required

#### All of the Following 16

CRCJ 1010 CRIME TO COURTROOM: THE JUSTICE JOURNEY (\*\*)

CRCJ 2410 CRIMINAL PROCEDURE (^)

CRCJ 2510 RESEARCH METHODS (^)

CRCJ 3000 APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^)

CRCJ 3350 CRIMINOLOGY (^)

CRCJ 4990 APPLIED SENIOR ASSESSMENT (^)

\*Other courses may apply. Please see your advisor for more details.

#### Select 2 of the Following 6

CRCJ 2030 POLICE AND SOCIETY (^)

CRCJ 2110 CRIMINAL COURT SYSTEM (^)

CRCJ 2210 SURVEY OF CORRECTIONS (^)

CRCJ 2220 COMMUNITY-BASED CORRECTIONS (^)

#### Select 2 of the Following 6

CRCJ 3380 POWER, PERCEPTION, AND PUNISHMENT (\*\* ^)

CRCJ 3390 WOMEN, CRIME AND JUSTICE (\*\* ^)

CRCJ 3410 LAW AND THE BLACK COMMUNITY (\*\* ^)

CRCJ 4750 INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (\*\* ^)

CRCJ 4760 TERRORISM (\*\* ^)

#### Select 1 of the Following 3

CRCJ 3970 INTERNSHIP IN CRIMINAL JUSTICE (^)

CRCJ 4710 COMPARATIVE CRIMINAL JUSTICE SYSTEMS: ENGLAND (^)

CRCJ 4960 ISSUES IN CRIME AND JUSTICE (^)

#### Concentration Requirements

#### All of the following: 9

CRCJ 4410 VICTIMOLOGY (^)

CRCJ 4440 VICTIMS' RIGHTS AND SERVICES (^)

CRCJ 4000 MENTAL HEALTH AND THE CRIMINAL JUSTICE SYSTEM (^)

#### Select 2 of the following (Limit non-SCCJ courses to 3 hours) 6

CRCJ 3390 WOMEN, CRIME AND JUSTICE (\*\* ^)

|           |                                  |
|-----------|----------------------------------|
| CRCJ 4400 | DOMESTIC VIOLENCE (^)            |
| CRCJ 4420 | CHILD ABUSE AND NEGLECT (^)      |
| CRCJ 4510 | VIOLENCE (^)                     |
| CRCJ 4430 | HUMAN TRAFFICKING (^)            |
| CRCJ 4450 | SEXUAL VIOLENCE (^)              |
| SOWK 4830 | CRISIS INTERVENTION (^)          |
| SOWK 4620 | TRAUMA AND RESILIENCE (^)        |
| SOWK 4640 | PERMANENCE FOR CHILDREN (^)      |
| SOWK 4650 | SOCIAL WORK IN MENTAL HEALTH (^) |

**Minor or Area of Concentration** **18**

Students select a minor or area of concentration in consultation with their academic advisor

#### ELECTIVES

Elective hours as needed to reach a total of 120 hours.

## Criminology & Criminal Justice Minor

### Criminology & Criminal Justice Minor Requirements

The requirements to earn a minor in criminology and criminal justice will consist of a minimum of 18 credit hours to include:

| Code   | Title                                   | Credits  |
|--|---|----------|
| <b>All of the following</b>  |   | <b>3</b> |
| CRCJ 1010  | CRIME TO COURTROOM: THE JUSTICE JOURNEY |          |
| <b>Select a minimum of two of the following</b>  |   | <b>6</b> |
| CRCJ 2030  | POLICE AND SOCIETY                      |          |
| CRCJ 2110  | CRIMINAL COURT SYSTEM                   |          |
| CRCJ 2210  | SURVEY OF CORRECTIONS                   |          |
| CRCJ 2220  | COMMUNITY-BASED CORRECTIONS             |          |
| <b>Select a minimum of 9 credit hours of upper level (3000/4000) criminology and criminal justice courses (excluding CRCJ 3000).</b> |   | <b>9</b> |

An overall "C" average in courses applied to the minor is required and all courses applied to the minor must be taken for letter grade (not CR/NC). In addition, all nine credit hours of upper division course work must be taken in residence at the University of Nebraska.

## Policing Minor

### Policing Minor Requirements

| Code                                 | Title   | Credits   |
|--------------------------------------|---|-----------|
| <b>18 Hours Required</b>             |   |           |
| <b>All of the following</b>          |   | <b>6</b>  |
| CRCJ 1010                            | CRIME TO COURTROOM: THE JUSTICE JOURNEY       |           |
| CRCJ 2030                            | POLICE AND SOCIETY                            |           |
| <b>Select four of the following:</b> |   | <b>12</b> |
| CRCJ 3310                            | CRIMINAL LAW                                  |           |
| CRCJ 3380                            | POWER, PERCEPTION, AND PUNISHMENT             |           |
| CRCJ 3970                            | INTERNSHIP IN CRIMINAL JUSTICE                |           |
| CRCJ 4000                            | MENTAL HEALTH AND THE CRIMINAL JUSTICE SYSTEM |           |
| CRCJ 4410                            | VICTIMOLOGY                                   |           |

|           |                         |
|-----------|-------------------------|
| CRCJ 4510 | VIOLENCE                |
| CRCJ 4520 | DRUGS AND CRIME         |
| CRCJ 4540 | CRIMINAL INVESTIGATIONS |
| CRCJ 4550 | GANGS AND GANG CONTROL  |
| CRCJ 4560 | HOMICIDE INVESTIGATIONS |

## Victimology and Victim Services Minor

The minor in Victimology and Victim Services is designed for students with an interest in victims of crime and their experiences in the criminal justice system. Students will explore the types and theories of victimization, as well as interventions and support services.

The requirements to earn a minor in Victimology and Victim Services will consist of a minimum of 15 credit hours to include:

### Victimology and Victim Services Minor Requirements

| Code  | Title   | Credits  |
|---|---|----------|
| <b>15 Hours Required</b>  |   |          |
| <b>All of the following:</b>  |   | <b>9</b> |
| CRCJ 4410   | VICTIMOLOGY                                   |          |
| CRCJ 4440   | VICTIMS' RIGHTS AND SERVICES                  |          |
| CRCJ 4000   | MENTAL HEALTH AND THE CRIMINAL JUSTICE SYSTEM |          |
| <b>Victimology courses (select 2) - (Limit non-SCCJ courses to 3 hours)</b> |   | <b>6</b> |
| CRCJ 3390   | WOMEN, CRIME AND JUSTICE                      |          |
| CRCJ 4400   | DOMESTIC VIOLENCE                             |          |
| CRCJ 4420   | CHILD ABUSE AND NEGLECT                       |          |
| CRCJ 4510   | VIOLENCE                                      |          |
| CRCJ 4430   | HUMAN TRAFFICKING                             |          |
| CRCJ 4450   | SEXUAL VIOLENCE                               |          |
| SOWK 4830   | CRISIS INTERVENTION                           |          |
| SOWK 4620   | TRAUMA AND RESILIENCE                         |          |
| SOWK 4640   | PERMANENCE FOR CHILDREN                       |          |
| SOWK 4650   | SOCIAL WORK IN MENTAL HEALTH                  |          |

## Division of Continuing Studies

For 75 years, the Division of Continuing Studies (DCS) has been dedicated exclusively to the needs of adult and contemporary learners by *meeting students where they are*. Elevating the adult student voice across the institution, DCS serves as a key resource for adult learners, providing guidance and support tailored to their individual needs. Although the higher education landscape has changed, our core beliefs and guiding principles have not. Since our beginning, we've worked to raise awareness of the characteristics, circumstances, and needs of adult learners, recognize the value that our diverse, multigenerational students bring to UNO, and provide opportunities for degree attainment that honors their unique backgrounds, experiences, and aspirations.

DCS was founded with an entrepreneurial spirit and has sustained a culture of resilience, adaptability, and innovation. The nontraditional design of our unit and degree program is what has allowed us, and in turn, our students, to thrive. Our expertise is in serving the needs of adult and contemporary learners. Our commitment is to helping students achieve their academic goals by providing flexible and accessible pathways to degree completion

while honoring the unique experiences they bring. We are dedicated to supporting each learner's journey, ensuring they have the guidance and resources needed to succeed.

DCS takes a holistic approach to student success, working to support, empower, and advocate for adult and contemporary learners. Through an assigned advising model, we build relationships and provide personalized guidance from pre-admission exploration through graduation. Our students take varied pathways and are provided individualized attention to ensure a smooth transition through their university experience.

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## Our Academic Programs

The Division of Continuing Studies offers two distinct degree programs - the Bachelor of Multidisciplinary Studies and the Bachelor of Science in Applied Leadership Studies. Both programs are available online, on-campus, or through a combination of online and on-campus classes.

### Bachelor of Multidisciplinary Studies

The Bachelor of Multidisciplinary Studies (BMS) degree is intentionally designed to offer flexibility, allowing adult and contemporary learners to align their education with their interests and future aspirations. Students can choose from structured concentrations or create an individualized plan of study tailored to their goals. The BMS, awarded to over 27,000 students since 1950, is one of the nation's oldest multidisciplinary degrees and is part of UNO's longstanding, rich tradition of serving military and veteran students.

### Bachelor of Science in Applied Leadership Studies

The Bachelor of Science in Applied Leadership Studies (BSLS) degree explores leadership as a discipline and a practice, developing the leader within while building the knowledge needed to successfully take on leadership roles in a variety of contexts. The Bachelor of Science in Applied Leadership Studies degree cultivates durable skills responsive to the modern workforce and complexities of contemporary life. Designed for adult learners, the BSLS degree emphasizes real-world application, allowing students to integrate their professional and life experiences into their leadership development.

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## Program Goals

DCS provides educational experiences, both curricular and co-curricular, for students to develop and enhance the skills, abilities, and perspectives to be self-directed, lifelong learners. DCS supports holistic growth and development; shaping the contribution our students and graduates make to their lives, their profession, and to society.

**The following Program Goals & Graduate Expectations guide our programs and services:**

- To ACT Responsibly
- To COMMUNICATE Effectively
- To CONNECT Meaningfully
- To LEARN Continuously
- To THINK Independently

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## Student Civility Statement

Student learning is a priority in the Division of Continuing Studies. We value the inherent worth and dignity of every person, and work to foster a community of mutual respect. To achieve these ideals, all DCS students are

expected, while in the role of student or representative of the University, to exhibit, and practice civil behaviors that exemplify:

- Respecting faculty, staff, fellow students, guests, and all University property, policies, rules, and regulations.
- Taking responsibility for one's choices and actions.
- Accepting the consequences of one's inappropriate choices and actions.
- Communicating in a professional and courteous manner in all forms, and all times, whether verbal, non-verbal, or written.

Behavior that is contradictory to the above and to the standards outlined in the UNO Student Code of Conduct (p. 20) (<http://catalog.unomaha.edu/undergraduate/student-code-conduct/>) will be taken seriously and appropriately reported.

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## Transfer Credit & Credit for Prior Learning

The Division of Continuing Studies believes in maximizing prior learning so students can finish what they have started without starting over. Our generous transfer credit and credit for prior learning practices value prior coursework, training, and experiences. DCS recognizes that not all college-level learning happens in the classroom, so there are established processes for awarding curriculum credit for college-level learning obtained through other institutions and prior learning experiences outside of traditional academic study to seamlessly transition credit towards our degree programs.

### Standards for Assessing Learning

Since 1974 the Council for Adult and Experiential Learning (CAEL) has worked with colleges and universities in both the public and private sectors to support the learning goals of adults. CAEL has created standards for assessing CPL.

**The Division of Continuing Studies has adopted CAEL's ten standards for assessing learning:** <https://www.cael.org/ten-standards-for-assessing-learning> (<https://www.cael.org/ten-standards-for-assessing-learning/>)

1. Credit or competencies are awarded only for evidence of learning, not for experience or time spent.
2. Assessment is integral to learning because it leads to and enables future learning.
3. Assessment is based on criteria for outcomes that are clearly articulated and shared among constituencies.
4. The determination of credit awards and competence levels are made by appropriate subject matter and credentialing experts.
5. Assessment advances the broader purpose of equity and access for diverse individuals and groups.
6. Institutions proactively provide guidance and support for learners' full engagement in the assessment process.
7. Assessment policies and procedures are the result of inclusive deliberation and are shared with all constituencies.
8. Fees charged for assessment are based on the services performed in the process rather than the credit awarded.
9. All practitioners involved in the assessment process pursue and receive adequate training and continuing



professional development for the functions they perform.

10. Assessment programs are regularly monitored, evaluated and revised to respond to institutional and learner needs.

## Credit for Prior Learning

DCS determines how Credit for Prior Learning (CPL) credits are applied toward graduation requirements in accordance with the policies of the institution, college, and program. Duplicate credit for the same learning is not awarded. For example, students who may have previously taken and passed an English Composition I course at two prior institutions will only get credit for the most recent course taken and passed.

Learning experiences vary, and as such, academic credit for prior learning is highly individualized and must be determined on a case-by-case basis. Many adult and contemporary learners apply some method of CPL towards their BMS or BSLS degree. Our professional academic advisors work closely with you to determine how the credits may apply to your program of study and your future goals.

All modalities outlined are currently available only to degree-seeking students enrolled in a DCS academic program. Students enrolled in UNO programs outside of DCS should adhere to the policies established by the respective program and college. Due to the nature of our student population, DCS provides the broadest and most flexible CPL policy at UNO. As such, students who change to a non-DCS program at UNO may find that CPL credits do not apply to their new program in the same manner. Students are encouraged to work closely with a DCS academic advisor to determine if CPL is an option.

## Transfer Credit

The Division of Continuing Studies offers a generous transfer policy, accepting credits from most colleges and universities, including regionally accredited institutions, nationally accredited institutions, and non-U.S. tertiary institutions. Students may apply a maximum of 64 credit hours from two-year institutions towards their BMS or BSLS degree.

### Transfer Credits from Postsecondary Institutions (Colleges and Universities)

In order to determine if coursework taken at a postsecondary institution other than UNO is eligible for transfer and how it applies, DCS relies on the recommendations of the Joint Statement on the Transfer and Award of Credit (AACRAO, CHEA, & ACE, 2021 (<https://www.acenet.edu/Documents/Joint-Statement-on-the-Transfer-and-Award-of-Credit.pdf>)). The three considerations that determine the transferability of credit includes:

1. The educational quality of the institution.
2. The comparability of nature, content, and level of the course that is to be transferred to UNO and applied to the academic program.
3. The appropriateness and applicability of the credit in relation to the plan of study.

### Institutional Accreditation

Accreditation serves as the basic indicator that an institution meets certain minimum standards in order to give students and policymakers confidence in the effectiveness of academic quality. As such, DCS recognizes the value of accreditation and has outlined a process for identifying postsecondary credit that may transfer to our programs.

### Regionally Accredited Institutions

Coursework of comparable content and scope to the UNO curriculum will generally be transferred if it was completed at colleges and universities accredited by one of the six regional accrediting agencies

recognized by the Council for Higher Education Accreditation (CHEA) and the U.S. Department of Education (USDE). Courses must be successfully completed with a grade of C- or better.

#### The six regional accrediting agencies that operate in the U.S. are:

- Middle States Commission on Higher Education
- New England Association of Schools and Colleges
- North Central Association of Colleges and Schools
- Northwest Commission on Colleges and Universities
- Southern Association of Colleges and Schools
- Western Association of Schools and Colleges

## Nationally Accredited Institutions

DCS recognizes that institutions may offer programs that are recognized by programmatic or specialized accrediting agencies. Students who have successfully completed coursework at colleges and universities that do not hold regional accreditation may request evaluation of credit for applicability of transfer. As a rule, DCS requires that the institution and/or program be recognized by an accrediting body that is recognized by both CHEA and USDE during the time of attendance.

## Non-U.S. Tertiary Institutions

UNO recognizes the value of postsecondary coursework completed outside of the U.S. higher education system and provides pathways for international credits to be applied toward degree programs. Due to the diversity of languages, curriculum, structure and grading schema of non-U.S. colleges and universities, UNO requires a certified translation to accompany transcripts not issued in English by World Education Services, [www.wes.org](http://www.wes.org) (<http://www.wes.org/>), or Educational Credential Evaluators, [www.ece.org](http://www.ece.org) (<http://www.ece.org/>). The translation should be literal and not interpretive. In many cases, international credits will be converted to the U.S. semester system. A DCS academic advisor can provide a list of organizations that provide transcript translation services.

## Coursework Not Accepted for Transfer Credit

The following coursework will not be accepted for transfer credit and will not count toward a degree at UNO:

- Courses in which the grade earned is below a C- on 4.0 grading scale (except from the NU system).
- Courses identified by UNO as remedial, such as remedial English, Mathematics and developmental reading.
- Portfolio-based experiential credits awarded by another institution.

## Standardized Exams

Standardized examinations are available in disciplines from physics to studio art, from computer science to foreign language. Typically, DCS awards credit for introductory-level courses; although, some students use examinations to demonstrate advanced knowledge. Students may apply a maximum of 30 hours of exam credit towards their BMS or BSLS degree.

## Eligible Exams

Credit may be earned by successfully completing eligible examinations:

- Advanced Placement Exams (AP): <https://apcentral.collegeboard.com> (<https://apcentral.collegeboard.com/>)
- International Baccalaureate Exams (IB): <https://ibo.org> (<https://ibo.org/>)



- College Level Exam Program (CLEP): <https://clep.collegeboard.org/>
- DANTES Subject Standardized Test (DSST) (formerly DANTES): <https://www.getcollegecredit.com/>

*Note: AP and IB examinations are normally completed as part of a high school curriculum.*

### Course and Credit Equivalencies

Course and credit equivalencies for AP, IB, CLEP, and DSST examinations are regularly evaluated and updated. Be advised that examinations accepted for credit, the minimum score required, and hours/courses awarded are subject to change by UNO and DCS at any time without notice. Course and credit equivalencies for AP, IB, CLEP, and DSST are posted on the UNO website (<https://www.unomaha.edu/registrar/students/before-you-enroll/transfer-credit/clep-credit.php>). Courses not listed on the articulation guide may be eligible for transfer and fulfillment of general elective requirements.

### Evaluated Non-College Programs

Adult and contemporary learners can demonstrate college-level knowledge and competencies gained from courses, examinations and certifications offered by employers, federal agencies, professional associations, apprenticeship programs, online education providers and other organizations. Courses and training are rigorously reviewed by a team of faculty experts who make recommendations for course-level and credit-hour equivalencies.

### Eligible Credit Recommendations

Credit may be awarded for learning assessed by the following organizations:

- **American Council on Education (ACE)**  
ACE's College Credit Recommendation Service (CREDIT) has reviewed over 35,000 courses, exams, and learning experiences for academic credits since it was founded in 1974. For more information, visit <http://www.acenet.edu/nationalguide> (<http://www.acenet.edu/nationalguide/>).
- **National College Credit Recommendation Service (NCCRS)**  
Formerly known as National PONS, the NCCRS has been evaluating training and education programs for college credit equivalencies since 1973. For more information, visit <http://www.nationalccrs.org/course-credit-directory> (<http://www.nationalccrs.org/course-credit-directory/>).
- **DCS Faculty Academic Policy Committee (FAPC)**  
The FAPC provides academic guidance and oversight for DCS academic programs. In conjunction with UNO faculty, the committee is responsible for reviewing and approving select nontraditional college credit recommendations that may be applied to the BMS or BSALS programs. The committee does not evaluate individual credit requests on an ad hoc basis.

### Military Training and Experience

DCS is dedicated to bridging military service with undergraduate curriculum. As part of this commitment, we award academic credit for military training and learning experiences from all branches of the U.S. Armed Forces. As with all methods of CPL, credit awards are at the full discretion of DCS.

- **Army, Coast Guard, Marine Corps and Navy**  
In 2013, the Army, Coast Guard, Marine Corps and Navy transitioned to the Joint-Services Transcript (JST)

for active-duty, reserve and veteran members. JST replaced the following systems: AARTS (Army), SMART (Navy and Marines), CGI (Coast Guard) and Form DD-295 (all branches). JST CPL credits are posted as other institutional credits, rather than transfer credits. For instructions on how to order a JST, visit <https://jst.doded.mil/faq.html>.

- **Air Force**

Air Force training is certified by the Community College of the Air Force (CCAF). CCAF is regionally accredited by the Southern Association of Colleges and Schools through Air University, therefore, CCAF courses are considered transfer credits at UNO. For instructions on how to order CCAF transcripts, visit <https://www.airuniversity.af.edu/Barnes/CCAF/Display/Article/803247/community-college-of-the-air-force-transcripts/>.

- **Defense Language Institute (DLI)**

Operated by the U.S. Department of Defense (DoD), DLI provides linguistic and cultural instruction to members of the DoD and federal agencies. DLI courses are considered transfer credits at UNO as it is regionally accredited by the Western Association of Schools and Colleges. For instructions on how to order an official transcript, visit [www.dlilfc.edu](http://www.dlilfc.edu) (<http://www.dlilfc.edu/>).

## DCS Policies

### Academic Amnesty

Academic amnesty gives students the opportunity to rebuild their University of Nebraska system cumulative grade point average (GPA). Students must have been out of the Nebraska system for at least one year to be eligible for academic amnesty and only 'F' and 'D' grades earned within the University of Nebraska system (UNO, UNL, UNK, UNMC) prior to the year out will be included in the amnesty. All UNO colleges will accept the results of the DCS amnesty. Consult a DCS academic advisor to learn more.

### Credit/No Credit (CR/NC) Grades

DCS students may elect to receive a grade of Credit (CR) or No Credit (NC) in lieu of a letter grade. A student earns a CR with a C- grade or higher. Please see University policy regarding eligibility (<https://catalog.unomaha.edu/undergraduate/grades/#text>). Students planning to apply to graduate of professional programs should consult with those programs on their acceptance of non-graded credit.

- **Bachelor of Multidisciplinary Studies:** Students may apply up to 24 credit hours on a Credit/No Credit basis, with a maximum of six credit hours allowed in the Multidisciplinary Core (Block 1, 2, 3).
- **Bachelor of Science in Applied Leadership Studies:** Students may apply up to 24 credit hours on a Credit/No Credit basis, with a maximum of six credit hours allowed in the Leadership Competencies or Leadership Context Blocks.

### No Activity Drop Policy

DCS offers a variety of courses online each semester to support our learners' needs. This policy pertains to student activity in registered online courses offered through our division.

Students are considered to have "no activity" if they do not log in to Canvas and initiate active participation in an "academically related activity" during the designated drop period for the course as outlined below:

- **Non-Accelerated Courses:** At the end of the fifth day of the course.
- **6-Week Accelerated Courses:** At the end of the second day of the course.

Merely logging in to the Canvas course does not constitute engaging in an academically related activity. Academic related activities in an online course include but are not limited to:

- Student submission of an academic assignment or exam.
- Documented student participation in an interactive tutorial or computer-assisted instruction.
- A posting by the student showing participation in an online study group assigned by the institution.
- A posting by the student in a discussion forum showing participation in an online discussion about academic matters.
- An email from the student or other documentation showing student-initiated contact with a faculty member asking a question about the academic subject studied in the course.

If a student fails to meet these requirements, they are considered as having “no activity” and will be notified of administrative removal from the course. If students are Financial Aid recipients and dropped for having “no activity” they will have their aid adjusted to reflect the actual number of credits for the courses they are attending. Only students dropped in error will be enrolled back in the class. If the situation arises and a student is reenrolled in the course, they must contact the Financial Aid Office requesting that aid be reevaluated for reinstatement. If reinstated, aid will again be adjusted based on enrollment status and eligibility. Students who wish to drop a class during the designated drop period should still follow the University policy to change their enrollment. A No Activity drop is different from a withdrawal. Please review the Withdrawal Policy for more details.

## Student Groups

Alpha Sigma Lambda Honor Society

## Campus Locations & Services

### UNO Campus Location

DCS is on the second floor of the College of Public Affairs and Community Service building (CPACS 207) on UNO's Dodge Street campus. This location serves as the headquarters of our operations. To provide high touch services to our students and to accommodate their busy lives, students are able to meet with staff over the phone, online, and in person. In addition to standard weekday business hours (8-5), professional advisors offer early morning and evening appointments to accommodate varying schedules.

- Main Campus | CPACS 207 | 402.554.2370 | [unodcs@unomaha.edu](mailto:unodcs@unomaha.edu)

### Offutt Air Force Base

A branch of DCS is located at Offutt AFB in Building C, Room 222. UNO/DCS at Offutt, in partnership with the Offutt AFB Education Office, offers a wide array of services to increase educational opportunities for active-duty military, as well as the greater Offutt AFB community. DCS also oversees the testing center at Offutt, offering CLEP, DSST, and Pearson Vue proctoring services. The testing center is located in Building C, Room 204.

- Offutt Air Force Base | Building C | Room 222 | 402.554.6305 | [unooffutt@unomaha.edu](mailto:unooffutt@unomaha.edu)

## Admission Requirements

The minimum age for admission to the Division of Continuing Studies is normally 21. However, students under the age of 21 pursuing an undergraduate degree who do not meet the definition of a “traditional” college student may also be eligible for admission to DCS academic degree programs. Examples may include military-affiliated students; students who are on the path to an alternate UNO academic degree/department/college; and students pursuing an area of study not represented by another UNO degree program.

### In order to be considered for admission to DCS, applicants must submit the following:

- Completed UNO application for admission.
- Official high school transcript or high school equivalency examination (GED). This requirement is waived for transfer students with 24 or more credit hours.
- Official transcripts from post-secondary institutions (colleges and/or universities, including CCAF and DLI)

## Additional Documents

Although not required at the time of application, we recommend that students also submit documentation of credit for prior learning for a comprehensive credit evaluation. These documents may demonstrate college-level learning outside of the traditional classroom and may shorten the time to degree completion. Documents include:

- Official standardized examination scores (e.g., CLEP, DSST)
- Military training and education transcripts (Joint Services Transcript)
- Official transcripts from nationally accredited institutions
- Transcripts documenting evaluated non-college programs (e.g., American Council on Education, National College Credit Recommendation Service)

## Degrees Offered

- Bachelor of Science in Applied Leadership Studies (p. 706)
- Bachelor of Multidisciplinary Studies (p. 708)

## Career Insights

Students enrolled in the degree programs offered by the Division of Continuing Studies bring with them a rich blend of prior learning, professional experience, and personal goals. Our diverse, multi-generational student population includes working professionals, career changers, adult learners returning to finish a degree, and lifelong learners seeking purpose-driven education.

Students pursue their education for a wide range of reasons—from career advancement and professional growth to personal enrichment and the fulfillment of long-held educational goals. Since 1950, more than 27,000 graduates from the Division of Continuing Studies have:

- Advanced in their current careers
- Transitioned into new professional fields
- Reskilled or upskilled to stay competitive in the workforce
- Pursued graduate or professional degrees
- Achieved personal growth and lifelong learning milestones

Our mission is to expand access to high-quality, flexible education that empowers our learners to improve their lives, careers, and communities.

Our student-centered, holistic advising approach ensures that each learner is guided toward a degree path that aligns with their personal, professional, and academic aspirations.

We believe education is a powerful driver of social mobility. Earning a bachelor's degree significantly enhances employment prospects and earning potential. U.S. Bureau of Labor Statistics data ([https://www.bls.gov/careeroutlook/2025/data-on-display/education-pays.htm?utm\\_source=chatgpt.com](https://www.bls.gov/careeroutlook/2025/data-on-display/education-pays.htm?utm_source=chatgpt.com)) underscores the value of a bachelor's degree opening doors to a wide range of career paths and higher earnings.

More specific occupation and career information for our unique degree offerings and concentrations can be found at [complete.unomaha.edu](https://complete.unomaha.edu).

## Career & Professional Pathways Bachelor of Multidisciplinary Studies (BMS)

The Bachelor of Multidisciplinary Studies (BMS) degree offers unparalleled flexibility and customization, making it an ideal choice for learners with varied interests and experiences. Students design a program of study tailored to their professional objectives and personal passions, choosing from a wide range of content areas to align with their goals.

Graduates of the BMS program stand out for their ability to:

- Think critically and solve complex problems
- Collaborate effectively and build meaningful connections
- Exercise ethical judgment and sound decision-making
- Adapt and respond to change in a dynamic world
- Engage in self-directed learning and lifelong development

BMS graduates pursue a wide-range of careers in business, nonprofit leadership, public service, healthcare, information technology, human services, and many other fields. Their success is often grounded in the real-world experience they bring to the table—amplified by the transferable skills developed throughout the program. The BMS degree also prepares students to pursue graduate studies by equipping them with the academic foundation and reflective skills needed for advanced learning.

## Bachelor of Science in Applied Leadership Studies (BSLS)

Launching in Fall 2025, the Bachelor of Science in Applied Leadership Studies (BSLS) is designed for students seeking to lead with purpose in their organizations and communities. The program emphasizes durable skills—those essential for long-term success in a rapidly changing workforce—and supports students in shaping a leadership identity rooted in values, insight, and impact.

The program is grounded in the 5-Cs of Leadership Framework:

- **Character** – Who the leader is (e.g., integrity, responsibility, self-awareness)
- **Communication** – How the leader interacts (e.g., influence, conflict management, storytelling)
- **Connection** – How the leader builds relationships (e.g., collaboration, shared vision, inclusivity)
- **Context** – When and where leadership occurs (e.g., adaptability, innovation, strategic thinking)
- **Content** – What the leader knows (e.g., critical thinking, leadership theories, industry knowledge)

The BSLS prepares graduates to pursue supervisory, managerial, and leadership roles across industries such as healthcare, business, nonprofit, government, education, and public service. Students gain both a theoretical foundation in leadership and practical, applied knowledge aligned with

organizational needs. Through this integrated model, BSLS graduates are equipped not just to lead—but to lead well.

## Personal Fulfillment And Lifelong Learning

Beyond professional outcomes and vocational objectives, both the BMS and BSLS programs support deeply personal and transformational learning journeys. Many students return to college to fulfill a lifelong dream, model perseverance for their families, reignite their curiosity, or complete something they once started.

### Our programs empower students to:

- Accomplish a personal milestone
- Explore interdisciplinary interests
- Cultivate intellectual growth and self-confidence
- Engage more deeply with their communities or values
- Demonstrate a lifelong commitment to learning and development

The Division of Continuing Studies honors each learner's unique path—and supports their success every step of the way.

## Bachelor of Science in Applied Leadership Studies Bachelor of Science in Applied Leadership Studies

The Bachelor of Science in Applied Leadership Studies (BSLS) degree introduces and immerses learners in understanding leadership as a discipline and practice, while cultivating durable, 21st Century Skills that are in high demand. Courses are designed to bridge theory + experience + reflection, allowing learners to apply real-world experience to the classroom. Lessons learned can be immediately applied, building practical skills and knowledge for success in both the modern workplace and contemporary life.

## An Individualized, Integrated Leadership Curriculum

Leadership is not just what you know - it's who you are. The BSLS develops the leader within through an integrative approach that focuses on the student, their life, and their leadership. The BSLS emphasizes integration at multiple levels: integrating the knowledge and experiences adult learners bring to the program, the integrated nature of leadership in practice, and the integration of learning experiences with real-world personal and professional goals. Paired with the top in-demand skills, the BSLS utilizes a leadership framework for developing leaders prepared to navigate today's dynamic environments.

### The Five Cs of Leadership Framework:

- **CHARACTER** (*who* the leader is): Physical and psychological aspects of individual; self-awareness; self-management.
- **COMMUNICATION** (*how* the leader interacts): Sending and receiving information, verbally and non-verbally.
- **CONNECTION** (*how* the leader cultivates and manages relationships): Enabling groups to work together in meaningful ways.
- **CONTEXT** (*when and where* leadership occurs): Cultural, organizational, physical, and psychological environments in which one leads.

- **CONTENT** (*what the leader knows*): Knowledge, understanding, and skills to effectively lead.

## Student Learning Outcomes

The BSLS curriculum is intentionally designed to observe, develop, and enrich program outcomes in our students. Throughout the program, students shape, articulate, and document their progress towards achievement of each Goal and Learning Outcome, independent of where, when, or how the learning was acquired.

### All BSLS students upon completion of the program will:

- Explain the need for ethical, responsible leadership.
- Apply communication skills to influence the leadership process with a variety of audiences in various contexts.
- Demonstrate understanding of the interconnectedness between and within groups and organizations.
- Justify the importance of continuous development and lifelong learning in accomplishing personal and professional leadership development goals.
- Utilize leadership knowledge, skills, abilities, and competencies (KSACs) to creatively solve real-world problems.

## BSLS Contact Information

To learn more about the Bachelor of Science in Applied Leadership Studies#Degree, contact Jessica Swisher, Assistant Director, Success Initiatives jswisher@unomaha.edu

## BSALS Degree Requirements

To obtain a Bachelor of Science in Applied Leadership Studies, students must fulfill the university, college, and program requirements, including:

- A minimum of 120 credit hours, with at least 30 earned at UNO.
- A minimum of 30 credit hours in upper level (3000- or 4000-level) coursework; at least 12 credit hours in the major must be earned at UNO.
- Overall cumulative GPA of at least 2.00, calculated based on all coursework in the University of Nebraska (NU) system.
- Grades of C- or better are required in the University General Education MajEd courses and in major coursework (Foundations, Capstone, and Leadership Competencies and Context blocks).

TOTAL HOURS (MINIMUM): 120

## Bachelor of Science in Applied Leadership Studies Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing - 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication - 3 hrs.</b>                        |   |           |

|  |   |
|--|---|
| CMST 1110<br>or CMST 2120  | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |
| <b>Quantitative Literacy - 3 hrs.</b>  |   |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |
| <b>Data Literacy - 3 hrs.</b>  |   |
| Select one from the following:   |   |
| STAT 1100  | DATA LITERACY AND VISUALIZATION   |
| STAT 1530  | ELEMENTARY STATISTICS   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.  |   |
| <b>Breadth of Knowledge</b>  |   |
| <b>13</b>  |   |
| Social Science - 3 hrs.  |   |
| Humanities - 3 hrs.  |   |
| Natural & Physical Science (must complete a lab) - 4 hrs.  |   |
| Arts - 3 hrs.  |   |
| <b>Individual and Social Responsibility</b>  |   |
| <b>6</b>   |   |
| Cultural Knowledge - 3 hrs.  |   |
| Civic Knowledge and Engagement - 3 hrs.  |   |
| <b>MAJOR REQUIREMENTS - 36 Hours Required</b>  |   |
| **Course will satisfy UNO's General Education requirement  |   |
| ^Course requires pre-requisite(s)  |   |
| <b>Foundations and Capstone Requirement</b>  |   |
| <b>6</b>   |   |
| APLD 3000  | Leadership Foundations Seminar  |
| APLD 4000  | Capstone Application Seminar  |
| APLD 3000 Applied Foundations Seminar will serve as the foundational course for the degree and APLD 4000 Applied Capstone Seminar will serve as the culminating experience of the degree, providing students with the opportunity to develop, apply, and reflect on their leadership knowledge, skills, abilities, and competencies at the beginning and end of the program.   |   |
| <b>Leadership Competencies Block</b>   |   |
| <b>12</b>  |   |
| <b>All of the following:</b>   |   |
| PA 3900  | INTRODUCTION TO INTEGRATED LEADERSHIP (^)   |
| PHIL 3070  | LEADERSHIP ETHICS IN PRACTICE   |
| CMST 2410  | SMALL GROUP COMMUNICATION AND LEADERSHIP (**)   |
| PA 4530  | STRATEGIC PLANNING  |
| <b>Leadership Context Block</b>  |   |
| <b>18</b>  |   |
| The 15 hours of credit may come from coursework to provide a breadth of knowledge or allow a learner to build a deep understanding of leadership in one area of focus. Recommended coursework can come from advisor approved courses focusing on the 5 C's of Leadership: Content, Character, Communication, Connection, and Context or courses focusing on in-demand workplace skills and competencies: Analytical Reasoning, Applied Communication, Global/Intercultural Fluency, Innovation & Creative Thinking, Sales & Service Orientation, Teamwork & Collaboration, or Career Management. |   |
| Undergraduate minor or certificate coursework may be applied with approval.  |   |
| <b>ELECTIVES</b>   |   |
| Elective hours as required to reach a total of 120 hours   |   |

# Bachelor of Multidisciplinary Studies

## Bachelor of Multidisciplinary Studies

The Bachelor of Multidisciplinary Studies (BMS) degree offers a distinct, multidisciplinary learning experience that allows students to pursue areas of study, even those that may be unrelated. This approach cultivates problem-solving skills that draw on diverse perspectives and knowledge and fosters an appreciation and thirst for lifelong learning. Recognizing the diverse needs, interests, and experiences of our multigenerational learners, the BMS program allows for flexibility in acceptance of transfer credit and other college-level learning outside the traditional classroom.

### A Multidisciplinary Approach to Learning

The BMS complements and connects prior learning with the discipline-specific learning students select as part of their degree program. Designed for flexibility, the curriculum allows students to create a highly adaptable, individualized plan of study that aligns with their interests and goals. It intentionally develops both intellectual and practical skills, preparing students to think critically, adapt to evolving challenges, and succeed in the 21st Century.

**The BMS approach to learning enhances our students' abilities to:**

- Cope with uncertainty and ambiguity.
- Adapt to different contexts and environments in a complex, fast-changing world.
- Appreciate and understand multiple perspectives & viewpoints.
- Look across disciplinary boundaries to consider other viewpoints.
- Develop deeper evaluation skills.
- Draw on different frames of reference to identify solutions.

## Student Learning Outcomes

The BMS curriculum is intentionally designed to observe, develop, and enrich program outcomes in our students. Throughout the program, students shape, articulate, and document their progress towards achievement of each Goal and Learning Outcome, independent of where, when, or how the learning was acquired.

**All BMS students upon completion of the program will:**

- Understand the interconnectedness of real-world issues and assess their own ethical values and responsibility.
- Demonstrate effective, context-appropriate communication.
- Apply and connect knowledge from multiple sources to collaboratively explore complex, real-world issues.
- Value and justify the importance of continuous development and lifelong learning and accurately appraise their capabilities and achievements.
- Utilize creative and independent thinking to ask questions, construct knowledge, and express their distinctive voice.

## BMS Fast Track Options

### Fast Track - Business Administration

The College of Business Administration MBA program has developed a FastTrack program for highly qualified and motivated students providing the opportunity to complete a BMS degree and an MBA degree in an accelerated time frame. With FastTrack, students may count up to nine graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BMS degree and desiring to pursue an MBA.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.
- Please note, BSAD 8110 will apply toward the completion of the BMS degree program requirements, but only as a foundation course for the MBA.

### Fast Track - Criminology and Criminal Justice

The School of Criminology and Criminal Justice has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BS in criminology and criminal justice or those pursuing a BMS with a concentration in criminology and criminal justice desiring to pursue either a MA or MS in criminology and criminal justice.
- Students must have completed no less than 75 undergraduate credit hours.
- Students must have a minimum undergraduate GPA of 3.5.



- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their academic advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program but successful completion of the graduate courses will be a significant consideration in admission to the MA or MS in criminology and criminal justice program.
  - The admit term must be after the completion term of the undergraduate degree.

## Fast Track - Cybersecurity

The School of Interdisciplinary Informatics (SI2) has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate credit hours towards the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

### Program Specifics:

- This program is available for undergraduate students pursuing the Bachelor of Multidisciplinary Studies with a concentration in cybersecurity who wish to pursue the MS in cybersecurity.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in the selected CIST program. The application fee will be waived if the

applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.

- Admission to Fast Track does NOT guarantee admission to the graduate program.
- The admit term must be after the completion term of the undergraduate degree.

## Fast Track - Gerontology

The Department of Gerontology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- This program is available for undergraduate students pursuing the Bachelor of Multidisciplinary Studies desiring to pursue the MA in gerontology.
- Students must have completed no fewer than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted to undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Fast Track - IT Innovation

The School of Interdisciplinary Informatics (SI2) has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

### Program Specifics:

- This program is available for undergraduate students pursuing the Bachelor of Multidisciplinary Studies desiring to pursue the MS in ITIN.

- Students must have completed no less than 60 undergraduate hours and with at least 24 undergraduate credits yet to complete.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit it to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in the selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Fast Track - Management Information Systems

The Department of Information Systems and Quantitative Analysis has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

### Program Specifics:

- This program is available for undergraduate students pursuing a Bachelor of Multidisciplinary Studies who wish to pursue the MS in MIS.
- Students must have completed no less than 60 undergraduate hours and within at least 24 undergraduate credits yet to complete.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form, obtain all signatures and submit it to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.

- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Fast Track - Public Administration

The School of Public Administration has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- This program is available for undergraduate students pursuing the Bachelor of Multidisciplinary Studies.
- Students should have senior status and must be within at least 30 undergraduate credits yet to complete their undergraduate degree. Exceptional students who do not meet this requirement may be considered.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast-Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- Students must consult with the MPA advisor prior to enrollment in one of the courses listed below.
- A minimum cumulative GPA of 3.5 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the MPA program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - For this program, if students maintain at least a grade of B+ in courses taken, they will be recommended for admission to the MPA program.
  - The admit term must be after the completion term of the undergraduate degree.

### The following courses may be taken under the Fast-Track program:

- PA 8050: Foundations of Public Service
- PA 8090: Organizational Theory and Behavior
- PA 8100: Advanced Management and Leadership for Public and Nonprofit Organizations (Note: This course

may only be taken if both PA 8050 and PA 8090 are completed).

## Fast Track - Urban Studies

The Master of Science in urban studies program has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

### Program Specifics:

- This program is available for undergraduate students pursuing the Bachelor of Multidisciplinary Studies.
- Students must be within at least 30 undergraduate credits yet to complete their undergraduate degree. Exceptional students who do not meet this requirement may be considered.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses.
- Students must consult with the urban studies advisor prior to enrollment in one of the courses listed below.
- A minimum cumulative GPA of 3.5 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the MS in urban studies program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - For this program, if students maintain at least a grade of B+ in courses taken, they will be recommended for admission to the MS in urban studies.
  - The admit term must be after the completion term of the undergraduate degree.

### The following courses may be taken under the Fast Track program:

- BLST 8886: Seminar on Black Leadership
- UBNS 8000: Seminar in Urban Studies
- UBNS 8060: Introduction to Urban Planning
- UBNS 8020: Race, Ethnicity and American Urban Culture\*\*
- UBNS 8200: Community Organizing and Development\*\*
- PA 8010: The Public Economy (Must have completed or be concurrently enrolled in UBNS 8000)

## BMS Contact Information

To learn more about the Bachelor of Multidisciplinary Studies degree visit ([https://www.unomaha.edu/college-of-public-affairs-and-community-service/division-of-continuing-studies/%22%20/t%20%22\\_blank/](https://www.unomaha.edu/college-of-public-affairs-and-community-service/division-of-continuing-studies/%22%20/t%20%22_blank/)) or schedule a meeting with an academic advisor at one of our two Division of Continuing Studies locations:

- CPACS 207 | 402.554.2370 | [unodcs@unomaha.edu](mailto:unodcs@unomaha.edu) ([unodcs@unomaha.edu%22%20/t%20%22\\_blank](https://www.unomaha.edu/college-of-public-affairs-and-community-service/division-of-continuing-studies/%22%20/t%20%22_blank/))
- Office at Offutt Air Force Base | 402.554.6305 | [unooffutt@unomaha.edu](mailto:unooffutt@unomaha.edu)

## Bachelor of Multidisciplinary Studies Requirements

To obtain a BMS, students must fulfill the university, college, and program requirements, including:

- A minimum of 120 credit hours is required, with at least 30 earned at UNO.
- A minimum of 30 credit hours in upper level (3000- or 4000-level) coursework; at least 12 credit hours in the major must be earned at UNO.
- Overall cumulative GPA of at least 2.00, calculated based on all courses in the University of Nebraska (NU) system.
- Grades of C- or better are required in the University General Education MavEd courses and in major coursework (MLTI Seminars and Blocks 1-3).

TOTAL HOURS (MINIMUM): 120

## Multidisciplinary Studies Major Core

The Multidisciplinary Core consists of three (15-hour) blocks of credit and is designed to combine two or more areas of study, allowing students the opportunity to explore and connect varying perspectives and viewpoints.

### The Bachelor of Multidisciplinary Studies degree can be constructed in the following two ways:

- Bachelor of Multidisciplinary Studies - Concentration Required (p. 712)
- Bachelor of Multidisciplinary Studies - Concentration Not Required (p. 712)

## Pathway Concentration Option

The Pathway concentration is for students who wish to move to another degree program at UNO, but do not currently meet entry requirements for that program. Students work with UNO academic advisors to navigate the transition to their program of choice. Students may not earn a degree through the Pathway concentration, however, may ultimately choose to complete their degree through the BMS program by selecting a Multidisciplinary Studies program of study.

## Double Area of Concentration

Students pursuing two Areas of Concentration may "double count" courses to satisfy requirements for both concentrations. It is a students' responsibility to declare both concentrations.

# Bachelor of Multidisciplinary Studies Degree Concentrations

The curriculum of each BMS Concentration is determined by the faculty of the respective academic department(s). Concentration curricular revisions are made in partnership with academic departments.

- Applied Aging Studies (p. 713)
- Applied Leadership (p. 714)
- Aviation Studies (p. 715)
- Behavioral Health (p. 715)
- Biology (p. 716)
- Communication Studies (p. 716)
- Computer Science (p. 717)
- Criminology and Criminal Justice (p. 718)
- Cross Sector Leadership (p. 718)
- Cybersecurity (p. 719)
- Emergency Management (p. 719)
- English (p. 720)
- Environmental Sciences (p. 721)
- Fine Arts (p. 721)
- General Administration (p. 722)
- General Science (p. 722)
- Geography (p. 723)
- Health Care Administration (p. 724)
- History (p. 725)
- Industrial Distribution & Logistics (p. 725)
- Information Technology (p. 726)
- Library Science (p. 726)
- Management Information Systems (p. 728)
- Media Communication (p. 727)
- Nonprofit Administration (p. 728)
- Organizational Development (p. 729)
- Philosophy (p. 730)
- Political Science (p. 730)
- Psychology (p. 731)
- Sociology (p. 732)

# Bachelor of Multidisciplinary Studies - Concentration Not Required

## Bachelor of Multidisciplinary Studies, Concentration Not Required Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |

|   |   |           |
|---|---|-----------|
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (*)               |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (*)                  |           |
| <b>Block 1</b>  |   | <b>15</b> |
| At least 6 hours must be Upper Division (3000- to 4000-level coursework) completed at UNO   |   |           |
| <b>Block 2</b>  |   | <b>15</b> |
| At least 6 hours must be Upper Division (3000- to 4000-level coursework) completed at UNO   |   |           |
| <b>Block 3</b>  |   | <b>15</b> |
| <b>ELECTIVES</b>  |   |           |
| Elective hours as required to reach a total of 120 hours  |   |           |

# Bachelor of Multidisciplinary Studies - Concentration Required

## Bachelor of Multidisciplinary Studies - Concentration Required Requirements

| Code  | Title                 | Credits   |
|---|-----------------------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |                       |           |
| Minimum of "C-"required                                   |                       |           |
| <b>Fundamental Skills</b>                                 |                       | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |                       |           |
| ENGL 1150   | ENGLISH COMPOSITION I |           |

|   |   |
|---|---|
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |
| <b>Oral Communication – 3 hrs.</b>  |   |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following</b>   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |
| <b>Select a Concentration</b>   | <b>30</b>   |
| Applied Aging Studies   |   |
| Applied Leadership  |   |
| Aviation Studies  |   |
| Behavioral Health   |   |
| Biology   |   |
| Communication Studies   |   |
| Computer Science  |   |
| Criminology and Criminal Justice  |   |
| Cross Sector Leadership   |   |
| Cybersecurity   |   |
| Emergency Management  |   |
| English   |   |
| Environmental Sciences  |   |
| Fine Arts   |   |
| General Administration  |   |
| General Science   |   |
| Geography   |   |
| Healthcare Administration   |   |
| History   |   |
| Industrial Distribution & Logistics   |   |
| Information Technology  |   |
| Library Science   |   |

Management Information Systems

Media Communication

Nonprofit Administration

Organizational Development

Philosophy

Political Science

Psychology

Sociology

**Required third content block 15****ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Applied Aging Studies Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Applied Aging Studies Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |



|   |   |           |
|---|---|-----------|
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)     |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)        |           |
| <b>Applied Aging Studies Concentration Requirements – 30 Hours</b>  |   |           |
| <b>All of the following</b>   |   | <b>9</b>  |
| GERO 2000   | INTRODUCTION TO GERONTOLOGY (**)              |           |
| GERO 4460   | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^) |           |
| GERO 3000   | COMMUNITY RESOURCES FOR OLDER ADULTS (^)      |           |
| or GERO 4670  | PROGRAMS AND SERVICES FOR OLDER ADULTS        |           |
| <b>Additional 21 hours from the Department of Gerontology (GERO). Up to 9 hours in coursework outside of the Gerontology Department may count towards degree requirements with approval. More than 9 hours outside of GERO coursework may count if selecting a focus area that utilizes a minor (see below). 21 Focus areas are available by pairing minors or specific sets of courses with the required Gerontology (GERO) coursework. Possible focus areas include Elder Protection (GERO + Victimology and Victim Services minor), Health Promotion &amp; Prevention (GERO + Public Health Minor), Marketing to Seniors (GERO + Sales Minor or Marketing Minor for Non-Business Majors), Motivational Wellness (GERO + Wellness &amp; Activity-Focused Coursework), Patient Advocacy (GERO + Advocate-Focused Coursework), Aging Administration (GERO + Long-Term Care Administration Coursework) among others depending on personal or professional goals. Please consult with an academic advisor to discuss options.</b> |   | <b>21</b> |
| <b>Required third content block</b>   |   | <b>15</b> |
| <b>ELECTIVES</b>  |   |           |
| Elective hours as required to reach a total of 120 hours  |   |           |

## Applied Leadership Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Applied Leadership Concentration Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |

|   |   |
|---|---|
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.   |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following</b>   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |
| <b>Applied Leadership Concentration Requirements - 30 Hours</b>   |   |
| <b>All of the following:</b>  | <b>12</b>   |
| PA 3900   | INTRODUCTION TO INTEGRATED LEADERSHIP (^)               |
| PHIL 3070   | LEADERSHIP ETHICS IN PRACTICE                           |
| CMST 2410   | SMALL GROUP COMMUNICATION AND LEADERSHIP (**)           |
| PA 4530   | STRATEGIC PLANNING                                      |
| <b>Additional 18 hours of coursework in Leadership Context – coursework that builds on and further develops leadership knowledge and skills</b>   | <b>18</b>   |
| The 18 hours of credit may come from coursework to provide a breadth of knowledge or allow a learner to build a deep understanding of leadership in one area of focus. Recommended coursework can come from advisor approved courses focusing on the 5 C's of Leadership: Content, Character, Communication, Connection, and Context or courses focusing on in-demand workplace skills and competencies: Analytical Reasoning, Applied Communication, Global/ Intercultural Fluency, Innovation & Creative Thinking, Sales & Service Orientation, Teamwork & Collaboration, or Career Management. |   |
| Undergraduate minor or certificate coursework may be applied with approval.   |   |
| <b>Required third content block</b>   | <b>15</b>   |
| <b>ELECTIVES</b>  |   |
| Elective hours as required to reach a total of 120 hours  |   |

## Aviation Studies Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Aviation Studies Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |           |
| <b>Aviation Studies Concentration Requirements – 30 Hours</b>   |   |           |
| <b>All of the following</b>   |   | <b>9</b>  |
| AVN 1000  | INTRODUCTION TO AVIATION AND AEROSPACE (** ^)           |           |
| AVN 1040  | HISTORY OF AVIATION AND AEROSPACE (**)                  |           |

|   |                     |
|---|---------------------|
| AVN 1160  | AVIATION SAFETY (^) |
| <b>Additional hours from the Aviation Institute (AVN)</b> | <b>21</b>           |
| <b>Required third content block</b>                       | <b>15</b>           |
| <b>ELECTIVES</b>  |                     |
| Elective hours as required to reach a total of 120 hours  |                     |

## Behavioral Health Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Behavioral Health Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |           |

| <b>Behavioral Health Concentration Requirements – 30 Hours</b>                  |   |
|---|---|
| <b>All of the following</b>   | <b>15</b>   |
| SOWK 1000   | SOCIAL WORK AND SOCIAL WELFARE (**)                   |
| SOWK 1500   | SOCIAL WORK AND CIVIC ENGAGEMENT (^)                  |
| PHHB 2070   | SUBSTANCE ABUSE AND MISUSE: PREVENTION AND MANAGEMENT |
| PSYC 2500   | LIFESPAN PSYCHOLOGY (^)                               |
| PSYC 4440   | ABNORMAL PSYCHOLOGY (^)                               |
| <b>Additional coursework to be selected from 2 of the 4 areas listed below:</b> | <b>15</b>   |
| Human Development   |   |
| Clinical  |   |
| Health  |   |
| Measurement   |   |
| <b>Required third content block</b>   | <b>15</b>   |
| <b>ELECTIVES</b>  |   |
| Elective hours as required to reach a total of 120 hours                        |   |

## Biology Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Biology Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |

|   |   |
|---|---|
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>                                  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following</b>   | <b>6</b>                                  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^) |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)    |
| <b>Biology Concentration Requirements – 30 Hours</b>  |   |
| <b>All of the following</b>   | <b>10</b>                                 |
| BIOL 1450   | BIOLOGY I (** ^)                          |
| BIOL 1750   | BIOLOGY II (^)                            |
| <b>Additional hours from the Department of Biology (BIOL) or related coursework with approval</b> | <b>20</b>                                 |
| <b>Required third content block</b>   | <b>15</b>                                 |
| <b>ELECTIVES</b>  |   |
| Elective hours as required to reach a total of 120 hours  |   |

## Communication Studies Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Communication Studies Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |

|   |  |
|---|--|
| Social Science – 3 hrs.   |  |
| Humanities – 3 hrs.   |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility</b>   | <b>6</b>   |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following</b>   | <b>6</b>   |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)                |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                   |
| <b>Communication Studies Concentration Requirements – 30 Hours</b>  |  |
| <b>Select one from the following:</b>   | <b>3</b>   |
| CMST 2010   | INTERPERSONAL COMMUNICATION (**)                         |
| CMST 2410   | SMALL GROUP COMMUNICATION AND LEADERSHIP (**)            |
| <b>Select one from the following:</b>   | <b>3</b>   |
| CMST 3130   | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |
| CMST 3140   | CONTEMPORARY PRESENTATIONS (^)                           |
| CMST 3520   | INTERVIEWING   |
| <b>Additional hours from Communication Studies (CMST). Up to 9 hours in coursework from Journalism and Media Communication (JMC) or other relevant content areas may count toward degree requirements with approval</b> | <b>24</b>  |
| <b>Required third content block</b>   | <b>15</b>  |
| <b>ELECTIVES</b>  |  |
| Elective hours as required to reach a total of 120 hours  |  |

## Computer Science Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Computer Science Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |

|   |  |           |
|---|--|-----------|
| or MATH 1130  | QUANTITATIVE LITERACY                                      |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS        |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                               |           |
| <b>Data Literacy – 3 hrs.</b>   |  |           |
| Select one from the following:  |  |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                            |           |
| STAT 1530   | ELEMENTARY STATISTICS                                      |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |  |           |
| <b>Breadth of Knowledge</b>   |  | <b>13</b> |
| Social Science – 3 hrs.   |  |           |
| Humanities – 3 hrs.   |  |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |           |
| Arts – 3 hrs.   |  |           |
| <b>Individual and Social Responsibility</b>   |  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |  |           |
| Civic Knowledge and Engagement – 3 hrs.   |  |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |  |           |
| **Course will satisfy UNO's General Education requirement   |  |           |
| ^Course requires pre-requisite(s)   |  |           |
| <b>All of the following</b>   |  | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)                  |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                     |           |
| <b>Computer Science Concentration Requirements – 30 Hours</b>   |  |           |
| <b>All of the following</b>   |  | <b>18</b> |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)                     |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)                    |           |
| CSCI 2030   | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (^)           |           |
| or MATH 2030  | DISCRETE MATHEMATICS                                       |           |
| CSCI 3320   | DATA STRUCTURES (^)  |           |
| CSCI 4830   | INTRODUCTION SOFTWARE ENGINEERING (^)                      |           |
| MATH 1930   | CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^) |           |
| or MATH 1950  | CALCULUS I   |           |
| <b>Additional hours of coursework from the Department of Computer Science (CSCI), 6 of the 12 hours must be upper division (3000-4000 level) coursework</b>       |  | <b>12</b> |
| <b>Required third content block</b>   |  | <b>15</b> |
| <b>ELECTIVES</b>  |  |           |
| Elective hours as required to reach a total of 120 hours  |  |           |

# Criminology and Criminal Justice Concentration

## Bachelor of Multidisciplinary Studies, Concentration Required - Criminology & Criminal Justice Concentration Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>  |   |           |
| Minimum of "C-" required   |   |           |
| <b>Fundamental Skills</b>  |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>  |   |           |
| ENGL 1150  | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>   |   |           |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120   | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>  |   |           |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130   | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140   | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>  |   |           |
| Select one from the following:   |   |           |
| STAT 1100  | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530  | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.  |   |           |
| <b>Breadth of Knowledge</b>  |   | <b>13</b> |
| Social Science – 3 hrs.  |   |           |
| Humanities – 3 hrs.  |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.  |   |           |
| Arts – 3 hrs.  |   |           |
| <b>Individual and Social Responsibility</b>  |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |           |
| Civic Knowledge and Engagement – 3 hrs.  |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>  |   |           |
| **Course will satisfy UNO's General Education requirement  |   |           |
| ^Course requires pre-requisite(s)  |   |           |
| <b>All of the following</b>  |   | <b>6</b>  |
| MLTI 3000  | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |           |
| MLTI 4000  | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |           |
| <b>Criminology and Criminal Justice Concentration Requirements</b>   |   | <b>30</b> |
| 30 hours from the School of Criminology and Criminal Justice (CRCJ). Up to 9 hours in related coursework outside of the School or Criminology and Criminal Justice may count towards degree requirements with approval |   |           |
| <b>Required third content block</b>  |   | <b>15</b> |

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Cross Sector Leadership Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Cross Sector Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |           |
| <b>Cross Sector Leadership Concentration Requirements – 30 Hours</b>  |   |           |
| <b>All of the following</b>   |   | <b>15</b> |



|   |  |           |
|---|--|-----------|
| MGMT/PA 3800  | CROSS-SECTOR COLLABORATIVE LEADERSHIP (^)          |           |
| PA 4960   | CROSS-SECTOR COLLABORATIVE LEADERSHIP CAPSTONE (^) |           |
| Course Focused on Public Sector Organizations.  |  |           |
| Course Focused on Private Sector Organizations.   |  |           |
| Course Focused on Nonprofit Sector Organizations.   |  |           |
| <b>Additional 15 hours in coursework related to leadership, collaboration, and problem solving across sectors - public, private, nonprofit.</b> |  | <b>15</b> |
| <b>Required third content block</b>   |  | <b>15</b> |
| <b>ELECTIVES</b>  |  |           |
| Elective hours as required to reach a total of 120 hours  |  |           |

## Cybersecurity Concentration Bachelor of Multidisciplinary Studies, Concentration Required - Cybersecurity Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |

|   |  |           |
|---|--|-----------|
| <b>All of the following</b>   |  | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)  |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)     |           |
| <b>Cybersecurity Concentration Requirements – 30 Hours</b>  |  |           |
| <b>All of the following</b>   |  | <b>27</b> |
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)     |           |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)       |           |
| CSCI 1620   | INTRODUCTION TO COMPUTER SCIENCE II (^)    |           |
| CSCI 2240   | INTRODUCTION TO C PROGRAMMING (^)          |           |
| or CYBR 2250  | LOW-LEVEL PROGRAMMING                      |           |
| CYBR 2600   | SYSTEM ADMINISTRATION (^)                  |           |
| CYBR 3050   | PRINCIPLES OF CYBER OPERATIONS AND DEFENSE |           |
| or CYBR 4360  | PRINCIPLES OF SECURE SYSTEM DESIGN         |           |
| CYBR 3600   | CYBERSECURITY POLICY AND AWARENESS (^)     |           |
| CIST 4540   | COMPUTER SECURITY MANAGEMENT (^)           |           |
| ISQA 3400   | INFORMATION TECHNOLOGY INFRASTRUCTURE (^)  |           |
| or CSCI 3550  | COMMUNICATION NETWORKS                     |           |
| <b>An additional course from any IS&amp;T department (ACMP, AIML, BIOD, CIST, CSCI, CYBR, ISQA)</b> |  | <b>3</b>  |
| <b>Required third content block</b>   |  | <b>15</b> |
| <b>ELECTIVES</b>  |  |           |
| Elective hours as required to reach a total of 120 hours  |  |           |

## Emergency Management Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Emergency Management Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |

|   |   |
|---|---|
| or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT   |   |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                           |
| STAT 1530   | ELEMENTARY STATISTICS                                     |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following</b>   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)                 |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                    |
| <b>Emergency Management Concentration Requirements – 30 Hours</b>   |   |
| <b>All of the following</b>   | <b>21</b>   |
| EMGT 1000   | INTRODUCTION TO EMERGENCY MANAGEMENT (**)                 |
| EMGT 2020   | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)     |
| EMGT 2050   | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^) |
| PA 2170   | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                |
| EMGT 3040   | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)             |
| EMGT 3080   | AGENCY COLLABORATION DURING DISASTERS (^)                 |
| EMGT 4060   | DISASTER RESPONSE AND RECOVERY (^)                        |
| <b>Additional courses from Emergency Management (EMGT) or other department with approval</b>  | <b>9</b>  |
| <b>Required third content block</b>   | <b>15</b>   |
| <b>ELECTIVES</b>  |   |
| Elective hours as required to reach a total of 120 hours  |   |

## English Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - English Concentration Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of "C-" required                                  |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |

|   |   |
|---|---|
| <b>Writing – 6 hrs.</b>   |   |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |
| <b>Oral Communication – 3 hrs.</b>  |   |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.                   |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following</b>   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |
| <b>English Concentration Requirements – 30 Hours</b>  |   |
| <b>30 hours from the Department of English (ENGL). Up to 9 hours in related coursework outside of the English Department may count toward degree requirements with approval</b>     | <b>30</b>   |
| Note: ENGL 1150 & ENGL 1160 English Composition I & II (or equivalents) will count toward University General Education requirements and not toward the 30 hours in ENGL coursework. |   |
| <b>Required third content block</b>   | <b>15</b>   |
| <b>ELECTIVES</b>  |   |
| Elective hours as required to reach a total of 120 hours  |   |

# Environmental Sciences Concentration

## Bachelor of Multidisciplinary Studies, Concentration Required - Environmental Science Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |           |
| <b>Environmental Sciences Concentration Requirements – 30 Hours</b>   |   |           |
| <b>All of the following</b>   |   | <b>16</b> |
| ENVN 2010   | ENVIRONMENTAL PROBLEMS AND SOLUTIONS (^)                |           |
| BIOL 1330   | ENVIRONMENTAL BIOLOGY (**)                              |           |

|                       |   |
|-----------------------|---|
| CHEM 1010 & CHEM 1014 | CHEMISTRY IN THE ENVIRONMENT AND SOCIETY and CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (** ^) |
| GEOL 1010             | ENVIRONMENTAL GEOLOGY (**)  |
| GEOG 1030             | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)   |
| or GEOG 1050          | HUMAN-ENVIRONMENT GEOGRAPHY   |

**Additional hours of coursework from Environmental Studies (ENVN) or coursework from any of the Environmental Sciences concentrations** **14**

Courses for the Environmental Sciences concentrations can be found through the College of Arts & Science Environmental Science academic catalog pages

**Required third content block** **15**

### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Fine Arts Concentration

## Bachelor of Multidisciplinary Studies, Concentration Required - Fine Arts Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |

|  |   |
|--|---|
| Cultural Knowledge – 3 hrs.  |   |
| Civic Knowledge and Engagement – 3 hrs.  |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>  |   |
| **Course will satisfy UNO's General Education requirement  |   |
| ^Course requires pre-requisite(s)  |   |
| <b>All of the following</b>  | <b>6</b>                                  |
| MLTI 3000  | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^) |
| MLTI 4000  | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)    |
| <b>Fine Arts Concentration Requirements</b>  | <b>30</b>                                 |
| 30 credit hours from Fine Arts content areas: Art and Art History (ART), Creative Writing (WRWS), Music (MUS), Theatre (THEA). |   |
| <b>Required third content block</b>  | <b>15</b>                                 |
| <b>ELECTIVES</b>   |   |
| Elective hours as required to reach a total of 120 hours   |   |

## General Administration Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - General Administration Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |

|  |   |           |
|--|---|-----------|
| <b>Individual and Social Responsibility</b>  |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |           |
| Civic Knowledge and Engagement – 3 hrs.  |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>  |   |           |
| **Course will satisfy UNO's General Education requirement  |   |           |
| ^Course requires pre-requisite(s)  |   |           |
| <b>All of the following</b>  |   | <b>6</b>  |
| MLTI 3000  | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^) |           |
| MLTI 4000  | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)    |           |
| <b>General Administration Concentration Requirements</b>   |   | <b>30</b> |
| 30 hours of Accounting (ACCT), Economics (ECON), Entrepreneurship (ENTR), Finance and Baking (FNBK), Business Administration (BSAD), Law and Society (LAWS), Management (MGMT), Marketing (MKT), Real Estate (RELU), Supply Chain Management (SCMT) and Public Administration (PA).  |   |           |
| Up to 9 hours in Political Science (PSCI) coursework may count towards degree requirements with approval   |   |           |
| NOTE: Due to the UNO College of Business' AACSB accreditation, students in the Division of Continuing Studies are permitted to use only 29 hours of UNO business credit towards their Bachelor of Multidisciplinary Studies degree. Students need to plan their 29 hours of UNO business courses carefully to make the best use of these hours. Exceptions are granted on a case-by-case basis, please check with your academic advisor. |   |           |
| <b>Required third content block</b>  |   | <b>15</b> |
| <b>ELECTIVES</b>   |   |           |
| Elective hours as required to reach a total of 120 hours   |   |           |

## General Science Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - General Science Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-"required                                   |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |

|   |   |
|---|---|
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION           |
| STAT 1530   | ELEMENTARY STATISTICS                     |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>                                 |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>                                  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following</b>   | <b>6</b>                                  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^) |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)    |
| <b>General Science Concentration Requirements – 30 Hours</b>  | <b>30</b>                                 |
| 30 hours of coursework in natural, physical, or applied sciences.   |   |
| <b>Required third content block</b>   | <b>15</b>                                 |
| <b>ELECTIVES</b>  |   |
| Elective hours as required to reach a total of 120 hours  |   |

## Geography Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Geography Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |

|   |   |
|---|---|
| STAT 1530   | ELEMENTARY STATISTICS                                       |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.                             |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following</b>   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)                   |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                      |
| <b>Geography Concentration Requirements</b>   |   |
| 30 hours from the Department of Geography (GEOG). Students should take one course from the following Geography Diversity Groups: Physical Geography, Human Geography, and Global Perspectives |   |
| <b>Physical Geography</b>   | <b>3</b>  |
| GEOG 1030   | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**) |
| GEOG 3440   | NEBRASKA NATURAL RESOURCES MANAGEMENT (^)                   |
| GEOG 3510 & GEOG 3514   | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (**) |
| GEOG 4010   | CONSERVATION OF NATURAL RESOURCES (^)                       |
| GEOG 4040   | GEOARCHAEOLOGY (^)  |
| GEOG 4100   | BIOGEOGRAPHY (^)  |
| GEOG 4260   | PROCESS GEOMORPHOLOGY (^)                                   |
| GEOG 4320   | CLIMATOLOGY (^)   |
| GEOG 4330   | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)             |
| GEOG 4340   | WATER RESOURCES (^)   |
| GEOG 4610   | ENVIRONMENTAL MONITORING AND ASSESSMENT (^)                 |
| <b>Human Geography</b>  | <b>3</b>  |
| GEOG 1020   | INTRODUCTION TO HUMAN GEOGRAPHY (**)                        |
| GEOG 3130   | ECONOMIC GEOGRAPHY (^)                                      |
| GEOG 3930   | POLITICAL GEOGRAPHY (^)                                     |
| GEOG 4010   | CONSERVATION OF NATURAL RESOURCES (^)                       |
| GEOG 4120   | URBAN GEOGRAPHY   |
| GEOG 4150   | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)                  |
| GEOG 4160   | URBAN SUSTAINABILITY (^)                                    |
| GEOG 4170   | ADVANCED CULTURAL GEOGRAPHY (^)                             |
| GEOG 4550   | GEOGRAPHY OF THE WORLD ECONOMY (^)                          |



|  |   |           |
|--|---|-----------|
| GEOG 4820  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^) |           |
| <b>Global &amp; North American Perspectives</b>          |   | <b>3</b>  |
| GEOG 1000  | WORLD REGIONAL GEOGRAPHY (**)                       |           |
| GEOG 3000  | TRAVEL STUDY IN GEOGRAPHY (^)                       |           |
| GEOG 3030  | GEOGRAPHY OF AFRICA (^)                             |           |
| GEOG 3050  | GEOGRAPHY IN FILM (^)                               |           |
| GEOG 3070  | GEOGRAPHY OF LATIN AMERICA (^)                      |           |
| GEOG 3080  | EAST & SOUTHEAST ASIA (^)                           |           |
| GEOG 3230  | GEOGRAPHY OF EUROPE (^)                             |           |
| GEOG 3240  | GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^)           |           |
| GEOG 3330  | UNITED STATES & CANADA (^)                          |           |
| GEOG 4230  | GREAT PLAINS & NEBRASKA                             |           |
| GEOG 4530  | HISTORICAL GEOGRAPHY OF THE UNITED STATES (^)       |           |
| <b>Additional hours from Geography (GEOG)</b>            |   | <b>21</b> |
| <b>Required third content block</b>                      |   | <b>15</b> |
| <b>ELECTIVES</b>   |   |           |
| Elective hours as required to reach a total of 120 hours |   |           |

## Health Care Administration Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Health Care Administration Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |

|   |  |
|---|--|
| Humanities – 3 hrs.   |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |  |
| Arts – 3 hrs.   |  |
| <b>Individual and Social Responsibility</b>   |  |
| Cultural Knowledge – 3 hrs.   |  |
| Civic Knowledge and Engagement – 3 hrs.   |  |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |  |
| **Course will satisfy UNO's General Education requirement   |  |
| ^Course requires pre-requisite(s)   |  |
| <b>All of the following:</b>  |  |
| <b>6</b>  |  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)                |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                   |
| <b>Healthcare Administration Concentration Requirements – 30 Hours</b>  |  |
| Select one course from each of the competencies.  |  |
| <b>Leadership</b>   |  |
| <b>3</b>  |  |
| PA 2000   | LEADERSHIP & ADMINISTRATION (**)                         |
| PA 4440   | ORGANIZATIONAL DEVELOPMENT AND CHANGE                    |
| MGMT 4040   | MANAGING BEHAVIOR IN ORGANIZATIONS (^)                   |
| MGMT 4100   | MANAGING CHANGE AND INNOVATION (^)                       |
| <b>Communication and Relationship Management</b>  |  |
| <b>3</b>  |  |
| CMST 2410   | SMALL GROUP COMMUNICATION AND LEADERSHIP (**)            |
| CMST 4170   | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP (^)          |
| CMST 4180   | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS (^) |
| CMST 4800   | CONFLICT MEDIATION (^)                                   |
| MGMT 4090   | MANAGING COLLABORATIVE ENGAGEMENT (^)                    |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                              |
| SCMT 4450   | MANAGERIAL NEGOTIATION STRATEGIES (^)                    |
| <b>Professional and Social Responsibility</b>   |  |
| <b>3</b>  |  |
| BSAD 3600   | BUSINESS ETHICS (^)                                      |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)                     |
| PHIL 2030   | INTRODUCTION TO ETHICS (**)                              |
| PHIL 2300   | BIOMEDICAL ETHICS  |
| <b>Health and the Healthcare Environment</b>  |  |
| <b>3</b>  |  |
| PA 4206   | INTRODUCTION TO HEALTH CARE SYSTEMS (^)                  |
| <b>Business</b>   |  |
| <b>3</b>  |  |
| PA 3500   | NONPROFIT ORGANIZATIONS AND MANAGEMENT (^)               |
| GERO 4510   | LONG-TERM CARE ADMINISTRATION                            |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                    |
| MGMT 4060   | HEALTHCARE ANALYTICS FOR BUSINESS (^)                    |
| MGMT 4330   | PROJECT MANAGEMENT (^)                                   |
| PA 4530   | STRATEGIC PLANNING (^)                                   |
| <b>Additional hours in healthcare administration and leadership-related coursework. May use courses from above not applied to the competency area</b> |  |
| <b>15</b>   |  |

**Required third content block 15**

## ELECTIVES

Elective hours as required to reach a total of 120 hours

# History Concentration

## Bachelor of Multidisciplinary Studies, Concentration Required - History Concentration Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

### Fundamental Skills 15

#### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

#### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

#### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS - 51 Hours Required

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### All of the following 6

MLTI 3000 MULTIDISCIPLINARY FOUNDATIONS SEMINAR (\*)

MLTI 4000 MULTIDISCIPLINARY CAPSTONE SEMINAR (\*)

### History Concentration Requirements 30

30 hours from the Department of History (HIST). Up to 9 hours in related coursework outside of the History Department may count toward degree requirements with approval.

**Required third content block - 15 hours 15**

## ELECTIVES

Elective hours as required to reach a total of 120 hours

# Industrial Distribution & Logistics Concentration

## Bachelor of Multidisciplinary Studies, Concentration Required - Industrial Distribution & Logistics Concentration Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

### GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

### Fundamental Skills 15

#### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

#### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

#### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

#### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS - 51 Hours Required

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### All of the following 6

MLTI 3000 MULTIDISCIPLINARY FOUNDATIONS SEMINAR (\*)

MLTI 4000 MULTIDISCIPLINARY CAPSTONE SEMINAR (\*)

### Industrial Distribution & Logistics Concentration Requirements – 30 Hours

|   |  |           |
|---|--|-----------|
| <b>All of the following</b>   |  | <b>15</b> |
| MKT 3200  | BUSINESS COMMUNICATIONS (^)                        |           |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)              |           |
| SCMT 3410   | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (^)        |           |
| SCMT 4350   | GLOBAL SOURCING AND INNOVATION (^)                 |           |
| SCMT 4380   | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT (^) |           |
| <b>Additional hours of coursework in Supply Chain Management (SCMT) or related coursework with approval</b> |  | <b>15</b> |
| <b>Required third content block</b>   |  | <b>15</b> |
| <b>ELECTIVES</b>  |  |           |
| Elective hours as required to reach a total of 120 hours  |  |           |

## Information Technology Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Information Technology Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |

|   |   |           |
|---|---|-----------|
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^) |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)    |           |
| <b>Information Technology Concentration Requirements – 30 Hours</b>   |   |           |
| <b>30 hours of coursework from the academic units in the College of Information Science &amp; Technology (ACMP, AIML, BIOI, CIST, CSCI, CYBR, ISQA). Must include at least 12 hours of upper-level coursework (3000- to 4000-level) completed at UNO.</b> |   | <b>30</b> |
| Related coursework and alternative credit may count towards degree requirements with approval   |   |           |
| Undergraduate Certificates in Data Management, IT Administration, or Systems Development may be completed as part of the Information Technology concentration   |   |           |
| <b>Required third content block</b>   |   | <b>15</b> |
| <b>ELECTIVES</b>  |   |           |
| Elective hours as required to reach a total of 120 hours  |   |           |

## Library Science Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Library Science Concentration Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS -34 Hours Required</b> |   |           |
| Minimum of "C-" required                                 |   |           |
| <b>Fundamental Skills</b>                                |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                  |   |           |
| ENGL 1150  | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                       |   |           |
| CMST 1110  | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120   | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                    |   |           |
| MATH 1120  | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130   | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140   | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                            |   |           |
| Select one from the following:                           |   |           |
| STAT 1100  | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530  | ELEMENTARY STATISTICS                                   |           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### **MAJOR REQUIREMENTS - 51 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **All of the following 6**

MLTI 3000 MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)

MLTI 4000 MULTIDISCIPLINARY CAPSTONE SEMINAR (^)

### **Library Science Concentration Requirements – 30 Hours**

### **All of the following 30**

TED 2160 INTRODUCTION TO LIBRARY SERVICES

TED 2360 CHILDREN'S LITERATURE (^)

TED 2500 DIGITAL CITIZENSHIP

TED 3760 ADULT SERVICES, PROGRAMMING, AND OUTREACH IN LIBRARIES (^)

TED 4590 TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS

TED 4660 YOUNG ADULT LITERATURE

TED 4710 RESEARCH AND INQUIRY

TED 4740 ORGANIZATION OF INFORMATION (^)

TED 4800 LEADERSHIP AND MANAGEMENT IN LIBRARIES (\*\*)

TED 4570 LIBRARY SCIENCE CAPSTONE (^)

### **Required third content block 15**

### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

# Media Communication Concentration

## Bachelor of Multidisciplinary Studies, Concentration Required - Media Communication Concentration Requirements

**Code Title Credits**

### **GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-" required

### **Fundamental Skills 15**

#### **Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

#### **Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

### **Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

### **Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### **Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### **Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### **MAJOR REQUIREMENTS - 51 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### **All of the following 6**

MLTI 3000 MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)

MLTI 4000 MULTIDISCIPLINARY CAPSTONE SEMINAR (^)

### **Media Communication Concentration Requirements – 30 Hours**

### **All of the following 6**

JMC 1500 INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION (\*\* ^)

JMC 2200 MEDIA PRODUCTION PRINCIPLES (^)

### **Additional hours from Journalism and Media Communication (JMC). Up to 9 hours in coursework from Communication Studies (CMST) or other relevant content areas may count toward degree requirements with approval 24**

**Required third content block 15**

### **ELECTIVES**

Elective hours as required to reach a total of 120 hours

# Management Information Systems Concentration

## Bachelor of Multidisciplinary Studies, Concentration Required - Management Information Systems Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |           |
| <b>Management Information Systems Concentration Requirements – 30 Hours</b>   |   |           |
| <b>All of the following</b>   |   | <b>27</b> |
| CIST 1300   | INTRODUCTION TO WEB DEVELOPMENT (^)                     |           |

|   |   |           |
|---|---|-----------|
| CIST 1400   | INTRODUCTION TO COMPUTER SCIENCE I (^)            |           |
| CIST 2100   | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (** ^) |           |
| ISQA 3310   | MANAGING THE DATABASE ENVIRONMENT (^)             |           |
| ISQA 3400   | INFORMATION TECHNOLOGY INFRASTRUCTURE (^)         |           |
| ISQA 3900   | WEB APPLICATION DEVELOPMENT (^)                   |           |
| ISQA 3910   | INTRODUCTION TO PROJECT MANAGEMENT (^)            |           |
| ISQA 4110   | INFORMATION SYSTEMS ANALYSIS (^)                  |           |
| ISQA 4120   | SYSTEM DESIGN AND IMPLEMENTATION (^)              |           |
| <b>An additional course from any IS&amp;T department (ACMP, AIML, BIOI, CIST, CSCI, CYBR, ISQA)</b> |   | <b>3</b>  |
| <b>Required third content block</b>   |   | <b>15</b> |
| <b>ELECTIVES</b>  |   |           |
| Elective hours as required to reach a total of 120 hours  |   |           |

# Nonprofit Administration Concentration

## Bachelor of Multidisciplinary Studies, Concentration Required - Nonprofit Administration Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |



|   |   |
|---|---|
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>                           | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.                               |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>                         |   |
| **Course will satisfy UNO's General Education requirement             |   |
| ^Course requires pre-requisite(s)                                     |   |
| <b>All of the following</b>   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)                   |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                      |
| <b>Nonprofit Administration Concentration Requirements – 30 Hours</b> |   |
| <b>All of the following</b>   | <b>18</b>   |
| PA 2170   | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                  |
| PA 3500   | NONPROFIT ORGANIZATIONS AND MANAGEMENT (^)                  |
| PA 3600   | PERSONNEL AND VOLUNTEER MANAGEMENT IN NONPROFITS (^)        |
| PA 3700   | FINANCIAL MANAGEMENT FOR NONPROFITS (^)                     |
| PA 4100   | MARKETING IN PUBLIC, NON-PROFIT AND AVIATION ORGANIZATIONS  |
| PA 4500   | NONPROFIT FUNDRAISING (^)                                   |
| <b>Select four courses from the following:</b>                        | <b>12</b>   |
| PA 2000   | LEADERSHIP & ADMINISTRATION (**)                            |
| PA 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| PA 3200   | PROGRAM PLANNING AND EVALUATION (^)                         |
| PA 4210   | INTRODUCTION TO HEALTH CARE SYSTEMS                         |
| PA 4300   | SEMINAR IN PUBLIC POLICY (^)                                |
| PA 4390   | PUBLIC BUDGETING  |
| PA 4440   | ORGANIZATIONAL DEVELOPMENT AND CHANGE                       |
| PA 4530   | STRATEGIC PLANNING (^)                                      |
| PA 4950   | INTERNSHIP (^)  |
| UBNS 1010   | INTRODUCTION TO URBAN STUDIES                               |
| <b>Required third content block</b>                                   | <b>15</b>   |
| <b>ELECTIVES</b>  |   |
| Elective hours as required to reach a total of 120 hours              |   |

## Organizational Development Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Organizational Development Concentration Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of "C-" required                                  |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |

|   |   |
|---|---|
| <b>Writing – 6 hrs.</b>   |   |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |
| <b>Oral Communication – 3 hrs.</b>  |   |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |
| STAT 1530   | ELEMENTARY STATISTICS                                   |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following</b>   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |
| <b>Organizational Development Concentration Requirements – 30 Hours</b>   |   |
| <b>All of the following</b>   | <b>15</b>   |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                   |
| MGMT 4030   | HUMAN RESOURCE MANAGEMENT (^)                           |
| PSYC 4630   | ORGANIZATIONAL PSYCHOLOGY (^)                           |
| PSYC 4640   | PERSONNEL PSYCHOLOGY (^)                                |
| CMST 4170   | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP             |
| <b>Select Focus</b>   | <b>15</b>   |
| <b>Organizational Operations</b>  |   |
| CMST 3520   | INTERVIEWING  |
| CMST 4180   | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS    |
| MGMT 4010   | TOTAL REWARDS   |
| Additional 6 hours of coursework related to organizational operations.  |   |
| <b>Training &amp; Development</b>   |   |
| CMST 4150   | ORGANIZATIONAL TRAINING AND DEVELOPMENT                 |

|   |  |
|---|--|
| CMST 4160   | COMMUNICATION FOR INSTRUCTIONAL SETTINGS |
| MGMT 4120   | TALENT DEVELOPMENT                       |
| Additional 6 hours of coursework related to training and development. |  |
| <b>Required third content block</b>                                   |  |
| <b>15</b>   |  |
| <b>ELECTIVES</b>  |  |
| Elective hours as required to reach a total of 120 hours              |  |

## Philosophy Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Philosophy Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |           |

|   |                                  |           |
|---|----------------------------------|-----------|
| <b>Philosophy Concentration Requirements – 30 Hours</b>                                   |                                  |           |
| <b>Critical Reasoning</b>   |                                  |           |
| <b>Select one of the following:</b>   |                                  | <b>3</b>  |
| PHIL 1210   | CRITICAL REASONING (**)          |           |
| PHIL 2010   | SYMBOLIC LOGIC                   |           |
| <b>Ethics</b>   |                                  |           |
| <b>Select one of the following:</b>   |                                  | <b>3</b>  |
| PHIL 1020   | CONTEMPORARY MORAL PROBLEMS (**) |           |
| PHIL 2030   | INTRODUCTION TO ETHICS (**)      |           |
| PHIL 2300   | BIOMEDICAL ETHICS                |           |
| <b>The following course:</b>  |                                  | <b>3</b>  |
| PHIL 3000   | PHILOSOPHY WRITING SEMINAR (^)   |           |
| <b>21 hours from the Department of Philosophy (PHIL); of which 9 hours is upper level</b> |                                  | <b>21</b> |
| <b>Required third content block</b>   |                                  | <b>15</b> |
| <b>ELECTIVES</b>  |                                  |           |
| Elective hours as required to reach a total of 120 hours                                  |                                  |           |

## Political Science Concentration

### Bachelor of Multidisciplinary Studies, Concentration Required - Political Science Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |

|  |   |
|--|---|
| Arts – 3 hrs.  |   |
| <b>Individual and Social Responsibility</b>  | <b>6</b>  |
| Cultural Knowledge – 3 hrs.  |   |
| Civic Knowledge and Engagement – 3 hrs.  |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>  |   |
| **Course will satisfy UNO's General Education requirement  |   |
| ^Course requires pre-requisite(s)  |   |
| <b>All of the following</b>  | <b>6</b>  |
| MLTI 3000  | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)         |
| MLTI 4000  | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)            |
| <b>Political Science Concentration Requirements – 30 Hours</b>   |   |
| <b>All of the following</b>  | <b>15</b>   |
| PSCI 1100  | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**) |
| PSCI 2000  | INTRODUCTION TO POLITICAL INQUIRY AND WRITING (^) |
| PSCI 2210  | INTRODUCTION TO INTERNATIONAL RELATIONS (**)      |
| PSCI 2310  | INTRODUCTION TO POLITICAL THOUGHT (**)            |
| PSCI 2500  | INTRODUCTION TO COMPARATIVE POLITICS (**)         |
| PSCI 4950  | SENIOR ASSESSMENT IN POLITICAL SCIENCE (^)        |
| <b>Additional hours from the Department of Political Science (PSCI). Up to 9 hours outside of the Political Science Department may count toward degree requirement with approval</b> | <b>15</b>   |
| <b>Required third content block</b>  | <b>15</b>   |
| <b>ELECTIVES</b>   |   |
| Elective hours as required to reach a total of 120 hours   |   |

## Psychology Concentration Bachelor of Multidisciplinary Studies, Concentration Required - Psychology Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |

|   |   |
|---|---|
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                        |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                     |
| STAT 1530   | ELEMENTARY STATISTICS                               |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of following</b>   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)              |
| <b>Psychology Concentration Requirements – 30 Hours</b>   |   |
| <b>The following course:</b>  | <b>3</b>  |
| PSYC 1010   | INTRODUCTION TO PSYCHOLOGY I (**)                   |
| <b>Select one course from each of the three areas below</b>   |   |
| <b>Applied Psychology</b>   |   |
| PSYC 3510   | EDUCATIONAL PSYCHOLOGY (^)                          |
| PSYC 4020   | LEARNING (^)  |
| PSYC 4310   | PSYCHOLOGICAL AND EDUCATIONAL TESTING (^)           |
| PSYC 4110   | POLITICAL PSYCHOLOGY (^)                            |
| PSYC 4510   | PSYCHOLOGY IN THE SCHOOLS (^)                       |
| PSYC 4560   | FORENSIC PSYCHOLOGY (^)                             |
| PSYC 4630   | ORGANIZATIONAL PSYCHOLOGY (^)                       |
| PSYC 4640   | PERSONNEL PSYCHOLOGY (^)                            |
| PSYC 4650   | CREATIVITY AND INNOVATION IN ORGANIZATIONS          |
| <b>Social/Personality/Developmental Psychology</b>  |   |
| PSYC 3450   | SOCIAL PSYCHOLOGY (^)                               |
| PSYC 3520   | CHILD PSYCHOLOGY (^)                                |
| PSYC 3540   | ADOLESCENT PSYCHOLOGY (^)                           |
| PSYC 4450   | PERSONALITY THEORIES (^)                            |
| PSYC 4460   | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)       |
| <b>Mental Health</b>  |   |
| PSYC 3410   | CLINICAL PSYCHOLOGY (^)                             |
| PSYC 3430   | PERSONALITY AND ADJUSTMENT (^)                      |
| PSYC 4440   | ABNORMAL PSYCHOLOGY (^)                             |
| PSYC 4470   | MENTAL HEALTH AND AGING (^)                         |
| PSYC 4590   | PSYCHOLOGY OF EXCEPTIONAL CHILDREN (^)              |
| PSYC 4680   | POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (^)       |

|   |  |           |
|---|--|-----------|
| PSYC 4800   | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (^) |           |
| <b>Additional hours to be selected from the Department of Psychology (PSYC)</b> |  | <b>18</b> |
| <b>Required third content block</b>   |  | <b>15</b> |
| <b>ELECTIVES</b>  |  |           |
| Elective hours as required to reach a total of 120 hours                        |  |           |

## Sociology Concentration Bachelor of Multidisciplinary Studies, Concentration Required - Sociology Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 51 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following</b>   |   | <b>6</b>  |
| MLTI 3000   | MULTIDISCIPLINARY FOUNDATIONS SEMINAR (^)               |           |
| MLTI 4000   | MULTIDISCIPLINARY CAPSTONE SEMINAR (^)                  |           |
| <b>Sociology Concentration Requirements – 30 Hours</b>  |   |           |

|   |           |
|---|-----------|
| <b>30 hours in Sociology (SOC). Up to 9 hours in Anthropology (ANTH) or related coursework outside of the Sociology &amp; Anthropology Department may count toward degree requirements with approval.</b> | <b>30</b> |
| <b>Required third content block</b>   | <b>15</b> |
| <b>ELECTIVES</b>  |           |
| Elective hours as required to reach a total of 120 hours  |           |

## Emergency Management and Disaster Science

### Degree and Certificate Options:

- Earn a Bachelor of Science in Emergency Management, a comprehensive degree that prepares you for a career in emergency services and administration.
- Enhance your skills with minors in:
  - Emergency Management
  - Fire Service Management
  - Tribal Management and Emergency Services
- or boost your credentials with an undergraduate certificate in Tribal Management and Emergency Services

#### Why Choose Our Program?

- Developed by experts: Our program was created by an interdisciplinary team of faculty and community leaders from diverse backgrounds, ensuring a well-rounded education.
- Relevant and in-demand: Our curriculum addresses the growing need for Emergency Management professionals in government, business, and non-profit sectors.
- Prepare for a rewarding career: Gain the knowledge and skills to make a difference in emergency services, disaster response, and community resilience.
- The curriculum developed is intended to provide an education that encompasses the broad array of knowledge and experience necessary to conduct emergency services and emergency administration, and to meet the demand for Emergency Management professionals at the federal, state, and local government levels, in the business community, and within the nonprofit organizations active in disasters.

## The Mission of Emergency Management and Disaster Science is to:

- Develop student talents, wisdom, and experiences in a supportive yet demanding academic environment that prepares them for a personally rewarding successful professional career in Emergency Management.
- Initiate and lead superior research initiatives while supporting continuous improvements in efficiency, reliability, safety, and sustainability for provision of emergency services in the State of Nebraska and beyond.
- Foster cooperative relationships with neighboring communities, state and federal agencies, and private enterprise through collaborative education, training, and service projects that enhance performance and productivity.
- Set, preserve, and promote the utmost standards of honesty, integrity, and transparency through the teaching of and adherence to ethical conduct and open dialogue while ensuring good stewardship and management of program resources

#### Transfer Credit

Sixty-four credit hours from regionally accredited two-year institutions may be applied toward the degree. Twelve credit hours of American Council on Education (ACE) approved military credit may be applied toward electives in the BSEM degree. Credit from an institution that is not regionally accredited cannot be applied to the BSEM degree.

## Fast Track

The School of Public Administration has developed a Fast-Track program for highly qualified and motivated students providing the opportunity to complete a master's degree in an accelerated time frame. Students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the Master's degree in Urban Studies, or the Master's degree in Public Administration.

- Students should have senior status and must be within at least 30 undergraduate credits yet to complete their undergraduate degree. Exceptional students who do not meet this requirement may be considered.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast-Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor and consult with the graduate advisor prior to enrollment in one of the courses listed below.
- A minimum cumulative GPA of 3.5 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - For this program, if students maintain at least a grade of B+ in courses taken, they will be recommended for admission to the MSUS or MPA program.
  - The admit term must be after the completion term of the undergraduate degree.

The following MS in Urban Studies courses may be taken under the Fast-Track program:

- BLST 8886, Seminar on Black Leadership
- UBNS 8000, Seminar in Urban Studies
- UBNS 8060, Introduction to Urban Planning
- UBNS 8020, Race, Ethnicity and American Urban Culture\*\*
- UBNS 8200, Community Organizing and Development\*\*
- PA 8010, The Public Economy (Must have completed or be concurrently enrolled in UBNS 8000)

The following MPA courses may be taken under the Fast-Track program:

- PA 8050, Foundations of Public Service
- PA 8090, Organizational Theory and Behavior
- PA 8100, Advanced Management and Leadership for Public and Nonprofit Organizations (Note: This course may only be taken if both PA 8050 and PA 8090 are completed).

## Academic Advising

Academic Advising is provided for all students. The program recommends advising each semester to ensure degree completion. The academic advisor

assists students with goal setting, degree planning, course scheduling, addressing any questions or concerns regarding major/minor, academic performance, and/or policies and procedures. The faculty in Emergency Management and Disaster Science are also available to speak with students regarding careers and mentoring. To contact an advisor, visit 114 CPACS, email [unoemgt@unomaha.edu](mailto:unoemgt@unomaha.edu), or call 402.554.4900.

## Student Group

Emergency Management Student Association (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/emergency-management-and-disaster-science/student-internships/>)

## Contact

Emergency Management and Disaster Science is located in the College of Public Affairs and Community Service in room 114. The office can be reached by phone at 402.554.4900 or by email at [unoemgt@unomaha.edu](mailto:unoemgt@unomaha.edu).

Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/emergency-services-program/>)

## Admissions

Readmit students and students wishing to transfer from another institution or department within the University of Nebraska must have a 2.5 cumulative grade point average. Students with a GPA of 2.0 to 2.49 may be admitted to the Pre-Emergency Management program. Once students have achieved a 2.5 cumulative grade point average or better, they will be admitted to the BSEM program.

## Degrees Offered

- Emergency Management (BSEM), Bachelor of Science (p. 734)

## Minors Offered

- Emergency Management Minor (p. 746)
- Fire Service Management Minor (p. 747)
- Tribal Management and Emergency Services Minor (p. 747)

## Certificates Offered:

- Tribal Management and Emergency Services Certificate (p. 747)

Emergency Management is the profession of individuals who focus on helping communities prior to, during, and following natural and manmade disasters to minimize risk and vulnerability. Emergency Managers plan and direct disaster response or crisis management activities, provide disaster preparedness training, and prepare emergency plans and procedures for natural (tornadoes, floods) and manmade (technological, terrorism) disasters, as well as public health epidemics. Our program meets the demand for professionals at the federal, state, and local levels, and the business community.

Emergency Managers can work in many different industries including federal, state, county, and city governments, educational institutions, hospitals and public health agencies, nonprofits and community/international relief organizations, private industry, transportation, the military, and many others.

- Disaster Recovery Manager
- Emergency Management Specialist
- Emergency Management Coordinator
- Emergency Preparedness Specialist
- Emergency Response Coordinator
- Emergency Services Director



- Safety Manager
- Public Information Officer

## Aviation Administration

- Federal Aviation Administration (FAA)
- Airport Security
- Commercial Aviation Companies
- Department of Transportation

## Criminology and Criminal Justice

- Law Enforcement Officer
- Federal Agencies such as the FBI, ATF, DIA, DHS, etc.
- Corrections
- Homeland Security Officer
- Security Director

## Fire Service Management

- City Firefighter
- Wildland Firefighter
- Commend Level Supervisor
- Fire Prevention Specialist

## Geospatial Science

- Search and Rescue
- GIS Administrator, Analyst, Coordinator, or Manager
- Transportation Planner
- Data Collection for Drones

## Gerontology

- Public Policy and Education
- Hospitals, Nursing and Assisted Living Homes
- Housing and Home Modification
- Evacuation Specialist

## Information Technology and Communication

- Emergency Communication Specialist
- Information Security Analyst
- Information Security Director

## Intelligence and Security

- Intelligence Analyst
- State, Federal and Local Government: FBI, CIA, DIA, DHS
- Military Intelligence

## Logistics Management

- Logistics Engineer
- Transportation Manager
- Distribution Manager
- Transportation companies

## Natural Disasters

- Environmental Protection Specialist
- Urban/Regional Planner
- Soil and Water Conservationist

## Nonprofit Management

- Volunteer Coordinator/Manager
- Community Development Planner/Director
- Grant/Fundraising Manager

## Planning and Preparing for Urban Hazards

- Urban/Regional Planner
- Community Development Planner
- Housing Department Specialist

## Private Sector Management

- Business Continuity Planner
- Emergency Preparedness Planner
- Media Communications Specialist

## Public Administration and Management

- City, Urban and Regional Planning
- City/County Government
- Policy/Budget Analyst
- School/University Emergency Manager

## Public Health

- Public Health Preparedness
- Community Health Education Specialist
- Biopreparedness Coordinator
- Public Health Specialist
- Hospital/Public Health Administrators
- Hospital Emergency Preparedness Coordinator

## Tribal Management and Emergency Services

- Tribal Emergency Manager
- Tribal Government
- Tribal Law

## Unmanned Aircraft Systems (Drones)

- Unmanned Aircraft Systems Pilot
- Unmanned Aircraft Systems Operator
- Unmanned Aircraft Systems Management

## Emergency Management (BSEM), Bachelor of Science

The Bachelor of Science in Emergency Management includes an interdisciplinary curriculum focusing on emergency management. The core coursework provides an overview of emergency management and the concentration areas sharpen student exposure to key areas of concern for disaster preparedness, hazard mitigation, response, and recovery. A minimum cumulative GPA of 2.0 is required to graduate.

The program prepares students academically for all levels of government employment as well as in nonprofit and private companies. Students will

become adept at performing risk management, emergency preparedness planning and mitigation to support continuity of operations (COO), and sustainability of communities. Students will gain a thorough understanding of interagency cooperation, public/private partnership coordination, and communication as well as administrative issues involving policies and procedures, labor relations, and fiscal matters.

## Emergency Management, Bachelor of Science in Emergency Management Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                 |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING   |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                     |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS       |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                              |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                           |           |
| STAT 1530   | ELEMENTARY STATISTICS                                     |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 60 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following Emergency Management Courses</b>  |   | <b>30</b> |
| Minimum of "C-" required  |   |           |
| EMGT 1000   | INTRODUCTION TO EMERGENCY MANAGEMENT (**)                 |           |
| EMGT 2020   | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)     |           |
| EMGT 2050   | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^) |           |
| PA 2170   | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                |           |

|  |  |           |
|--|--|-----------|
| PA/SOWK/CRCJ<br>3000                                     | APPLIED STATISTICS AND DATA<br>PROCESSING IN PUBLIC SECTOR (^) |           |
| EMGT 3040  | PREPAREDNESS/PLANNING AND RISK<br>MITIGATION (^)               |           |
| EMGT 3080  | AGENCY COLLABORATION DURING<br>DISASTERS (^)                   |           |
| EMGT 4060  | DISASTER RESPONSE AND RECOVERY (^)                             |           |
| EMGT 4200  | INTERNSHIP IN EMERGENCY<br>MANAGEMENT (^)                      |           |
| EMGT 4990  | CAPSTONE PROJECT IN EMERGENCY<br>MANAGEMENT (^)                |           |
| <b>Select Two 15-hour Areas of Concentration</b>         |  | <b>30</b> |
| Criminology and Criminal Justice                         |  |           |
| Fire Service Management                                  |  |           |
| Geospatial Science                                       |  |           |
| Information Technology and Communication                 |  |           |
| Intelligence and Security                                |  |           |
| Logistics Management                                     |  |           |
| Natural Disasters  |  |           |
| Planning and Preparing for Urban Hazards                 |  |           |
| Private Sector Management                                |  |           |
| Public Administration and Management                     |  |           |
| Tribal Management and Emergency Services                 |  |           |
| <b>ELECTIVES</b>   |  |           |
| Elective hours as required to reach a total of 120 hours |  |           |

## Emergency Management (BSEM), Bachelor of Science Concentrations

- Criminology and Criminal Justice (p. 736)
- Fire Service Management (p. 737)
- Geospatial Science (p. 738)
- Information Technology and Communication (p. 739)
- Intelligence and Security (p. 740)
- Logistics Management (p. 741)
- Natural Disasters (p. 742)
- Planning and Preparing for Urban Hazards (p. 743)
- Private Sector Management (p. 744)
- Public Administration and Management (p. 745)
- Tribal Management and Emergency Services (p. 746)
- 
- \*\*In some instances, a minor may satisfy one of the required concentration areas with department's approval."

## Emergency Management, Bachelor of Science in Emergency Management Four Year Plan

| <b>Freshman</b>               |                                      |                |
|-------------------------------|--------------------------------------|----------------|
| <b>Fall</b>                   |                                      | <b>Credits</b> |
| EMGT 1000                     | INTRODUCTION TO EMERGENCY MANAGEMENT | 3              |
| General Education or Elective |                                      | 3              |
| General Education or Elective |                                      | 3              |
| General Education or Elective |                                      | 3              |

|                               |   |           |
|-------------------------------|---|-----------|
| General Education or Elective |   | 3         |
| <b>Credits</b>                |   | <b>15</b> |
| <b>Spring</b>                 |   |           |
| General Education or Elective |   | 3         |
| General Education or Elective |   | 3         |
| General Education or Elective |   | 3         |
| General Education or Elective |   | 3         |
| General Education or Elective |   | 4         |
| <b>Credits</b>                |   | <b>16</b> |
| <b>Sophomore</b>              |   |           |
| <b>Fall</b>                   |   |           |
| EMGT 2020                     | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION       | 3         |
| PA 2170                       | INTRODUCTION TO PUBLIC ADMINISTRATION                   | 3         |
| General Education or Elective |   | 3         |
| Concentration 1 <sup>1</sup>  |   | 3         |
| Elective                      |   | 3         |
| <b>Credits</b>                |   | <b>15</b> |
| <b>Spring</b>                 |   |           |
| EMGT 2050                     | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES   | 3         |
| PA 3000                       | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR | 3         |
| Concentration 2               |   | 3         |
| General Education or Elective |   | 3         |
| Elective Course               |   | 3         |
| <b>Credits</b>                |   | <b>15</b> |
| <b>Junior</b>                 |   |           |
| <b>Fall</b>                   |   |           |
| EMGT 3040                     | PREPAREDNESS/PLANNING AND RISK MITIGATION               | 3         |
| Concentration 1               |   | 3         |
| Concentration 2               |   | 3         |
| Elective Course               |   | 3         |
| Elective Course               |   | 3         |
| <b>Credits</b>                |   | <b>15</b> |
| <b>Spring</b>                 |   |           |
| EMGT 3080                     | AGENCY COLLABORATION DURING DISASTERS                   | 3         |
| Concentration 1               |   | 3         |
| Concentration 2               |   | 3         |
| Elective Course               |   | 3         |
| Elective Course               |   | 3         |
| <b>Credits</b>                |   | <b>15</b> |
| <b>Senior</b>                 |   |           |
| <b>Fall</b>                   |   |           |
| EMGT 4060                     | DISASTER RESPONSE AND RECOVERY                          | 3         |
| General Education or Elective |   | 3         |
| Concentration 1               |   | 3         |
| Concentration 2               |   | 3         |
| Elective Course               |   | 3         |
| <b>Credits</b>                |   | <b>15</b> |
| <b>Spring</b>                 |   |           |
| EMGT 4990                     | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT                | 3         |
| EMGT 4200                     | INTERNSHIP IN EMERGENCY MANAGEMENT                      | 3         |

|                      |            |
|----------------------|------------|
| Concentration 1      | 3          |
| Concentration 2      | 3          |
| Elective Course      | 2          |
| <b>Credits</b>       | <b>14</b>  |
| <b>Total Credits</b> | <b>120</b> |

<sup>1</sup> For more information on Concentration requirements, please see academic advisor.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

#### GPA Requirements:

- A 2.0 GPA is required to graduate.
- Grades of C- or better are required for general education, major and concentration courses.

#### Graduation Requirements:

- 120 credit hours with a cumulative GPA of 2.0 or better
- 30 of the last 36 hours must be UNO courses

## Criminology and Criminal Justice Concentration

### Emergency Management, Bachelor of Science in Emergency Management - Criminology and Criminal Justice Concentration Requirements

| Code  | Title | Credits   |
|---|-------|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |           |
| Minimum of "C-" required                                  |       |           |
| <b>Fundamental Skills</b>                                 |       | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |       |           |

|   |   |
|---|---|
| ENGL 1150   | ENGLISH COMPOSITION I                                       |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                   |
| <b>Oral Communication – 3 hrs.</b>  |   |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                       |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                    |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING     |
| or MATH 1130  | QUANTITATIVE LITERACY                                       |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS         |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                                |
| <b>Data Literacy – 3 hrs.</b>   |   |
| Select one from the following:  |   |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                             |
| STAT 1530   | ELEMENTARY STATISTICS                                       |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |
| <b>Breadth of Knowledge</b>   | <b>13</b>   |
| Social Science – 3 hrs.   |   |
| Humanities – 3 hrs.   |   |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |
| Arts – 3 hrs.   |   |
| <b>Individual and Social Responsibility</b>   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |
| Civic Knowledge and Engagement – 3 hrs.   |   |
| <b>MAJOR REQUIREMENTS - 60 Hours Required</b>   |   |
| **Course will satisfy UNO's General Education requirement   |   |
| ^Course requires pre-requisite(s)   |   |
| <b>All of the following Emergency Management Courses</b>  | <b>30</b>   |
| Minimum of "C-"required   |   |
| EMGT 1000   | INTRODUCTION TO EMERGENCY MANAGEMENT (**)                   |
| EMGT 2020   | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)       |
| EMGT 2050   | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^)   |
| PA 2170   | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                  |
| PA/SOWK/CRCJ 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| EMGT 3040   | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)               |
| EMGT 3080   | AGENCY COLLABORATION DURING DISASTERS (^)                   |
| EMGT 4060   | DISASTER RESPONSE AND RECOVERY (^)                          |
| EMGT 4200   | INTERNSHIP IN EMERGENCY MANAGEMENT (^)                      |
| EMGT 4990   | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)                |
| <b>Criminology and Criminal Justice Concentration Courses</b>   | <b>15</b>   |
| CRCJ 1010   | CRIME TO COURTROOM: THE JUSTICE JOURNEY (**)                |
| <b>Select one from the following:</b>   |   |
| CRCJ 2030   | POLICE AND SOCIETY (^)                                      |
| CRCJ 2110   | CRIMINAL COURT SYSTEM (^)                                   |
| CRCJ 2210   | SURVEY OF CORRECTIONS (^)                                   |

|   |                                 |
|---|---------------------------------|
| CRCJ 2220   | COMMUNITY-BASED CORRECTIONS (^) |
| <b>Select 3 courses from the Upper-Level (3000/4000) Criminology and Criminal Justice (excluding CRCJ 3000 and CRCJ 3100)</b> |                                 |
| <b>Additional 15-hour Concentration Area</b>  | <b>15</b>                       |
| Fire Service Management   |                                 |
| Geospatial Science  |                                 |
| Information Technology and Communication  |                                 |
| Intelligence and Security   |                                 |
| Logistics Management  |                                 |
| Natural Disasters   |                                 |
| Planning and Preparing for Urban Hazards  |                                 |
| Private Sector Management   |                                 |
| Public Administration and Management  |                                 |
| Tribal Management and Emergency Services  |                                 |
| <b>ELECTIVES</b>  |                                 |
| Elective hours as required to reach a total of 120 hours  |                                 |

## Fire Service Management Concentration

### Emergency Management, Bachelor of Science in Emergency Management - Fire Service Management Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 60 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following Emergency Management Courses 30**

Minimum of "C-"required

|                   |   |
|-------------------|---|
| EMGT 1000         | INTRODUCTION TO EMERGENCY MANAGEMENT (**)                   |
| EMGT 2020         | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)       |
| EMGT 2050         | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^)   |
| PA 2170           | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                  |
| PA/SOWK/CRCJ 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| EMGT 3040         | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)               |
| EMGT 3080         | AGENCY COLLABORATION DURING DISASTERS (^)                   |
| EMGT 4060         | DISASTER RESPONSE AND RECOVERY (^)                          |
| EMGT 4200         | INTERNSHIP IN EMERGENCY MANAGEMENT (^)                      |
| EMGT 4990         | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)                |

**Fire Service Management Concentration Courses 15**

|           |   |
|-----------|---|
| FSMT 2200 | CODES AND INSPECTIONS (^)                                 |
| FSMT 2410 | STRATEGIES AND TACTICS IN FIRE AND EMERGENCY SERVICES (^) |
| FSMT 3350 | FIRE PREVENTION, ORGANIZATION, AND MANAGEMENT (^)         |
| FSMT 3680 | ANALYTICAL APPROACHES TO PUBLIC FIRE PROTECTION (^)       |
| FSMT 4450 | FIRE AND EMERGENCY SERVICES ADMINISTRATION (^)            |

**Additional 15-hour Concentration Area 15**

|  |
|--|
| Criminology and Criminal Justice         |
| Geospatial Science                       |
| Information Technology and Communication |
| Intelligence and Security                |
| Logistics Management                     |
| Natural Disasters                        |
| Planning and Preparing for Urban Hazards |
| Private Sector Management                |
| Public Administration and Management     |
| Tribal Management and Emergency Services |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Geospatial Science Concentration

### Emergency Management, Bachelor of Science in Emergency Management - Geospatial Science Requirements

**Code Title Credits**  
**GENERAL EDUCATION REQUIREMENTS - 34 Hours Required**

Minimum of "C-"required

**Fundamental Skills 15**

**Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 60 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following Emergency Management Courses 30**

Minimum of "C-"required

|                   |   |
|-------------------|---|
| EMGT 1000         | INTRODUCTION TO EMERGENCY MANAGEMENT (**)                   |
| EMGT 2020         | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)       |
| EMGT 2050         | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^)   |
| PA 2170           | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                  |
| PA/SOWK/CRCJ 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |



|           |   |
|-----------|---|
| EMGT 3040 | PREPAREDNESS/PLANNING AND RISK MITIGATION (^) |
| EMGT 3080 | AGENCY COLLABORATION DURING DISASTERS (^)     |
| EMGT 4060 | DISASTER RESPONSE AND RECOVERY (^)            |
| EMGT 4200 | INTERNSHIP IN EMERGENCY MANAGEMENT (^)        |
| EMGT 4990 | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)  |

#### Geospatial Science Concentration Courses 15

##### Select one course from the following

|           |                                      |
|-----------|--------------------------------------|
| GEOG 1000 | WORLD REGIONAL GEOGRAPHY (**)        |
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY (**) |
| GEOL 1010 | ENVIRONMENTAL GEOLOGY (**)           |

##### Select one course from the following

|           |   |
|-----------|---|
| GEOG 1030 | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**) |
| GEOG 1050 | HUMAN-ENVIRONMENT GEOGRAPHY (**)                            |
| GEOG 1090 | INTRODUCTION TO GEOSPATIAL SCIENCES (** ^)                  |

##### Select courses from the following to reach a 15-hour minimum

|              |   |
|--------------|---|
| GEOG 3530    | CARTOGRAPHY AND DATA VISUALIZATION (^)  |
| or GEOG 3540 | FUNDAMENTALS OF GEOSPATIAL DATA SCIENCE |
| GEOG 4020    | SPATIAL ANALYSIS IN GEOGRAPHY (^)       |
| GEOG 4030    | COMPUTER MAPPING AND VISUALIZATION (^)  |
| GEOG 4050    | GEOGRAPHIC INFORMATION SYSTEMS I (^)    |
| GEOG 4630    | ENVIRONMENTAL REMOTE SENSING (^)        |
| GEOG 4660    | GEOGRAPHIC INFORMATION SYSTEMS II (^)   |

#### Additional 15-hour Concentration Area 15

|  |
|--|
| Criminology and Criminal Justice         |
| Fire Service Management                  |
| Information Technology and Communication |
| Intelligence and Security                |
| Logistics Management                     |
| Natural Disasters                        |
| Planning and Preparing for Urban Hazards |
| Private Sector Management                |
| Public Administration and Management     |
| Tribal Management and Emergency Services |

#### ELECTIVES

Elective hours as required to reach a total of 120 hours

## Information Technology and Communication Concentration

### Emergency Management, Bachelor of Science in Emergency Management - Information Technology and Communication Requirements

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

#### GENERAL EDUCATION REQUIREMENTS -34 Hours Required

Minimum of "C-"required

#### Fundamental Skills 15

##### Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

##### Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

##### Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

##### Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

#### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

#### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

#### MAJOR REQUIREMENTS - 60 Hours Required

\*\*Course will satisfy UNO' General Education requirement

^Course requires pre-requisite(s)

#### All of the following Emergency Management Courses 30

Minimum of "C-"required

EMGT 1000 INTRODUCTION TO EMERGENCY MANAGEMENT (\*\*)

EMGT 2020 EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)

EMGT 2050 POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^)

|   |   |
|---|---|
| PA 2170   | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                  |
| PA/SOWK/CRCJ 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| EMGT 3040   | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)               |
| EMGT 3080   | AGENCY COLLABORATION DURING DISASTERS (^)                   |
| EMGT 4060   | DISASTER RESPONSE AND RECOVERY (^)                          |
| EMGT 4200   | INTERNSHIP IN EMERGENCY MANAGEMENT (^)                      |
| EMGT 4990   | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)                |
| <b>Information Technology and Communication Concentration Courses</b> |   |
| CYBR 1100   | INTRODUCTION TO INFORMATION SECURITY (**)                   |
| CIST 2100   | ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (** ^)           |
| ISQA 3420   | MANAGING IN A DIGITAL WORLD (^)                             |
| <b>Select 2 from the following:</b>                                   |   |
| CIST 3110   | INFORMATION TECHNOLOGY ETHICS (** ^)                        |
| ISQA 3910   | INTRODUCTION TO PROJECT MANAGEMENT (^)                      |
| CYBR 3600   | CYBERSECURITY POLICY AND AWARENESS (^)                      |
| CYBR 4360   | PRINCIPLES OF SECURE SYSTEM DESIGN (^)                      |
| ISQA 3310   | MANAGING THE DATABASE ENVIRONMENT (^)                       |
| ISQA 3400   | INFORMATION TECHNOLOGY INFRASTRUCTURE (^)                   |
| ISQA/ACMP 4880  | SYSTEMS SIMULATION AND MODELING (^)                         |
| <b>Additional 15-hour Concentration Area</b>                          |   |
| Criminology and Criminal Justice                                      |   |
| Fire Service Management   |   |
| Geospatial Science  |   |
| Intelligence and Security   |   |
| Logistics Management  |   |
| Natural Disasters   |   |
| Planning and Preparing for Urban Hazards                              |   |
| Private Sector Management   |   |
| Public Administration and Management                                  |   |
| Tribal Management and Emergency Services                              |   |
| <b>ELECTIVES</b>  |   |

Elective hours as required to reach a total of 120 hours

## Intelligence and Security Concentration

### Emergency Management, Bachelor of Science in Emergency Management - Intelligence and Security Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                 |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING   |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                     |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS       |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                              |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                           |           |
| STAT 1530   | ELEMENTARY STATISTICS                                     |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 60 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following Emergency Management Courses</b>  |   | <b>30</b> |
| Minimum of "C-"required   |   |           |
| EMGT 1000   | INTRODUCTION TO EMERGENCY MANAGEMENT (**)                 |           |
| EMGT 2020   | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)     |           |
| EMGT 2050   | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^) |           |
| PA 2170   | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                |           |

|   |   |
|---|---|
| PA/SOWK/CRCJ<br>3000  | APPLIED STATISTICS AND DATA<br>PROCESSING IN PUBLIC SECTOR (^)            |
| EMGT 3040   | PREPAREDNESS/PLANNING AND RISK<br>MITIGATION (^)                          |
| EMGT 3080   | AGENCY COLLABORATION DURING<br>DISASTERS (^)                              |
| EMGT 4060   | DISASTER RESPONSE AND RECOVERY (^)  |
| EMGT 4200   | INTERNSHIP IN EMERGENCY<br>MANAGEMENT (^)                                 |
| EMGT 4990   | CAPSTONE PROJECT IN EMERGENCY<br>MANAGEMENT (^)                           |
| <b>Intelligence and Security Concentration Courses</b>            |   |
| PSCI 2210   | INTRODUCTION TO INTERNATIONAL<br>RELATIONS (**)                           |
| PSCI 3260   | UNITED STATES FOREIGN POLICY (^)  |
| PSCI 4250   | INTELLIGENCE AND NATIONAL<br>SECURITY (^)                                 |
| <b>Select 2 courses, 1 at the upper-level from the following:</b> |   |
| PSCI 2500   | INTRODUCTION TO COMPARATIVE<br>POLITICS (**)                              |
| PSCI 3220   | DIPLOMACY AND INTERNATIONAL<br>PROBLEM SOLVING (^)                        |
| PSCI 3250   | GLOBAL SECURITY ISSUES (^)  |
| PSCI 3500   | EUROPEAN POLITICS (** ^)  |
| PSCI 3580   | GOVERNMENT AND POLITICS OF<br>RUSSIA AND THE POST-SOVIET STATES<br>(** ^) |
| PSCI 3640   | GOVERNMENT AND POLITICS OF CHINA<br>AND EAST ASIA (** ^)                  |
| PSCI/LLS 3680   | GOVERNMENT AND POLITICS OF LATIN<br>AMERICA (** ^)                        |
| PSCI 3700   | GOVERNMENT AND POLITICS OF THE<br>MIDDLE EAST (** ^)                      |
| PSCI 4200   | INTERNATIONAL RELATIONS OF EAST<br>ASIA (** ^)                            |
| PSCI 4210   | INTERNATIONAL RELATIONS OF THE<br>MIDDLE EAST (** ^)                      |
| PSCI 4240   | INTERNATIONAL CONFLICT<br>RESOLUTION (^)                                  |
| PSCI 4260   | INTERNATIONAL LAW (^)   |
| PSCI/ENVN 4270  | GLOBAL ENVIRONMENTAL POLITICS (^)   |
| PSCI/LLS 4280   | INTERNATIONAL RELATIONS OF LATIN<br>AMERICA (** ^)                        |
| PSCI 4620   | ISLAM AND POLITICS (** ^)   |
| PSCI 4500   | GOVERNMENT AND POLITICS OF GREAT<br>BRITAIN (^)                           |
| PSCI 4520   | POLITICS OF FRANCE (** ^)   |
| <b>Additional 15-hour Concentration Area</b>                      |   |
| Criminology and Criminal Justice                                  |   |
| Fire Service Management   |   |
| Geospatial Science  |   |
| Information Technology and Communication                          |   |
| Logistics Management  |   |
| Natural Disasters   |   |
| Planning and Preparing for Urban Hazards                          |   |
| Private Sector Management   |   |
| Public Administration and Management                              |   |
| Tribal Management and Emergency Services                          |   |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

**Logistics Management  
Concentration****Emergency Management,  
Bachelor of Science in  
Emergency Management  
- Logistics Management  
Requirements**

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours<br/>Required</b> |       |         |

Minimum of "C-" required

**Fundamental Skills** **15****Writing – 6 hrs.**

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND  
INFORMATION LITERACY**Oral Communication – 3 hrs.**

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

**Quantitative Literacy – 3 hrs.**MATH 1120 INTRODUCTION TO MATHEMATICAL  
AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE  
PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

**Data Literacy – 3 hrs.**

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an  
approved data literacy course, or any approved natural or  
social science general education course.**Breadth of Knowledge** **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility** **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 60 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following Emergency Management Courses** **30**

Minimum of "C-" required

EMGT 1000 INTRODUCTION TO EMERGENCY  
MANAGEMENT (\*\*)EMGT 2020 EMERGENCY MANAGEMENT  
STRATEGIES AND COMMUNICATION (^)

|   |   |
|---|---|
| EMGT 2050   | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^)   |
| PA 2170   | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                  |
| PA/SOWK/CRCJ 3000                                 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| EMGT 3040   | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)               |
| EMGT 3080   | AGENCY COLLABORATION DURING DISASTERS (^)                   |
| EMGT 4060   | DISASTER RESPONSE AND RECOVERY (^)                          |
| EMGT 4200   | INTERNSHIP IN EMERGENCY MANAGEMENT (^)                      |
| EMGT 4990   | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)                |
| <b>Logistics Management Concentration Courses</b> |   |
| <b>15</b>   |   |
| 2.5 GPA & C required                              |   |
| SCMT 3410   | INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (^)                 |
| SCMT 4380   | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT (^)          |
| <b>Select 3 from the following:</b>               |   |
| ACCT 2000   | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS (** ^)            |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (^)                              |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (^)                             |
| ECON 1200   | SURVEY OF ECONOMICS (** ^)                                  |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                      |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) (** ^)                      |
| MGMT 3490   | MANAGING PEOPLE AND ORGANIZATIONS (^)                       |
| SCMT 3000   | MANAGERIAL ACCOUNTING FOR SUPPLY CHAIN MANAGEMENT (^)       |
| SCMT 3500   | MANAGING OPERATIONS IN THE SUPPLY CHAIN (^)                 |
| SCMT 4060   | HEALTHCARE ANALYTICS FOR BUSINESS (^)                       |
| SCMT 4070   | INTERNATIONAL LOGISTICS MANAGEMENT (^)                      |
| SCMT/ISQA 4160                                    | ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING (^)        |
| SCMT 4170   | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT (^)              |
| SCMT 4330   | PROJECT MANAGEMENT (^)                                      |
| SCMT 4350   | GLOBAL SOURCING AND INNOVATION (^)                          |
| SCMT 4370   | SUPPLY CHAIN ANALYTICS (^)                                  |
| SCMT 4450   | MANAGERIAL NEGOTIATION STRATEGIES (^)                       |
| SCMT 4460   | SUPPLY CHAIN INTEGRATION (^)                                |
| SCMT 4540   | SUPPLY CHAIN MANAGEMENT INTERNSHIP (^)                      |
| <b>Additional 15-hour Concentration Area</b>      |   |
| <b>15</b>   |   |
| Criminology and Criminal Justice                  |   |
| Fire Service Management                           |   |
| Geospatial Science                                |   |
| Information Technology and Communication          |   |
| Intelligence and Security                         |   |

## Natural Disasters

Planning and Preparing for Urban Hazards

Private Sector Management

Public Administration and Management

Tribal Management and Emergency Services

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Natural Disasters Concentration

### Emergency Management, Bachelor of Science in Emergency Management - Natural Disasters Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-"required   |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 60 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following Emergency Management Courses</b>  |   | <b>30</b> |
| Minimum of "C-"required   |   |           |
| EMGT 1000   | INTRODUCTION TO EMERGENCY MANAGEMENT (**)               |           |

|  |   |
|--|---|
| EMGT 2020  | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)         |
| EMGT 2050  | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^)     |
| PA 2170  | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                    |
| PA/SOWK/CRCJ 3000  | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^)   |
| EMGT 3040  | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)                 |
| EMGT 3080  | AGENCY COLLABORATION DURING DISASTERS (^)                     |
| EMGT 4060  | DISASTER RESPONSE AND RECOVERY (^)                            |
| EMGT 4200  | INTERNSHIP IN EMERGENCY MANAGEMENT (^)                        |
| EMGT 4990  | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)                  |
| <b>Natural Disasters Concentration Courses</b>                         |   |
| <b>15</b>  |   |
| <b>Select 2 courses from the following:</b>                            |   |
| GEOG 1030  | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)   |
| GEOG 1010  | ENVIRONMENTAL GEOLOGY (**)                                    |
| GEOG 1050  | HUMAN-ENVIRONMENT GEOGRAPHY (**)                              |
| <b>Select 2 courses from the following to reach a 15 hour minimum:</b> |   |
| GEOG 3510 & GEOG 3514  | METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (** ^) |
| GEOG 3440  | NEBRASKA NATURAL RESOURCES MANAGEMENT (^)                     |
| GEOG 4010  | CONSERVATION OF NATURAL RESOURCES (^)                         |
| GEOG 4260  | PROCESS GEOMORPHOLOGY (^)                                     |
| GEOG 4320  | CLIMATOLOGY (^)   |
| GEOG 4330  | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)               |
| GEOG 4340  | WATER RESOURCES (^)   |
| GEOG 4350  | GLOBAL CLIMATE CHANGE (^)                                     |
| <b>Additional 15-hour Concentration Area</b>                           |   |
| <b>15</b>  |   |
| Criminology and Criminal Justice                                       |   |
| Fire Service Management  |   |
| Geospatial Science   |   |
| Information Technology and Communication                               |   |
| Intelligence and Security  |   |
| Logistics Management   |   |
| Planning and Preparing for Urban Hazards                               |   |
| Private Sector Management  |   |
| Public Administration and Management                                   |   |
| Tribal Management and Emergency Services                               |   |
| <b>ELECTIVES</b>   |   |
| Elective hours as required to reach a total of 120 hours               |   |

## Planning and Preparing for Urban Hazards Concentration

### Emergency Management, Bachelor of Science in Emergency Management - Planning and Preparing for Urban Hazards Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY                 |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                  |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING   |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                     |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS       |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                              |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                           |           |
| STAT 1530   | ELEMENTARY STATISTICS                                     |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 60 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following Emergency Management Courses</b>  |   | <b>30</b> |
| Minimum of "C-" required  |   |           |
| EMGT 1000   | INTRODUCTION TO EMERGENCY MANAGEMENT (**)                 |           |
| EMGT 2020   | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)     |           |
| EMGT 2050   | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^) |           |



|                   |   |
|-------------------|---|
| PA 2170           | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                  |
| PA/SOWK/CRCJ 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| EMGT 3040         | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)               |
| EMGT 3080         | AGENCY COLLABORATION DURING DISASTERS (^)                   |
| EMGT 4060         | DISASTER RESPONSE AND RECOVERY (^)                          |
| EMGT 4200         | INTERNSHIP IN EMERGENCY MANAGEMENT (^)                      |
| EMGT 4990         | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)                |

### Planning and Preparing for Urban Hazards Concentration Courses **15-16**

#### Select 2 of the following:

|              |   |
|--------------|---|
| GEOG 1000    | WORLD REGIONAL GEOGRAPHY (**)                               |
| GEOG 1020    | INTRODUCTION TO HUMAN GEOGRAPHY (**)                        |
| GEOG 1030    | OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**) |
| GEOG 1050    | HUMAN-ENVIRONMENT GEOGRAPHY (**)                            |
| UBNS/PA 1010 | INTRODUCTION TO URBAN STUDIES                               |

#### Select 3 of the following:

|                |                          |
|----------------|--------------------------|
| GEOG/ECON 3130 | ECONOMIC GEOGRAPHY (^)   |
| GEOG 3930      | POLITICAL GEOGRAPHY (^)  |
| GEOG 4120      | URBAN GEOGRAPHY          |
| GEOG 4160      | URBAN SUSTAINABILITY (^) |

### Additional 15-hour Concentration Area **15**

|  |
|--|
| Criminology and Criminal Justice         |
| Fire Service Management                  |
| Geospatial Science                       |
| Information Technology and Communication |
| Intelligence and Security                |
| Logistics Management                     |
| Natural Disasters                        |
| Private Sector Management                |
| Public Administration and Management     |
| Tribal Management and Emergency Services |

### ELECTIVES

Elective hours as required to reach a total of 120 hours

# Private Sector Management Concentration

## Emergency Management, Bachelor of Science in Emergency Management - Private Sector Management Requirements

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |
| Minimum of "C-"required                                   |       |         |

### Fundamental Skills **15**

#### Writing – 6 hrs.

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

#### Oral Communication – 3 hrs.

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

#### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

#### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### Breadth of Knowledge **13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### Individual and Social Responsibility **6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### MAJOR REQUIREMENTS – 60 Hours Required

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

### All of the following Emergency Management Courses **30**

Minimum of "C-"required

|                   |   |
|-------------------|---|
| EMGT 1000         | INTRODUCTION TO EMERGENCY MANAGEMENT (**)                   |
| EMGT 2020         | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)       |
| EMGT 2050         | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^)   |
| PA 2170           | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                  |
| PA/SOWK/CRCJ 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| EMGT 3040         | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)               |
| EMGT 3080         | AGENCY COLLABORATION DURING DISASTERS (^)                   |
| EMGT 4060         | DISASTER RESPONSE AND RECOVERY (^)                          |
| EMGT 4200         | INTERNSHIP IN EMERGENCY MANAGEMENT (^)                      |
| EMGT 4990         | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)                |

### Private Sector Management Concentration Courses **15**

2.5 GPA & C required

|              |   |
|--------------|---|
| ACCT 2000    | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS (^) |
| or ACCT 2020 | PRINCIPLES OF ACCOUNTING II                   |

|  |   |
|--|---|
| ECON 2200                                    | PRINCIPLES OF ECONOMICS (MICRO)<br>(** ^) |
| MKT 3310                                     | PRINCIPLES OF MARKETING (^)               |
| MGMT 3490                                    | MANAGING PEOPLE AND ORGANIZATIONS (^)     |
| ENTR 3710                                    | ENTREPRENEURIAL FOUNDATIONS (^)           |
| <b>Additional 15-hour Concentration Area</b> |   |
| <b>15</b>                                    |   |
| Criminology and Criminal Justice             |   |
| Fire Service Management                      |   |
| Geospatial Science                           |   |
| Information Technology and Communication     |   |
| Intelligence and Security                    |   |
| Logistics Management                         |   |
| Natural Disasters                            |   |
| Planning and Preparing for Urban Hazards     |   |
| Public Administration and Management         |   |
| Tribal Management and Emergency Services     |   |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Public Administration and Management Concentration

### Emergency Management, Bachelor of Science in Emergency Management - Public Administration and Management Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility****6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS – 60 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the following Emergency Management Courses****30**

Minimum of "C-" required

|                   |   |
|-------------------|---|
| EMGT 1000         | INTRODUCTION TO EMERGENCY MANAGEMENT (**)                   |
| EMGT 2020         | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)       |
| EMGT 2050         | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^)   |
| PA 2170           | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                  |
| PA/SOWK/CRCJ 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |
| EMGT 3040         | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)               |
| EMGT 3080         | AGENCY COLLABORATION DURING DISASTERS (^)                   |
| EMGT 4060         | DISASTER RESPONSE AND RECOVERY (^)                          |
| EMGT 4200         | INTERNSHIP IN EMERGENCY MANAGEMENT (^)                      |
| EMGT 4990         | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)                |

**Public Administration and Management Concentration Courses****15**

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| PA 4300                           | SEMINAR IN PUBLIC POLICY (^)          |
| PA 4390                           | PUBLIC BUDGETING                      |
| PA 4410                           | PUBLIC PERSONNEL MANAGEMENT (^)       |
| <b>Select 2 of the following:</b> |                                       |
| PA 2000                           | LEADERSHIP & ADMINISTRATION (**)      |
| PA 4430                           | MUNICIPAL ADMINISTRATION (^)          |
| PA 4440                           | ORGANIZATIONAL DEVELOPMENT AND CHANGE |
| PA 4530                           | STRATEGIC PLANNING (^)                |

**Additional 15-hour Concentration Area****15**

Criminology and Criminal Justice

Fire Service Management

Geospatial Science

Information Technology and Communication

Intelligence and Security

Logistics Management

Natural Disasters

Planning and Preparing for Urban Hazards

Private Sector Management

Tribal Management and Emergency Services

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

# Tribal Management and Emergency Services Concentration

## Emergency Management, Bachelor of Science in Emergency Management - Tribal Management and Emergency Services Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS – 60 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| <b>All of the following Emergency Management Courses</b>  |   | <b>30</b> |
| Minimum of "C-" required  |   |           |
| EMGT 1000   | INTRODUCTION TO EMERGENCY MANAGEMENT (**)   |           |
| EMGT 2020   | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (^)   |           |
| EMGT 2050   | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (^)   |           |

|   |   |           |
|---|---|-----------|
| PA 2170   | INTRODUCTION TO PUBLIC ADMINISTRATION (**)                            |           |
| PA/SOWK/CRCJ 3000   | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^)           |           |
| EMGT 3040   | PREPAREDNESS/PLANNING AND RISK MITIGATION (^)                         |           |
| EMGT 3080   | AGENCY COLLABORATION DURING DISASTERS (^)                             |           |
| EMGT 4060   | DISASTER RESPONSE AND RECOVERY (^)                                    |           |
| EMGT 4200   | INTERNSHIP IN EMERGENCY MANAGEMENT (^)                                |           |
| EMGT 4990   | CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (^)                          |           |
| <b>Tribal Management and Emergency Services Concentration Courses</b> |   | <b>15</b> |
| EMGT 1150   | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES (**)         |           |
| EMGT 2060   | FOUNDATIONAL INDIAN LAW & POLICY ISSUES (^)                           |           |
| EMGT 2500   | DISASTERS AND VULNERABLE POPULATIONS (**)                             |           |
| EMGT 3020   | FEDERAL/TRIBAL GOVERNMENT TO GOVERNMENT RELATIONS (^)                 |           |
| EMGT 4050   | INTEGRATION OF CONTEMPORARY ISSUES IN TRIBAL EMERGENCY MANAGEMENT (^) |           |
| <b>Additional 15-hour Concentration Area</b>                          |   | <b>15</b> |
| Criminology and Criminal Justice                                      |   |           |
| Fire Service Management   |   |           |
| Geospatial Science  |   |           |
| Information Technology and Communication                              |   |           |
| Intelligence and Security   |   |           |
| Logistics Management  |   |           |
| Natural Disasters   |   |           |
| Planning and Preparing for Urban Hazards                              |   |           |
| Private Sector Management   |   |           |
| Public Administration and Management                                  |   |           |
| <b>ELECTIVES</b>  |   |           |
| Elective hours as required to reach a total of 120 hours              |   |           |

## Emergency Management Minor

### Emergency Management Minor

A minor in emergency management is designed for students with an interest in applying emergency management principles to their area of study. The minor provides an in depth cross-section of the emergency management profession. Students will gain valuable information that will enhance their primary field of study as well as their marketability in the public, private, and nonprofit sectors.

### Requirements

The minor requires the following 18 credit hours with grades of C- or better:

| Code                         | Title                                | Credits   |
|------------------------------|--------------------------------------|-----------|
| <b>All of the following:</b> |                                      |           |
| EMGT 1000                    | INTRODUCTION TO EMERGENCY MANAGEMENT | <b>18</b> |

|           |   |
|-----------|---|
| EMGT 2020 | EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION     |
| EMGT 2050 | POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES |
| EMGT 3040 | PREPAREDNESS/PLANNING AND RISK MITIGATION             |
| EMGT 3080 | AGENCY COLLABORATION DURING DISASTERS                 |
| EMGT 4060 | DISASTER RESPONSE AND RECOVERY                        |

## Fire Service Management Minor

A minor in fire service management provides an in depth cross-section of the fire service profession. The minor provides expertise in emergency fire response, and prepares students for the management of fire service and public safety personnel, physical and financial resources, and risk identification. The minor is a stepping-stone for those interested in careers related to fire.

## Fire Service Management Minor Requirements

The minor requires the following 18 credit hours with grades of C- or better:

| Code                        | Title   | Credits   |
|-----------------------------|---|-----------|
| <b>All of the following</b> |   | <b>18</b> |
| EMGT 1000                   | INTRODUCTION TO EMERGENCY MANAGEMENT                  |           |
| FSMT 2200                   | CODES AND INSPECTIONS                                 |           |
| FSMT 2410                   | STRATEGIES AND TACTICS IN FIRE AND EMERGENCY SERVICES |           |
| FSMT 3350                   | FIRE PREVENTION, ORGANIZATION, AND MANAGEMENT         |           |
| FSMT 3680                   | ANALYTICAL APPROACHES TO PUBLIC FIRE PROTECTION       |           |
| FSMT 4450                   | FIRE AND EMERGENCY SERVICES ADMINISTRATION            |           |

## Tribal Management and Emergency Services Minor

Tribal management and emergency services provides an in depth cross-section of the tribal management and emergency services profession.

Currently there are 570+ recognized U.S. Tribal Nations. Each of these nations possess inherent sovereignty and rights of self-governance. However, tribal nations are expected to comply with federal emergency and disaster laws and regulations in order to obtain federal assistance. Federal emergency and disaster laws and regulations are complex and require tribal nations to cooperate with local, state, and federal governments.

This complex system of administration presents many challenges for Native Governments, particularly when faced with natural or man-made disasters that threaten tribal lands and interests. These threats to tribal communities are often compounded by a lack of resources existing in reservation populations. Understanding the complex legal, historical, and cultural issues affecting tribal government management and provision of crisis response is essential to provide routine and emergency services to native communities.

## Tribal Management and Emergency Services Minor Requirements

The minor requires the following 18 credit hours with grades of C- or better:

| Code                        | Title   | Credits   |
|-----------------------------|---|-----------|
| <b>All of the following</b> |   | <b>18</b> |
| EMGT 1150                   | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES          |           |
| EMGT 2060                   | FOUNDATIONAL INDIAN LAW & POLICY ISSUES                           |           |
| EMGT 2500                   | DISASTERS AND VULNERABLE POPULATIONS                              |           |
| EMGT 3020                   | FEDERAL/TRIBAL GOVERNMENT TO GOVERNMENT RELATIONS                 |           |
| EMGT 4020                   | PROTECTING AND SUSTAINING TRIBAL ECONOMIES                        |           |
| EMGT 4050                   | INTEGRATION OF CONTEMPORARY ISSUES IN TRIBAL EMERGENCY MANAGEMENT |           |

## Tribal Management and Emergency Services Certificate

Tribal management and emergency services provides an in depth cross-section of the tribal management and emergency services profession.

Currently there are 570+ recognized U.S. Tribal Nations. Each of these nations possess inherent sovereignty and rights of self-governance. However, tribal nations are expected to comply with federal emergency and disaster laws and regulations in order to obtain federal assistance. Federal emergency and disaster laws and regulations are complex and require tribal nations to cooperate with local, state, and federal governments.

This complex system of administration presents many challenges for Native Governments, particularly when faced with natural or man-made disasters that threaten tribal lands and interests. These threats to tribal communities are often compounded by a lack of resources existing in reservation populations. Understanding the complex legal, historical, and cultural issues affecting tribal government management and provision of crisis response is essential to provide routine and emergency services to native communities.

## Tribal Management and Emergency Services Certificate Requirements

The certificate requires 15 credit hours of the following with grades of C- or better.

| Code                        | Title  | Credits   |
|-----------------------------|--|-----------|
| <b>All of the following</b> |  | <b>15</b> |
| EMGT 1150                   | INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES |           |
| EMGT 2060                   | FOUNDATIONAL INDIAN LAW & POLICY ISSUES                  |           |
| EMGT 3020                   | FEDERAL/TRIBAL GOVERNMENT TO GOVERNMENT RELATIONS        |           |

|           |   |
|-----------|---|
| EMGT 4020 | PROTECTING AND SUSTAINING TRIBAL ECONOMIES                        |
| EMGT 4050 | INTEGRATION OF CONTEMPORARY ISSUES IN TRIBAL EMERGENCY MANAGEMENT |

# Gerontology

## Mission:

We develop knowledge and inspire future leaders to positively influence the aging process and to advocate for older adults, their caregivers, and the communities in which they live.

## General Information

### Overview of Degree Programs

#### Bachelor of Science in Gerontology

The Bachelor of Science in Gerontology requires completion of 120 credit hours with a cumulative GPA of 2.0. Admission into the program requires a 2.50 GPA. The Bachelor of Science in Gerontology can be completed online with an Administration or Healthy Aging concentration or with certain minors.

#### Double Major in Gerontology

Due to the multidisciplinary nature of Gerontology, a double major may be applicable to many programs. A double major requires 45 credit hours, applicable courses may be double counted with the student's other major.

#### Double Degree in Gerontology

Students must complete all general education, college requirements and major requirements for two programs with a minimum of 150 credit hours. Students will receive two diplomas and must meet the University Double Degree requirements outlined in the catalog.

### Required Credit Hours

Bachelor of Science in Gerontology – 120 credit hours  
 Certificate in Gerontology – 18 credit hours (15 credit hours of coursework, 3 credit hours of practicum)  
 Minor in Gerontology – 18 credit hours (at least 9 credits must be upper division)

### Residency Requirement

#### Bachelor of Science in Gerontology

Thirty out of the last thirty-six credit hours must be taken within the University of Nebraska System.

Twenty-one credit hours of Gerontology Core and Gerontology Electives must be taken at UNO or UNL.

### Transfer Credit Policy

Transfer courses from other institutions must be a C- or higher. Transfer coursework will only be accepted from regionally accredited institutions.

#### Bachelor of Science in Gerontology:

Sixty-four credit hours from regionally accredited two-year institutions may be applied toward the degree.

Twelve credit hours of military training can be applied to the degree.

### Unacceptable Credits

Gerontology coursework from UNO, UNL and other institutions over 10 years old will be reviewed on an individual basis. Depending on current course content and updated research, older courses may not be applicable to the program.

Credit from technical programs such as Certificate Nursing Assistant (CNA) and Medical Assistant (MA) do not apply to Gerontology programs. Clinical hours from Nursing programs (RN, BSN & LPN) do not apply. Students with these types of transfer credits should consider the Gerontology concentration in the Division of Continuing Studies as an alternative.

## Quality of Work

A 2.5 GPA is required for admission to the Gerontology program.

A 2.5 GPA is required to enroll in a practicum.

### Bachelor of Science in Gerontology:

All Gerontology coursework must be completed with a C- or higher. Students must maintain a 2.0 GPA to be in good academic standing with the University.

### Minor or Certificate in Gerontology:

All Gerontology courses must be completed with a C- or higher and a combined C (2.0) average.

### Completion of Incomplete Grade

Coursework must be completed by the end of the following semester, per university guidelines.

### Repeating Courses

Allowed with no limit.

## Administration of the Program

The Bachelor of Science is available on the UNO campus only (or online). The minor is available online and on the UNL and UNO campuses.

The UNO Department of Gerontology administers the Certificate in Gerontology program for all campuses of the University of Nebraska under an agreement approved by the Board of Regents in 1977. Students at UNL, UNO, UNK, and UNMC are thus able to earn the certificate as part of their academic work at the University of Nebraska.

In addition to undergraduate and graduate courses, the Department of Gerontology conducts research, community service, and provides educational programming for the community.

Student Group: Sigma Phi Omega

## Academic Advising

Academic advising is provided for all students. The program recommends advising each semester to ensure degree completion. The academic advisor assists students with degree planning, course scheduling, addressing any questions or concerns regarding major/minor/certificate, academic performance, and/or policies and procedures. To contact an advisor, visit CPACS 210A, email [hford@unomaha.edu](mailto:hford@unomaha.edu) or call 402.554.2114.

## Fast Track Program

The Department of Gerontology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing any of the following:



- BS in gerontology
- Double-major with gerontology as either the primary or secondary major
- BMS with a concentration in gerontology
- Students must have completed no fewer than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted to undergraduate status including financial aid
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, and the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program
  - The admit term must be after the completion term of the undergraduate degree

## Contact Information

Department of Gerontology  
211 CPACS  
402.554.2272  
unogero@unomaha.edu

Gerontology Department Website (<http://www.unomaha.edu/gero/>)

## Admission Requirements

All undergraduate Gerontology programs require a 2.50 GPA to be admitted. Students should consult with their academic advisor on the best program to fit their needs. To set up an appointment, students should contact the academic advisor directly.

## Degrees Offered

- Gerontology, Bachelor of Science (p. 749)

## Double Major in Gerontology

Students who choose a double major in gerontology will earn one diploma and will complete all general education, college requirements and major requirements for one program, while completing only Gerontology major coursework for their second major.

## Minors Offered

- Gerontology Minor (p. 753)

## Certificates Offered

- Gerontology Certificate (p. 753)

Gerontology is the study of the physical, psychological, and social aspects of aging. It also includes the built environment such as homes, buildings, streets, open spaces, and infrastructure. The field of aging is

multidisciplinary. Because of this, the gerontology degree allows students to have flexibility with coursework and is tailored to each student's needs and goals. Students will choose a concentration within the major including pre-health, administration, or healthy aging. Students will complete a practicum in the community, providing students with invaluable real-world experience to prepare them to work with aging adults and their families. A degree in Gerontology can also easily be integrated with majors and minors in other disciplines to expand into many various career opportunities.

- Adult Day Program Director
- Aging Services Administrator
- Program Specialist/Director
- Social Services Coordinator
- Life Enrichment Coordinator
- Activity Director
- Information and Referral Specialist
- Volunteer coordinator/manager
- Geriatric Case Manager
- Long Term Care Administrator
- Adult Protective Services worker
- Advocate/Ombudsman
- Research/Data Analysis
- Professional programs including nursing, medicine, physical therapy, occupational therapy, law, interior design, etc.

## Gerontology, Bachelor of Science

### Gerontology, Bachelor of Science in Gerontology Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY   |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110<br>or CMST 2120   | PUBLIC SPEAKING FUNDS<br>ARGUMENTATION AND DEBATE   |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120<br>or MATH 1130<br>or MATH 1140<br>or MATH 1300   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING<br>QUANTITATIVE LITERACY<br>QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS<br>COLLEGE ALGEBRA WITH SUPPORT |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION   |           |
| STAT 1530   | ELEMENTARY STATISTICS   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |



|  |  |
|--|--|
| Humanities – 3 hrs.  |  |
| Natural & Physical Science (must complete a lab) – 4 hrs.      |  |
| Arts – 3 hrs.  |  |
| <b>Individual and Social Responsibility</b>                    | <b>6</b>   |
| Cultural Knowledge – 3 hrs.                                    |  |
| Civic Knowledge and Engagement – 3 hrs.                        |  |
| <b>MAJOR REQUIREMENTS - 63 Hours Required</b>                  |  |
| **Course will satisfy UNO's General Education requirement      |  |
| ^Course requires pre-requisite(s)                              |  |
| Minimum of C- required.  |  |
| <b>Required Core Courses</b>                                   | <b>45</b>  |
| GERO 2000  | INTRODUCTION TO GERONTOLOGY (**)                                   |
| GERO 3000  | COMMUNITY RESOURCES FOR OLDER ADULTS (^)                           |
| or GERO 4670   | PROGRAMS AND SERVICES FOR OLDER ADULTS                             |
| GERO 3070  | DEATH AND DYING  |
| GERO 3250  | RESEARCH METHODS IN GERONTOLOGY                                    |
| STAT 1530  | ELEMENTARY STATISTICS (**)   |
| or STAT 1100   | DATA LITERACY AND VISUALIZATION                                    |
| GERO 3500  | BIOLOGICAL PRINCIPLES OF AGING (^)                                 |
| GERO 4440  | SOCIOLOGY OF AGING   |
| GERO 4460  | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)                      |
| GERO 4470  | MENTAL HEALTH AND AGING (^)  |
| GERO 4550  | HEALTH ASPECTS OF AGING  |
| GERO 4690  | AGING AND DIVERSITY  |
| Additional 3 Gerontology Courses of Student's Choice (9 hours) |  |
| GERO 4940  | PRACTICUM (Cumulative GPA of 2.5 required to enroll in practicum.) |
| <b>Concentration or Minor</b>                                  | <b>18</b>  |
| Administration Concentration                                   |  |
| Healthy Aging Concentration                                    |  |
| Pre-Health Concentration                                       |  |
| <b>ELECTIVES</b>   |  |
| Elective hours as required to reach a total of 120 hours       |  |

## Area of Concentration or Minor

Students choose a concentration or minor to complement their degree. Students may choose any approved UNO minor or from three Gerontology-approved concentrations: Pre-Health Concentration, Administration Concentration (available online), or Health Aging Concentration (available online). Students may also complete a double degree or double major to fulfill this requirement.

If a minor is chosen, students must abide by specific UNO minor requirements. All courses for Gerontology-approved concentrations must be completed with a "C-" or higher.

## Gerontology, Bachelor of Science Concentrations

- Administration (p. 751)
- Healthy Aging (p. 752)
- Pre-Health (p. 753)

## Gerontology, Bachelor of Science in Gerontology Four Year Plan

| <b>Freshman</b>  |   |                |                |
|--|---|----------------|----------------|
| <b>Fall</b>  |   |                | <b>Credits</b> |
| GERO 2000  | INTRODUCTION TO GERONTOLOGY               |                | 3              |
| ENGL 1150  | ENGLISH COMPOSITION I                     |                | 3              |
| Quantitative Literacy Course   |   |                | 3              |
| Humanities Course  |   |                | 3              |
| Data Literacy Course   |   |                | 3              |
|  |   | <b>Credits</b> | <b>15</b>      |
| <b>Spring</b>  |   |                |                |
| ENGL 1160  | COLLEGE RESEARCH AND INFORMATION LITERACY |                | 3              |
| GERO 3000  | COMMUNITY RESOURCES FOR OLDER ADULTS      |                | 3              |
| GERO 3070  | DEATH AND DYING                           |                | 3              |
| Quantitative Literacy Course   |   |                | 3              |
| Social Sciences Course   |   |                | 3              |
|  |   | <b>Credits</b> | <b>15</b>      |
| <b>Sophomore</b>   |   |                |                |
| <b>Fall</b>  |   |                |                |
| CMST 1110  | PUBLIC SPEAKING FUNDS                     |                | 3              |
| or CMST 2120   | or ARGUMENTATION AND DEBATE               |                |                |
| GERO 3500  | BIOLOGICAL PRINCIPLES OF AGING            |                | 3              |
| GERO 4550  | HEALTH ASPECTS OF AGING                   |                | 3              |
| GERO 4460  | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING |                | 3              |
| Elective Course  |   |                | 3              |
|  |   | <b>Credits</b> | <b>15</b>      |
| <b>Spring</b>  |   |                |                |
| GERO 4470  | MENTAL HEALTH AND AGING                   |                | 3              |
| GERO 4440  | SOCIOLOGY OF AGING                        |                | 3              |
| GERO 4690  | AGING AND DIVERSITY                       |                | 3              |
| Civic Knowledge and Engagement Course  |   |                | 3              |
| Gerontology Concentration or Minor Course <sup>1</sup>                       |   |                | 3              |
|  |   | <b>Credits</b> | <b>15</b>      |
| <b>Junior</b>  |   |                |                |
| <b>Fall</b>  |   |                |                |
| Gerontology Elective Course <sup>2</sup>                                     |   |                | 3              |
| Research Methods/Writing in the Discipline Course (GERO 3250 is recommended) |   |                | 3              |
| Gerontology Concentration or Minor Course <sup>1</sup>                       |   |                | 3              |
| Gerontology Concentration or Minor Course <sup>1</sup>                       |   |                | 3              |
| Arts Course  |   |                | 3              |
|  |   | <b>Credits</b> | <b>15</b>      |
| <b>Spring</b>  |   |                |                |
| Gerontology Elective Course <sup>2</sup>                                     |   |                | 3              |
| Gerontology Concentration or Minor Course <sup>1</sup>                       |   |                | 3              |
| Statistics Course  |   |                | 3              |
| Elective Course  |   |                | 3              |
| Elective Course  |   |                | 3              |
|  |   | <b>Credits</b> | <b>15</b>      |
| <b>Senior</b>  |   |                |                |
| <b>Fall</b>  |   |                |                |
| Gerontology Concentration or Minor Course <sup>1</sup>                       |   |                | 3              |
| Natural & Physical Sciences Course with Lab                                  |   |                | 4              |

|  |            |
|--|------------|
| Gerontology Elective Course <sup>2</sup>               | 3          |
| Elective Course  | 3          |
| Elective Course  | 2          |
| <b>Credits</b>   | <b>15</b>  |
| <b>Spring</b>  |            |
| GERO 4940 PRACTICUM <sup>3</sup>                       | 3          |
| Gerontology Concentration or Minor Course <sup>1</sup> | 3          |
| Elective Course  | 3          |
| Elective Course  | 3          |
| Elective Course  | 3          |
| <b>Credits</b>   | <b>15</b>  |
| <b>Total Credits</b>                                   | <b>120</b> |

<sup>1</sup> Gerontology students must choose an 18 credit concentration in Healthy Aging, Administration, Pre-Health OR any university minor.

<sup>2</sup> Gerontology students must take a total of 9 credits of elective courses from within the Gerontology department.

<sup>3</sup> To enroll in practicum a student must have a cumulative 2.5 GPA.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

## Additional Information About this Plan

University Degree Requirements:

The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

\*\*Transfer credit or AP exam scores may change suggested plan of study

GPA Requirements: All major, minor, and general education course grades must be a C- or higher.

Graduation Requirements: 120 Credits and a 2.0 GPA is required to graduate from UNO.

## Administration Concentration Gerontology, Bachelor of Science in Gerontology - Administration Concentration Requirements

| Code  | Title                                     | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                     |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                     |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                  |           |

### Quantitative Literacy – 3 hrs.

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

### Data Literacy – 3 hrs.

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

### Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

### Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

### Major Requirements - 63 Hours Required

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of C- required

### Required Core Courses 45

|  |  |
|--|--|
| GERO 2000  | INTRODUCTION TO GERONTOLOGY (**)                                     |
| GERO 3000  | COMMUNITY RESOURCES FOR OLDER ADULTS (^)                             |
| or GERO 4670   | PROGRAMS AND SERVICES FOR OLDER ADULTS                               |
| GERO 3070  | DEATH AND DYING  |
| GERO 3250  | RESEARCH METHODS IN GERONTOLOGY                                      |
| STAT 1530  | ELEMENTARY STATISTICS (** ^)   |
| or STAT 1100   | DATA LITERACY AND VISUALIZATION                                      |
| GERO 3500  | BIOLOGICAL PRINCIPLES OF AGING (^)                                   |
| GERO 4440  | SOCIOLOGY OF AGING   |
| GERO 4460  | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)                        |
| GERO 4470  | MENTAL HEALTH AND AGING (^)  |
| GERO 4550  | HEALTH ASPECTS OF AGING  |
| GERO 4690  | AGING AND DIVERSITY  |
| Additional 3 Gerontology Courses of Student's Choice (9 hours) |  |
| GERO 4940  | PRACTICUM (A 2.5 Cumulative GPA is required to enroll in practicum.) |

### Administration Concentration Courses 9

|           |   |
|-----------|---|
| GERO 4600 | MANAGEMENT AND ADMINISTRATION OF AGING PROGRAMS (^) |
| GERO 4510 | LONG-TERM CARE ADMINISTRATION                       |
| GERO 4520 | SENIOR HOUSING (^)                                  |

### Select 3 Courses from the following: 9

|           |  |
|-----------|--|
| ACCT 2000 | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS (** ^)         |
| ACCT 2010 | PRINCIPLES OF ACCOUNTING I (^)                           |
| ACCT 2020 | PRINCIPLES OF ACCOUNTING II (^)                          |
| CMST 3130 | SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (^) |

|           |  |
|-----------|--|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO)<br>(** ^)  |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)<br>(** ^)  |
| ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS (^)            |
| GERO 4200 | VOLUNTEER MANAGEMENT (^)                   |
| GERO 4500 | LEGAL ASPECTS OF AGING                     |
| MGMT 3490 | MANAGING PEOPLE AND ORGANIZATIONS (^)      |
| MKT 3310  | PRINCIPLES OF MARKETING (^)                |
| PA 2000   | LEADERSHIP & ADMINISTRATION (**)           |
| PA 2170   | INTRODUCTION TO PUBLIC ADMINISTRATION (**) |
| PA 3200   | PROGRAM PLANNING AND EVALUATION (^)        |
| PA 3500   | NONPROFIT ORGANIZATIONS AND MANAGEMENT (^) |
| RELU 3410 | REAL ESTATE PRINCIPLES AND PRACTICES       |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Healthy Aging Concentration

### Gerontology, Bachelor of Science in Gerontology - Healthy Aging Concentration Requirements

| Code  | Title | Credits |
|---|-------|---------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |       |         |

Minimum of "C-" required

**Fundamental Skills 15****Writing – 6 hrs.**

|           |   |
|-----------|---|
| ENGL 1150 | ENGLISH COMPOSITION I                     |
| ENGL 1160 | COLLEGE RESEARCH AND INFORMATION LITERACY |

**Oral Communication – 3 hrs.**

|              |                          |
|--------------|--------------------------|
| CMST 1110    | PUBLIC SPEAKING FUNDS    |
| or CMST 2120 | ARGUMENTATION AND DEBATE |

**Quantitative Literacy – 3 hrs.**

|              |   |
|--------------|---|
| MATH 1120    | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |
| or MATH 1130 | QUANTITATIVE LITERACY                                   |
| or MATH 1140 | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT                            |

**Data Literacy – 3 hrs.**

Select one from the following:

|           |                                 |
|-----------|---------------------------------|
| STAT 1100 | DATA LITERACY AND VISUALIZATION |
| STAT 1530 | ELEMENTARY STATISTICS           |

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural &amp; Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 63 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

Minimum of C- required.

**Required Core Courses 45**

|  |   |
|--|---|
| GERO 2000  | INTRODUCTION TO GERONTOLOGY (**)  |
| GERO 3000  | COMMUNITY RESOURCES FOR OLDER ADULTS (^)                                |
| or GERO 4670   | PROGRAMS AND SERVICES FOR OLDER ADULTS                                  |
| GERO 3070  | DEATH AND DYING   |
| GERO 3250  | RESEARCH METHODS IN GERONTOLOGY   |
| STAT 1530  | ELEMENTARY STATISTICS (**)  |
| or STAT 1100   | DATA LITERACY AND VISUALIZATION   |
| GERO 3500  | BIOLOGICAL PRINCIPLES OF AGING (^)                                      |
| GERO 4440  | SOCIOLOGY OF AGING  |
| GERO 4460  | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)                           |
| GERO 4470  | MENTAL HEALTH AND AGING (^)   |
| GERO 4550  | HEALTH ASPECTS OF AGING   |
| GERO 4690  | AGING AND DIVERSITY   |
| Additional 3 Gerontology Courses of Student's Choice - 9 hrs |   |
| GERO 4940  | PRACTICUM (A cumulative GPA of 2.5 is required to enroll in practicum.) |

**Healthy Aging Concentration Courses 18**

|           |   |
|-----------|---|
| GERO 4560 | NUTRITION AND AGING (^)                               |
| GERO 4420 | RECREATION FOR THE AGING                              |
| GERO 4850 | HOSPICE & OTHER SERVICES FOR THE DYING PATIENT/FAMILY |

**Select 3 courses from the following (9 Hours)**

|           |   |
|-----------|---|
| GERO 4570 | REHABILITATIVE DESIGN                                 |
| GERO 4200 | VOLUNTEER MANAGEMENT (^)                              |
| PHHB 1500 | FOUNDATIONS IN PUBLIC HEALTH (**)                     |
| PHHB 2070 | SUBSTANCE ABUSE AND MISUSE: PREVENTION AND MANAGEMENT |
| PHHB 2850 | STRESS MANAGEMENT                                     |
| PHHB 2310 | HEALTHFUL LIVING                                      |
| PHHB 3080 | HUMAN SEXUALITY                                       |
| PHHB 4650 | GLOBAL HEALTH (**)                                    |
| PHHB 4130 | COMMUNITY HEALTH                                      |
| HEKI 3090 | APPLIED NUTRITION (**)                                |
| PE 1800   | FITNESS FOR LIVING                                    |
| KINS 3900 | MOTIVATION FOR PHYSICAL ACTIVITY (^)                  |

May choose up to 3 courses from: PEA 100 level

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

# Pre-Health Concentration Gerontology, Bachelor of Science in Gerontology - Pre-Health Concentration Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |           |
| Minimum of "C-" required  |   |           |
| <b>Fundamental Skills</b>   |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>  |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>   |   |           |
| Select one from the following:  |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |           |
| <b>Breadth of Knowledge</b>   |   | <b>13</b> |
| Social Science – 3 hrs.   |   |           |
| Humanities – 3 hrs.   |   |           |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |           |
| Arts – 3 hrs.   |   |           |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>  |
| Cultural Knowledge – 3 hrs.   |   |           |
| Civic Knowledge and Engagement – 3 hrs.   |   |           |
| <b>MAJOR REQUIREMENTS - 63 Hours Required</b>   |   |           |
| **Course will satisfy UNO's General Education requirement   |   |           |
| ^Course requires pre-requisite(s)   |   |           |
| Minimum of C- required.   |   |           |
| <b>Required Core Courses</b>  |   | <b>45</b> |
| GERO 2000   | INTRODUCTION TO GERONTOLOGY (**)                        |           |
| GERO 3000   | COMMUNITY RESOURCES FOR OLDER ADULTS (^)                |           |
| or GERO 4670  | PROGRAMS AND SERVICES FOR OLDER ADULTS                  |           |
| GERO 3070   | DEATH AND DYING   |           |
| GERO 3250   | RESEARCH METHODS IN GERONTOLOGY                         |           |
| STAT 1530   | ELEMENTARY STATISTICS (**)                              |           |
| or STAT 1100  | DATA LITERACY AND VISUALIZATION                         |           |
| GERO 3500   | BIOLOGICAL PRINCIPLES OF AGING (^)                      |           |
| GERO 4440   | SOCIOLOGY OF AGING                                      |           |
| GERO 4460   | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (^)           |           |

|  |   |
|--|---|
| GERO 4470  | MENTAL HEALTH AND AGING (^)   |
| GERO 4550  | HEALTH ASPECTS OF AGING   |
| GERO 4690  | AGING AND DIVERSITY   |
| Additional 3 Gerontology Courses of Student's Choice (9 hours)   |   |
| GERO 4940  | PRACTICUM (A cumulative GPA of 2.5 is required to enroll in practicum.) |
| <b>Pre-Health Concentration Courses</b>  |   |
|  | <b>18</b>   |
| GERO 4050  | ADVANCED BIOLOGY OF AGING   |
| GERO 4560  | NUTRITION AND AGING (^)   |
| GERO 4850  | HOSPICE & OTHER SERVICES FOR THE DYING PATIENT/FAMILY                   |
| Additional 9 hours in approved pre-health courses as outlined by the HCRC recommended course list for student's pre-health area of study |   |
| <b>ELECTIVES</b>   |   |
| Elective hours as required to reach a total of 120 hours   |   |

## Gerontology Certificate Gerontology Certificate

The certificate in gerontology requires completion of 18 credit hours and a cumulative GPA of 2.0 for all gerontology coursework. Admission into the program requires a 2.50 GPA. The requirements for the certificate can be completed online or on campus.

### Gerontology Coursework

(15 credit hours, an overall average of 2.0)

Students choose coursework based on career objectives and interest areas and should consult with a gerontology academic advisor for a plan of study.

Strongly recommended courses for all students: GERO 2000

Strongly recommended courses for Pre-Health: GERO 3500 and GERO 4050

### Gerontology Practicum

To facilitate important real-world experience before graduation, all students will complete 156 hours in a practicum site of their choice.

In order to enroll in practicum, students must have completed a minimum of 9 credit hours of Gerontology courses **and have a cumulative GPA of at least 2.5.**

GERO 4940: Practicum (3 credit hours, course must be completed with a "C-" or higher.)

The certificate program may be used as a minor or a concentration within other degrees. Students should consult with their major/college academic advisor to determine how the certificate applies to their degree program. Students who wish to work toward the certificate must meet with an academic advisor in the Department of Gerontology.

## Gerontology Minor Gerontology Minor Requirements

The minor in gerontology requires completion of 18 credit hours with a cumulative GPA of 2.0 for all gerontology coursework. Nine of these credits must be upper division. Admission into the program requires a 2.50 GPA. The requirements for the minor can be completed online or on campus.

| Code                                      | Title                                  | Credits   |
|---|--|-----------|
| <b>Gerontology Coursework<sup>1</sup></b> |  | <b>6</b>  |
| GERO 2000                                 | INTRODUCTION TO GERONTOLOGY            |           |
| GERO 3000                                 | COMMUNITY RESOURCES FOR OLDER ADULTS   |           |
| or GERO 4670                              | PROGRAMS AND SERVICES FOR OLDER ADULTS |           |
| <b>Gerontology Electives<sup>1</sup></b>  |  | <b>12</b> |

Select coursework based on career objectives and interest areas and consult with a Gerontology academic advisor for a plan of study.

<sup>1</sup> An overall average of 2.0.

For students pursuing a career path in the Pre-Health, GERO 3500 and GERO 4050 is strongly recommended.

## BSSW Program

The Bachelor of Science in Social Work (BSSW) program has received continuous accreditation from the Council on Social Work Education since 1975. The mission of the Grace Abbott School of Social Work is to educate students to become highly qualified social workers who serve people of all ages and influence the systems that affect them, to advance knowledge through teaching and research, and to engage with communities to promote societal well-being.

The BSSW program prepares graduates for beginning social work practice within a variety of social service settings. This degree qualifies graduates to receive the Certified Social Worker credential (CSW) in the state of Nebraska. Other states with licensure and certification of BSSW level social workers will also recognize this degree for licensure or certification. It also prepares students for advanced graduate social work education (the MSW degree).

## Contact Information

Grace Abbott School of Social Work  
Email: [graceabbott@unomaha.edu](mailto:graceabbott@unomaha.edu)

Call - 402.554.2792

Website

## Admission to the BSSW Program

Upon completion of at least 60 credit hours, UNO general education requirements, and three pre-social work courses (SOWK 1000, SOWK 1500, and SOWK 2120), the student may apply for formal admission into the BSSW degree program. Students begin the BSSW program every Fall semester and apply to the program the Spring prior. The BSSW application is open mid-January to mid-February each year. Admission to the BSSW Program is competitive, based on a combination of the following criteria:

- Completion of UNO general education.
- Successful performance in the three pre-professional social work courses (SOWK 1000, SOWK 1500 and SOWK 2120) with a grade of B or better.
- Minimum of 60 credit hours complete with a cumulative GPA of 2.5 or higher.
- Well written personal statement evidencing potential for successful practice in the field of Social Work.
- Positive references

## Degrees Offered

- Social Work, Bachelor of Science (p. 754)

Social Work is a profession for those with a strong desire to help improve people's lives. Social workers aim to strengthen those who are vulnerable or living in poverty, build community, and improve overall well-being. Social work is a versatile career choice. Social workers can specialize in service to a particular population, work in a certain setting, or focus on research, social welfare planning and policy development. Social work is one of the fastest growing professions in the United States.

Social workers are employed in:

- hospitals and health care settings
- community mental health and private practice clinics
- Veterans Affairs
- child welfare agencies
- criminal justice, corrections, and victim advocacy programs
- elementary and secondary schools
- crisis and homeless shelters
- drug and alcohol treatment centers
- specialized non-profit organizations
- local, state, and federal government agencies

## Social Work, Bachelor of Science

### Professional BSSW Program

Students who apply and are accepted into the BSSW program complete a sequence of professional social work courses as well as a practicum experience and social work specific electives.

## Social Work, Bachelor of Science in Social Work Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b> |   |           |
| Minimum of "C-" required                                  |   |           |
| <b>Fundamental Skills</b>                                 |   | <b>15</b> |
| <b>Writing – 6 hrs.</b>                                   |   |           |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |           |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |           |
| <b>Oral Communication – 3 hrs.</b>                        |   |           |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |           |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |           |
| <b>Quantitative Literacy – 3 hrs.</b>                     |   |           |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |           |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |           |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |           |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |           |
| <b>Data Literacy – 3 hrs.</b>                             |   |           |
| Select one from the following:                            |   |           |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |           |
| STAT 1530   | ELEMENTARY STATISTICS                                   |           |



Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

**Breadth of Knowledge 13**

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

**Individual and Social Responsibility 6**

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 3 hrs.

**MAJOR REQUIREMENTS - 58 Hours Required**

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

**All of the Following 46**

|           |  |
|-----------|--|
| SOWK 1000 | SOCIAL WORK AND SOCIAL WELFARE (**)  |
| SOWK 1500 | SOCIAL WORK AND CIVIC ENGAGEMENT (^)   |
| SOWK 2120 | RACE, CLASS AND GENDER IN THE UNITED STATES (**)                               |
| SOWK 3000 | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^)                    |
| SOWK 3010 | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (^)                                |
| SOWK 3020 | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (^)                               |
| SOWK 3110 | SOCIAL WELFARE POLICY (^)  |
| SOWK 3320 | GENERALIST PRACTICE WITH INDIVIDUALS AND FAMILIES (^)                          |
| SOWK 3350 | GENERALIST PRACTICE WITH GROUPS, ORGANIZATIONS, AND COMMUNITIES (^)            |
| SOWK 4360 | APPLIED SOCIAL WORK PRACTICE: CASE MANAGEMENT, RESOURCES, AND INTERVENTION (^) |
| SOWK 4400 | RESEARCH METHODS IN SOCIAL WORK PRACTICE (^)                                   |
| SOWK 4410 | GENERALIST SOCIAL WORK FIELD PRACTICUM I (^)                                   |
| SOWK 4420 | GENERALIST SOCIAL WORK FIELD PRACTICUM II (^)                                  |
| SOWK 4450 | SOCIAL WORK CAREER PREP (^)  |

**Select 4 of the Following 12**

|           |   |
|-----------|---|
| SOWK 4010 | SOCIAL WORK WITH AMERICAN INDIANS (^)                       |
| SOWK 4020 | SOCIAL WORK WITH BLACK FAMILIES (^)                         |
| SOWK 4030 | SOCIAL WORK WITH LATINOS (^)                                |
| SOWK 4040 | AGING AND DIVERSITY (^)                                     |
| SOWK 4050 | ETHNIC DIVERSITY AND SOCIAL WORK PRACTICE (^)               |
| SOWK 4640 | PERMANENCE FOR CHILDREN (^)                                 |
| SOWK 4650 | SOCIAL WORK IN MENTAL HEALTH (^)                            |
| SOWK 4660 | SOCIAL WORK WITH INDIVIDUALS WITH DISABILITIES (^)          |
| SOWK 4510 | CLINICAL TREATMENT ISSUES IN SUBSTANCE USE DISORDERS (^)    |
| SOWK 4620 | TRAUMA AND RESILIENCE (^)                                   |
| SOWK 4680 | MEDICAL AND PSYCHOSOCIAL ASPECTS OF SUBSTANCE USE DISORDERS |

|           |   |
|-----------|---|
| SOWK 4690 | ASSESSMENT AND CASE MANAGEMENT IN SUBSTANCE USE DISORDERS |
| SOWK 4800 | SOCIAL WORK AND THE LAW (^)                               |
| SOWK 4810 | SPIRITUALITY AND SOCIAL WORK PRACTICE (^)                 |
| SOWK 4830 | CRISIS INTERVENTION (^)                                   |
| SOWK 4850 | HOSPICE & OTHER SERVICES FOR THE DYING PATIENT/FAMILY (^) |
| SOWK 4060 | MEDICAL SOCIAL WORK (^)                                   |
| SOWK 4530 | SCHOOL SOCIAL WORK (^)                                    |
| SOWK 4880 | TOPICAL SEMINAR IN SOCIAL WORK (^)                        |
| SOWK 4890 | SPECIAL STUDIES IN SOCIAL WORK (^)                        |
| SOWK 4980 | SENIOR HONORS PROJECT/THESIS (^)                          |

**ELECTIVES**

Elective hours as required to reach a total of 120 hours

## Social Work, Bachelor of Science in Social Work Four Year Plan

**Freshman**

| <b>Fall</b>               |  | <b>Credits</b> |
|---------------------------|--|----------------|
| SOWK 1000                 | SOCIAL WORK AND SOCIAL WELFARE <sup>1</sup>          | 3              |
| CMST 1110<br>or CMST 2120 | PUBLIC SPEAKING FUNDS<br>or ARGUMENTATION AND DEBATE | 3              |
| Quantitative Literacy     |  | 3              |
| General                   |  | 3              |
| ENGL 1140                 | COLLEGE WRITING AND RHETORIC I WITH SUPPORT          | 4              |
| <b>Credits</b>            |  | <b>16</b>      |

**Spring**

|                  |   |           |
|------------------|---|-----------|
| ENGL 1160        | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| Natural Science  |   | 4         |
| Social Science   |   | 3         |
| Art              |   | 3         |
| General Elective |   | 3         |
| <b>Credits</b>   |   | <b>16</b> |

**Sophomore**

| <b>Fall</b>        |   |           |
|--------------------|---|-----------|
| SOWK 1500          | SOCIAL WORK AND CIVIC ENGAGEMENT <sup>2</sup> | 3         |
| Data Literacy      |   | 3         |
| Humanities         |   | 3         |
| Cultural Knowledge |   | 3         |
| General Elective   |   | 3         |
| <b>Credits</b>     |   | <b>15</b> |

**Spring**

Students can apply for the professional social work program during the spring term if all of the pre-requisite courses for the social work program will be complete by the end of the spring term.

|                  |   |           |
|------------------|---|-----------|
| SOWK 2120        | RACE, CLASS AND GENDER IN THE UNITED STATES | 3         |
| Civic Knowledge  |   | 3         |
| General Elective |   | 3         |
| General Elective |   | 3         |
| General Elective |   | 3         |
| <b>Credits</b>   |   | <b>15</b> |

**Junior****Fall**

|                      |   |           |
|----------------------|---|-----------|
| SOWK 3010            | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I       | 3         |
| SOWK 3320            | GENERALIST PRACTICE WITH INDIVIDUALS AND FAMILIES | 3         |
| SOWK 3890            | WRITING FOR SOCIAL WORK                           | 3         |
| Social Work Elective |   | 3         |
| General Elective     |   | 3         |
| <b>Credits</b>       |   | <b>15</b> |

**Spring**

|                      |   |           |
|----------------------|---|-----------|
| SOWK 3020            | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II                    | 3         |
| SOWK 3350            | GENERALIST PRACTICE WITH GROUPS, ORGANIZATIONS, AND COMMUNITIES | 3         |
| SOWK 3110            | SOCIAL WELFARE POLICY   | 3         |
| SOWK 3000            | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR         | 3         |
| Social Work Elective |   | 3         |
| <b>Credits</b>       |   | <b>15</b> |

**Senior****Fall**

|                      |  |           |
|----------------------|--|-----------|
| SOWK 4410            | GENERALIST SOCIAL WORK FIELD PRACTICUM I                                   | 6         |
| SOWK 4360            | APPLIED SOCIAL WORK PRACTICE: CASE MANAGEMENT, RESOURCES, AND INTERVENTION | 3         |
| SOWK 4400            | RESEARCH METHODS IN SOCIAL WORK PRACTICE                                   | 3         |
| Social Work Elective |  | 3         |
| <b>Credits</b>       |  | <b>15</b> |

**Spring**

|                      |   |            |
|----------------------|---|------------|
| SOWK 4420            | GENERALIST SOCIAL WORK FIELD PRACTICUM II | 6          |
| SOWK 4450            | SOCIAL WORK CAREER PREP                   | 1          |
| Social Work Elective |   | 3          |
| Social Work Elective |   | 3          |
| <b>Credits</b>       |   | <b>13</b>  |
| <b>Total Credits</b> |   | <b>120</b> |

<sup>1</sup> Must receive a grade of B or better in SOWK 1000

<sup>2</sup> Must receive a grade of B or better in SOWK 2120

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

Placement Exams: For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements:**

Students can apply for the professional social work program in the spring semester of their sophomore year given that the proper pre-requisite courses will be complete by the end of the sophomore spring term. Students must have a minimum cumulative GPA at or above 2.5 in order to apply for and begin the professional social work courses in their junior and senior year. Students must maintain a minimum GPA of 2.5 in order to continue in the professional social work program.

## Cross-Sector Collaborative Leadership Minor

### The Need

Many societal challenges are complex in nature, with a variety of interdependent causal factors that cannot be addressed independently by public sector, private sector, or non-profit sector organizations working in isolation. Yet, through collaboration across those sectors, significant impact is possible.

### The Goal

The goal of this cross-sector collaborative leadership minor is to prepare graduates to lead and serve effectively in such cross-sector collaborative initiatives.

### Skills Acquired

Students who successfully complete the cross-sector collaborative leadership minor will have gained knowledge and experiences that will enable them to:

- Understand and apply collaborative leadership across the public, nonprofit and business sectors.
- Effectively approach and communicate with cross-sector partners.
- Analyze issues and challenges from the perspectives of all three sectors.
- Recognize the interconnectedness of all three sectors.
- Demonstrate cultural understanding.
- Develop and evaluate cross-sector collaboration initiatives.
- Apply strategic and project management skills.

### Interdisciplinary

This interdisciplinary minor will prepare students to collaboratively address complex cross-sector challenges. Students will develop their leadership skills through developing and leading a collaborative cross-sector project and collaborating with private, nonprofit and public sectors.

### Contact

To learn more about the cross-sector collaborative leadership minor, contact:

Dr. Meagan Van Gelder | Cross-Sector Collaborative Leadership Minor Advisor | [mvangelder@unomaha.edu](mailto:mvangelder@unomaha.edu) | 402.554.3480

## Cross-Sector Collaborative Leadership Minor Requirements

15 credit hours of courses completed with grades of C- or better are required for the minor.

| Code                                 | Title  | Credits  |
|--------------------------------------|--|----------|
| <b>Required Courses</b>              |  | <b>9</b> |
| PA/MGMT 3800                         | CROSS-SECTOR COLLABORATIVE LEADERSHIP          |          |
| PA 2000                              | LEADERSHIP & ADMINISTRATION                    |          |
| PA 4960                              | CROSS-SECTOR COLLABORATIVE LEADERSHIP CAPSTONE |          |
| <b>6 hours from one of the below</b> |  | <b>6</b> |

| Code   | Title                                 | Credits |
|--|---------------------------------------|---------|
| <b>Bachelor of Science in Business Administration (BSBA) majors are required to take the following two courses (6 credit hours):</b> |                                       |         |
| PA 2170  | INTRODUCTION TO PUBLIC ADMINISTRATION |         |
| PA 3700  | FINANCIAL MANAGEMENT FOR NONPROFITS   |         |
| or PA 4390   | PUBLIC BUDGETING                      |         |

**Political Science undergraduate majors and Public Administration undergraduate minors are required to take the following two courses (6 credit hours):**

|              |   |
|--------------|---|
| MGMT 1500    | INTRODUCTION TO BUSINESS                  |
| ACCT 2000    | ACCOUNTING BASICS FOR NON-BUSINESS MAJORS |
| or ENTR 3710 | ENTREPRENEURIAL FOUNDATIONS               |

**Other UNO undergraduate majors are required to take the following two courses (6 credit hours):**

|            |  |
|------------|--|
| MGMT 1500  | INTRODUCTION TO BUSINESS               |
| PA 2170    | INTRODUCTION TO PUBLIC ADMINISTRATION  |
| or PA 3500 | NONPROFIT ORGANIZATIONS AND MANAGEMENT |

## Nonprofit Management Minor

As UNO continues to serve as the Nebraska's premiere metropolitan university, the nonprofit management minor exemplifies UNO's metropolitan and collaborative extension to the community.

### Our Mission

Along with the University of Nebraska at Omaha's (UNO) strategic plan, the School of Public Administration upholds the esteemed pleasure of placing students first and achieving academic excellence all while engaging with the community.

By entrusting students with the necessary information to lead, manage, and ignite change within the nonprofit sector, our university continues to rise to the forefront of community engagement.

### Skills Acquired

Upon completion of the nonprofit management minor, students will have the necessary skills needed to work in the nonprofit field.

- To equip students with the knowledge and competencies to successfully manage and lead organizations in the nonprofit sector.

- To provide a foundation in financial management, facilitating community change, marketing, and managing volunteers and staff with a nonprofit organization.
- To complement a wide variety of majors across the university system.

## Student-Centered

The nonprofit sector is on the rise, with wages and employment exceeding both private and government entities the past decade. With 1.6 million registered nonprofits in the U.S., the need to educate and empower UNO students with the skills to lead the nonprofit sector in the Omaha metro is crucial. As interest in the nonprofit sector continues to climb, so will the need to service the Omaha community and the State of Nebraska in its effort to meet the needs of its growing population. The nonprofit management minor is open to students in any discipline area at UNO.

## Contact

To learn more about the nonprofit management minor, contact:

Sue Troester | Nonprofit Management Minor | [sdmstroester@unomaha.edu](mailto:sdmstroester@unomaha.edu) ([mvangelder@unomaha.edu](mailto:mvangelder@unomaha.edu)) | 402.554.2625

## Nonprofit Management Minor Requirements

The minor requires the following 18 credit hours with grades of C- or better:

| Code   | Title  | Credits  |
|--|--|----------|
| <b>Required Nonprofit Management Minor Courses (must complete all)</b> |  | <b>9</b> |
| PA 2170  | INTRODUCTION TO PUBLIC ADMINISTRATION                      |          |
| PA 3500  | NONPROFIT ORGANIZATIONS AND MANAGEMENT                     |          |
| PA 4500  | NONPROFIT FUNDRAISING                                      |          |
| <b>Elective Nonprofit Management Minor Courses</b>                     |  |          |
| <b>Select three of the following:</b>                                  |  | <b>9</b> |
| PA 2000  | LEADERSHIP & ADMINISTRATION                                |          |
| PA 3600  | PERSONNEL AND VOLUNTEER MANAGEMENT IN NONPROFITS           |          |
| PA 3700  | FINANCIAL MANAGEMENT FOR NONPROFITS                        |          |
| PA 4100  | MARKETING IN PUBLIC, NON-PROFIT AND AVIATION ORGANIZATIONS |          |
| PA 4300  | SEMINAR IN PUBLIC POLICY                                   |          |
| PA 4410  | PUBLIC PERSONNEL MANAGEMENT                                |          |
| PA 4440  | ORGANIZATIONAL DEVELOPMENT AND CHANGE                      |          |
| PA 4530  | STRATEGIC PLANNING   |          |
| PA 4950  | INTERNSHIP   |          |

## Public Administration Minor

As UNO continues to serve as the Nebraska's premiere metropolitan university, the public administration minor exemplifies UNO's metropolitan and collaborative extension to the community.

### Our Mission

Along with the University of Nebraska at Omaha's (UNO) strategic plan, the School of Public Administration upholds the esteemed pleasure of placing students first and achieving academic excellence all while engaging with the community.

By entrusting students with the necessary information to lead, manage, and ignite change within the public sector, our university continues to rise to the forefront of community engagement.

Skills Acquired

Upon completion of the public administration minor, students will have the necessary skills needed to work in the public sector. The minor is designed to accomplish the following:

- Describe the political context of public administration as well as the historical development and evolution of these institutions of the United States;
- Explain the role of public administrators in policy development and policy implementation;
- Empower future leaders to serve communities, to advance the common good and to effect positive change; and
- Develop students to become professionals who are equipped with the skills needed to manage at all levels of government (local, state and federal) as well as nonprofit organizations.

Student-Centered

To continue the momentum of serving the UNO campus, the greater Omaha community and beyond, there is a great need to empower our students and the knowledge, skills and abilities necessary to lead the future of the public sector and public service. The public administration minor is open to students in any discipline area at UNO.

Contact

To learn more about the public administration minor, contact:

Dr. Meagan Van Gelder | Public Administration Minor Advisor  
| mvangelder@unomaha.edu | 402.554.3480

Public Administration Minor Requirements

| Code   | Title  | Credits  |
|--|--|----------|
| <b>18 Hours Required</b>   |  |          |
| <b>Required Public Administration Courses</b>                            |  | <b>9</b> |
| PA 2170  | INTRODUCTION TO PUBLIC ADMINISTRATION                      |          |
| PA 4390  | PUBLIC BUDGETING   |          |
| PA 4410  | PUBLIC PERSONNEL MANAGEMENT                                |          |
| <b>Public Administration Electives (select three from the following)</b> |  | <b>9</b> |
| PA 2000  | LEADERSHIP & ADMINISTRATION                                |          |
| PA 4100  | MARKETING IN PUBLIC, NON-PROFIT AND AVIATION ORGANIZATIONS |          |
| PA 4300  | SEMINAR IN PUBLIC POLICY                                   |          |
| PA 4500  | NONPROFIT FUNDRAISING                                      |          |
| PA 4530  | STRATEGIC PLANNING   |          |
| PA 4950  | INTERNSHIP   |          |

Goodrich Scholarship Program

The Goodrich Scholarship Program, established by the Nebraska legislature in 1972, is an academic unit of the College of Public Affairs and Community Service. The program offers a merit-and-need-based scholarship for Nebraska residents who qualify through the Goodrich scholarship application process. The program provides financial aid in the form of

tuition and general fees for up to 135 credit hours or until graduation (whichever comes first). The Goodrich scholarship is designed for full-time students at UNO only. The program offers a complementary MavEd core curriculum. Goodrich programming includes a comprehensive menu of academic and non-academic support services that enhance or advance student success.

Mission

The mission of the Goodrich Scholarship Program is to offer affordable quality undergraduate education to academically eligible low-income Nebraska residents who qualify through the Goodrich scholarship application process.

Other Information

Strategic Goals

The Goodrich Scholarship Program's strategic goals are consistent with CPACS and the University of Nebraska Omaha's strategic goals of being student-centered, academic excellence-centered, and community-engaged.

Program Goals

- To provide scholars opportunities for sound and innovative educational experiences;
- To enable scholars to connect with each other, with faculty/staff, with the university, and with the community at large and
- To equip scholars with skills that will enable them to assume leadership roles.

Scholarship Note

Applicants who receive tuition scholarships, including but not limited to Regents, Chancellor's, Dean's and Buffett Foundation, cannot combine or stack any of those awards with a Goodrich scholarship. For more information about stacking scholarships, please contact UNO's Office of Financial Support and Scholarships at 402.554.2327.

Student Group

The Goodrich Organization (GO!), Goodrich's student body, opens up leadership opportunities. GO!'s many activities include fundraising and community engagement with organizations such as Partnership4Kids and Big Brother Big Sisters of the Midlands. For suggestions or more specific GO! information, contact GO! faculty adviser Stevie Seibert Desjarlais at 402.554.6302.

Contact

Goodrich Scholarship Program  
University of Nebraska at Omaha  
123 CPACS  
6001 Dodge Street  
Omaha, NE 68182  
Phone: 402.554.2274

Website (<http://www.unomaha.edu/college-of-public-affairs-and-community-service/goodrich-scholarship-program/>)

Admissions

Goodrich uses a composite of selection criteria to evaluate both merit and financial need. Criteria include the individual's application data, financial analysis, academic record, interview, writing assessment, and references. Note that applicants who will have earned more than 31 college credits by May of the application year are not eligible. For more information, contact the Goodrich Scholarship Program.

Contact

Goodrich Scholarship Program

University of Nebraska at Omaha  
123 CPACS  
6001 Dodge Street  
Omaha, NE 68182  
Phone: 402.554.2274

## Undergraduate Courses A-Z

### A

- Accounting (ACCT) (p. 760)
- Aerospace Studies (AERO) (p. 761)
- Anthropology (ANTH) (p. 762)
- Applied Computing and Informatics (ACMP) (p. 763)
- Applied Learning (APLD) (p. 766)
- Architectural Engineering (AREN) (p. 767)
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# Accounting (ACCT)

## Accounting Undergraduate Courses

### ACCT 2000 ACCOUNTING BASICS FOR NON-BUSINESS MAJORS (3 credits)

This course is designed to provide non-business students with an understanding of basic accounting terms and concepts, an understanding of the usefulness of accounting data for decision-making by internal and external business stakeholders, and the skills to actually use accounting data in decision-making.

**Prerequisite(s):** Student must be a non-business student. ENGL 1150 and MATH 1310 or MATH 1220 with 'C-' or better. Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

### ACCT 2010 PRINCIPLES OF ACCOUNTING I (3 credits)

Basic concepts and assumptions underlying financial accounting; basic structure of accounting; the accounting cycle; external financial statements of the enterprise with emphasis on the corporation; income determination; accounting for and reporting of assets, liabilities and owners' equity; analysis and reporting of cash flows; financial statement analysis.

**Prerequisite(s):** ENGL 1150 with a 'C' (2.0) or better, a GPA of 2.5 or higher, and MATH 1370 or MATH 1930 with a 'C' (2.0) or better or concurrent enrollment in MATH 1370 or MATH 1930

### ACCT 2020 PRINCIPLES OF ACCOUNTING II (3 credits)

A study of techniques and concepts affecting internal accounting in a business organization. These include budgeting in general, costing systems, variance analysis and generating reports for management decision-making. Special topics include segment reporting, control of decentralized operations, capital budgeting, and service department cost allocations.

**Prerequisite(s):** ACCT 2010, ENGL 1150, and MATH 1370 or MATH 1930, each with a C (2.0) or better, and a GPA of 2.5 or higher.

### ACCT 3000 MANAGERIAL ACCOUNTING FOR SUPPLY CHAIN MANAGEMENT (3 credits)

This course highlights the important role of a managerial accountant in managing a global supply chain and covers the key accounting techniques for supply chain management. (Cross-listed with SCMT 3000)

**Prerequisite(s):** ACCT 2020 with a grade of C (2.0) or better or ACCT 2000 with a grade of C (2.0) or better and cumulative GPA of 2.5 or higher. ENGL 1160 with a grade of 'C' (2.0) or better or concurrent enrollment in ENGL 1160. Not open to non-degree graduate students.

### ACCT 3020 BASIC FEDERAL INCOME TAXATION (3 credits)

This course provides an introduction to the basic concepts and principles of federal income tax with an emphasis on concepts unique to individual taxpayers.

**Prerequisite(s):** ACCT 2020, ENGL 1150, ECON 2200 and ECON 2220 with a 'C' (2.0) or better in each course. Cumulative GPA of at least 2.5.

### ACCT 3030 INTERMEDIATE FINANCIAL ACCOUNTING I (3 credits)

A more intensive study of basic accounting theory and principles learned in ACCT 2010. Topics include a conceptual framework of accounting, net income concepts, financial statements, present value applications, revenue recognition, current assets, plant assets, and intangible assets.

**Prerequisite(s):** ACCT 2020, ECON 2200, and ECON 2220, with a grade of 'C' (2.0) or better in each course and a 2.5 GPA. ENGL 1160 with a grade of 'C' (2.0) or better or concurrent enrollment in ENGL 1160.

### ACCT 3040 INTERMEDIATE FINANCIAL ACCOUNTING II (3 credits)

This is the second of two courses in intermediate financial accounting. This course focuses on financial reporting issues relating investments, debt financing, leases, contingencies, cash flows reporting and income taxes.

**Prerequisite(s):** ACCT 3030 and ENGL 1160, each with a 'C' (2.0) or better.

### ACCT 3050 INTERMEDIATE MANAGERIAL ACCOUNTING (3 credits)

The objective of managerial accounting is to provide management with relevant and timely information to aid economic decision making. This course analyzes numerous economic decisions and identifies what information is relevant. Special attention is given to how different cost accumulation systems and different cost accounting and estimating techniques can aid the decision-making process.

**Prerequisite(s):** ACCT 2020, ECON 2200, ECON 2220, and BSAD 2130, BSAD 3140 or BSAD 3160, with a "C" (2.0) or better in each. Cumulative GPA of at least 2.5. ENGL 1160 with a grade of 'C' (2.0) or better or concurrent enrollment in ENGL 1160.

### ACCT 3080 ACCOUNTING INFORMATION SYSTEMS (3 credits)

Introduction to professional accounting information systems, including information systems concepts, accounting and database software and research tools to provide a foundation for subsequent accounting courses.

**Prerequisite(s):** ACCT 2020, ECON 2200 and ECON 2220, with "C" (2.0) or better in each. Cumulative GPA of at least 2.5. ENGL 1160 with a grade of 'C' (2.0) or better or concurrent enrollment in ENGL 1160.

**ACCT 4010 ADVANCED FINANCIAL ACCOUNTING (3 credits)**

Specialized issues in financial accounting. Principal topics include business combinations and consolidated financial statements, partnership accounting, translation of foreign currency financial statements, accounting for foreign currency denominated transactions, and SEC reporting requirements. (Cross-listed with ACCT 8016)

**Prerequisite(s):** ACCT 3030 and ACCT 3040 with "C+" (2.33) or better in each and ENGL 1160 with "C" (2.0) or better. Cumulative GPA of at least 2.5. Cumulative upper-division Accounting GPA of at least 2.5. Not open to non-degree graduate students.

**ACCT 4020 ANALYTICS FOR ACCOUNTING (3 credits)**

Students develop an Analytics Mindset for the accounting profession, which includes the crossover competencies of accounting and business knowledge, data modeling and analytic abilities, and communication skills. Principal topics include fundamentals of data capture and cleansing, database development and implementation, visualization and presentation of information, and the use of accounting information for business decisions.

**Prerequisite(s):** ACCT 3030, ACCT 3080, and ENGL 1160 each with C (2.0) or better. Cumulative GPA of at least 2.5. Cumulative upper-division Accounting GPA of at least 2.5. Not open to non-degree graduate students.

**ACCT 4040 ADVANCED FEDERAL INCOME TAXATION (3 credits)**

Analysis of various advanced tax issues, such as accounting methods, property transactions, and formation, operation, and liquidation of C-corporations, S-corporations and partnerships. (Cross-listed with ACCT 8046.)

**Prerequisite(s):** ACCT 3020, ACCT 3030, and ENGL 1160, each with a "C" (2.0) or better. Cumulative GPA of at least 2.5. Cumulative upper-division Accounting GPA of at least 2.5. Not open to non-degree graduate students.

**ACCT 4050 PRINCIPLES OF INTERNAL AUDIT (3 credits)**

This course introduces students to the internal audit profession and the internal audit process. Topics include: the definition of internal auditing, The Institute of Internal Auditor's International Professional Practices Framework, risk, governance and control issues, fraud detection and mitigation, communicating results, and conducting internal audit engagements. (Cross-listed with ACCT 8056).

**Prerequisite(s):** ACCT 3030 and ACCT 3080, each with a grade of C or better, and overall and upper-level accounting GPAs of 2.5 or better. Not open to non-degree graduate students.

**ACCT 4060 ADVANCED MANAGERIAL ACCOUNTING (3 credits)**

Intensive study and discussion of the responsibilities of managerial accountants in the decision-making process in organizations and the consequences of the manner in which they use cost accounting information in decision-making. (Cross-listed with ACCT 8066.)

**Prerequisite(s):** ACCT 3050, ACCT 3030, and ENGL 1160, each with "C" (2.0) or better. Cumulative GPA of at least 2.5. Cumulative upper-division Accounting GPA of at least 2.5. Not open to non-degree graduate students.

**ACCT 4070 GOVERNMENTAL/NONPROFIT ACCOUNTING AND AUDITING (3 credits)**

Study of budgeting, accounting, financial reporting and auditing in governmental and nonprofit entities. (Cross-listed with ACCT 8076.)

**Prerequisite(s):** ACCT 3030 and ENGL 1160, each with a "C" (2.0) or better. Cumulative GPA of at least 2.5. Cumulative upper-division accounting GPA of at least 2.5. Not open to non-degree graduate students.

**ACCT 4080 PRINCIPLES OF AUDITING (3 credits)**

An introduction to auditing, Standards, responsibilities, professional ethics, the audit framework, evidence and reports are studied.

**Prerequisite(s):** ACCT 3030, ACCT 3080, ENGL 1160, and BSAD 2130 or BSAD 3160, with a "C" (2.0) or better in each. Cumulative GPA of at least 2.5. Cumulative upper-division Accounting GPA of at least 2.5.

**ACCT 4090 INFORMATION SYSTEMS AUDITING (3 credits)**

This course will provide an introduction of auditing an advanced accounting information system. Content studied will include professional standards, guidelines, and procedures promulgated by the Information Systems Audit and Control Association. Accounting information systems control and security practices, and their assessment, will be discussed in the areas of operations, physical and logical access, systems, networks, development and applications, and incorporating hands-on exposure to automated evaluation tools.

**Prerequisite(s):** ACCT 4080 with a grade of C (2.0) or better. Cumulative GPA of at least 2.5. Cumulative upper-division Accounting GPA of at least 2.5.

**ACCT 4500 INDEPENDENT STUDY (1-3 credits)**

Individual investigation of specific problems in the field of accounting.

**Prerequisite(s):** Must have permission of the School of Accounting director.

**ACCT 4510 ACCOUNTING INTERNSHIP (1-3 credits)**

A course for junior or senior accounting students to apply their academic accounting knowledge to accounting practice in an employment situation. A student report on the internship experience and an employer's evaluation of the student's performance are course requirements. Can be applied to free electives, but not accounting specialization electives. (Maximum of 3 hours)

**Prerequisite(s):** ACCT 3030 and ENGL 1160, each with a C (2.0) or better, and permission of internship coordinator.

## Aerospace Studies (AERO)

### Aerospace Studies Undergraduate Courses

**AERO 1010 LEADERSHIP LABORATORY (0 credits)**

"Leadership Laboratory" (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Department of the Air Force second lieutenants and complement the AFROTC academic program. It is a student-planned, organized, and executed practicum conducted under the supervision of the Detachment Commander and Operations Flight Commander.

**Prerequisite(s):** Corequisite - Students need to register for respective year-level equivalent Aerospace Studies Course (AERO 1310/1320, AERO 2310/2320, AERO 3110/3120, AERO 4110/4120)

**AERO 1310 DEPARTMENT OF THE AIR FORCE (DAF) PROFESSIONALISM (1 credit)**

Department of the Air Force (DAF) Professionalism," is designed to introduce students to the DAF and its culture, providing an overview of essential attributes required for success in this context. (Fall)

**Prerequisite(s):** Corequisite - AERO 1010

**AERO 1320 COMPETITION AND SECURITY (1 credit)**

"Competition and Security," introduces students to the concept of national security from a broad perspective, encompassing the military's involvement in securing national interests through a range of activities from cooperation to armed conflict. This course is designed to lay a solid foundation for understanding the multifaceted nature of global security and the critical role of the DAF in maintaining peace and security. (Spring)

**Prerequisite(s):** Corequisite - AERO 1010

**AERO 2310 TEAM AND LEADERSHIP FUNDAMENTALS (1 credit)**

"Team and Leadership Fundamentals," provides a fundamental understanding of both leadership and team building. The lessons and course flow are designed to prepare students for field training and leadership positions in the detachment. (Fall)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320 or permission from instructor

**AERO 2320 TEAM AND LEADERSHIP FUNDAMENTALS (1 credit)**

Team and Leadership Fundamentals provides a fundamental understanding of both leadership and team building. The lessons and course flow are designed to prepare students for field training and leadership positions in the detachment. (Spring)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320/2310 or permission from instructor

**AERO 3110 LEADING PEOPLE AND EFFECTIVE COMMUNICATION (3 credits)**

"Leading People and Effective Communication," utilizes the student's field training experience to take a more in-depth look at leadership. Special emphasis is placed on enhancing communication skills and why that is important as a leader. Students have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors. (Fall)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320/2310/2320 or permission from instructor

**AERO 3120 LEADING PEOPLE AND EFFECTIVE COMMUNICATION (3 credits)**

"Leading People and Effective Communication," utilizes the student's field training experience to take a more in-depth look at leadership. Special emphasis is placed on enhancing communication skills and why that is important as a leader. Students have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors. (Spring)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320/2310/2320 or permission from instructor

**AERO 4110 NATIONAL SECURITY AND PREPARATION FOR ACTIVE-DUTY (3 credits)**

"National Security and Preparation for Active-Duty" is designed for college seniors and provides them the foundation to understand their role as military officers and how they are directly tied to our National Security. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. (Fall)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisites - AERO 1310/1320/2310/2320/3110/3120 or permission from instructor

**AERO 4120 NATIONAL SECURITY AND PREPARATION FOR ACTIVE-DUTY (3 credits)**

"National Security and Preparation for Active-Duty" is designed for college seniors and provides them the foundation to understand their role as military officers and how they are directly tied to our National Security. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. (Spring)

**Prerequisite(s):** Corequisite - AERO 1010, Prerequisite - AERO 1310/1320/2310/2320/3110/3120/4110

## Anthropology (ANTH)

### Anthropology Undergraduate Courses

**ANTH 1050 INTRODUCTION TO ANTHROPOLOGY (3 credits)**

Anthropology is the humanistic and scientific study of humans, past and present. This course will present an overview of the four subdisciplines of anthropology: sociocultural, archaeological, biological, and linguistic.

**Distribution:** Social Science General Education course

**ANTH 2000 ETHNOGRAPHY INDEPENDENT STUDY (1-3 credits)**

This is an independent study course in which the student views films and digital materials, reads books and articles regarding a specific culture from an ethnographic perspective. Each culture will be a one (1) credit hour module. The intent is to acquaint the student in some depth with cultures in the world.

**Prerequisite(s):** One course in the social sciences and the instructor's permission.

**ANTH 2990 GUIDED READING IN ANTHROPOLOGY (1-6 credits)**

Guided readings and/or independent research in a special anthropological topic under the supervision of an Anthropology faculty member. A formal contract specifying the nature of the work to be completed must be signed before enrolling in the course. May be taken for a maximum of six hours.

**Prerequisite(s):** Permission of instructor. Not open to non-degree graduate students.

**ANTH 3210 CULTURES OF AFRICAN PEOPLE (3 credits)**

An introduction to cultures and societies of Africa. Analysis of kinship systems; political, economic and religious institutions; social change. Emphasis on the dynamics of social organization of African people.

**Prerequisite(s):** Sophomore or above with one three-hour introductory social science course

**ANTH 3220 PEOPLES AND CULTURES OF NATIVE NORTH AMERICA (3 credits)**

A survey of the Native peoples and cultures of North America, past and present. Topics covered include: economics, religion, social organization, kinship, political organization, material culture, gender and culture change through time.

**Prerequisite(s):** ANTH 1050 or permission of Instructor

**ANTH 3260 WORLD CULTURES AND PEOPLES (3 credits)**

This course utilizes ethnography to examine human cultures in a specific geographic context. The area approach in cultural anthropology reveals how the physical environment shapes culture and how those cultures, in turn, shape their environments. This course will also examine the larger social milieu and cultural change over time. The specific area will be announced each time the course is offered.

**Prerequisite(s):** ANTH 1050 or permission of instructor.

**ANTH 3910 INTRODUCTION TO PHYSICAL ANTHROPOLOGY (3 credits)**

An introduction to physical anthropology through an examination of theories and techniques used to investigate human origins; the relationship between humans and their physical environment; human variation, growth and development; and the evolution of human diseases.

**Prerequisite(s):** ANTH 1050 or High School Biology recommended.

**Distribution:** Natural/Physical Science General Education course

**ANTH 3920 ESSENTIALS OF ARCHAEOLOGY (3 credits)**

This course introduces students to the essentials of scientific archaeology. Topics addressed include the history of archaeology, site survey, mapping, testing, excavation, laboratory methods, analysis, interpretation, and documentation. Scientific archaeology focuses upon the use of empirical data to test or evaluate our interpretations of past human behavior.

**Prerequisite(s):** Anthropology 1050 or permission of instructor.

**ANTH 4210 CULTURAL ANTHROPOLOGY (3 credits)**

Cultural Anthropology is the sub-discipline of Anthropology that systematically considers cultural diversity (similarities and differences) in all known human societies. The scope of cultural anthropology is one of the broadest in the social sciences and includes the study of subsistence strategies and economies, kinship and social organization, political organization, religion, gender, language, expressive arts, human-environment relationships, and globalization. (Cross-listed with ANTH 8216).

**Prerequisite(s):** Junior or senior with a minimum of six hours of social science.

**ANTH 4220 NORTH AMERICAN ARCHAEOLOGY (3 credits)**

This course explores more than 20,000 years of Native American culture and lifeways in North America. Indigenous peoples faced numerous challenges throughout this vast and diverse continent. Hunters, gatherers, fishers, and horticulturalists adapted to all regions of North America. Students will be introduced to a range of archaeological concepts, methods and theoretical perspectives central to learning about this rich heritage of American archaeology. (Cross-listed with ANTH 8226).

**Prerequisite(s):** ANTH 1050 or permission of instructor

**ANTH 4230 ETHNOMEDICINES OF THE AMERICAS (3 credits)**

An anthropological approach to the study of the cultural systems of specific American ethnomedicines (traditional medicines) of North, Central and South America. For each ethnomedicine, the historical context, philosophy, practice, therapeutics, and utilization will be examined to understand how and why each ethnomedicine has survived despite tremendous extermination pressure. (Cross-listed with ANTH 8236).

**Prerequisite(s):** ANTH 1050

**ANTH 4240 MEDICAL ANTHROPOLOGY (3 credits)**

Medical anthropology is the cross-cultural study of human culture, health and illness. Using multiple theoretical perspectives, this course examines how cultural, social, environmental, and biological factors interact to produce patterns of health and illness in past and present human societies. (Cross-listed with ANTH 8246)

**ANTH 4250 ENVIRONMENTAL ANTHROPOLOGY AND NATIVE PEOPLES OF THE GREAT PLAINS (3 credits)**

Environmental anthropology seeks to understand the interrelationships between human societies and their biophysical and social environments. This course introduces students to basic concepts and theories used by anthropologists to study environmental influences upon both past and present Native American societies on the North American Great Plains. Particular attention will be given to the rapid and dramatic environmental changes that continue to challenge Native Americans in the Great Plains today. (Cross-listed with ANTH 8256)

**Prerequisite(s):** Anthropology 1050 and junior standing; or permission of instructor.

**ANTH 4260 TOPICS IN CULTURAL ANTHROPOLOGY (3 credits)**

Cultural Anthropology (Ethnology) is the comparative study of cultures. Each semester the course is offered, one topic will be selected from the subfield of Cultural Anthropology, such as: Applied Anthropology, Economic Anthropology, Political Anthropology, Visual Anthropology, Anthropology of Gender and Sexualities, Comparative Analysis of Kinship, or the Anthropology of Religion. Since the topic will vary, students may elect to take this course more than once.

**Prerequisite(s):** ANTH 1050 or permission of instructor.

**ANTH 4270 DECOLONIZING NATIVE AMERICAN HEALTH (3 credits)**

This course will utilize an interdisciplinary lens to interrogate Native American health and wellness grounded in the decolonizing theoretical and methodological tools drawn from Medical Anthropology and Native American Studies. Topics covered will include: Health Disparities, Federal Indian Health Policy, Historical Trauma, Medical Mistrust, Traditional Healing, Food Sovereignty and Research Ethics. (Cross-listed with ANTH 8276, NAMS 4270, NAMS 8276).

**Prerequisite(s):** ANTH 1050 or Instructor permission

**ANTH 4280 CLINICAL ETHNOGRAPHY (3 credits)**

Using ethnographic texts, this course explores the clinical world from an anthropological perspective. Students will use anthropological theories and methods to learn about cultures of medical practices, diverse health professions, the contexts of health care delivery, and the structural, cultural, and historical forces that influence the practice of healthcare in the U.S. and cross-culturally. (Cross-listed with ANTH 8286, MEDH 4280).

**Prerequisite(s):** ANTH 1050 or MEDH 1000 or permission of the instructor.

**ANTH 4290 DRUG USE, ADDICTION, & CULTURE (3 credits)**

What does "addiction" and its treatment look like in different cultures? How do social practices and cultural values shape drug use and addiction? Why do some people become addicted to drugs and others don't? This course examines drug use and addiction cross-culturally. Using anthropological theories and methods, we will explore: definitions of addiction across time and place; drug use and addiction in relation to social inequalities; interventions targeting drug use and the assumptions underlying them; and lived experiences of drug use and addiction. We will also consider the implications of these issues for healthcare, policy, and social justice in the context of contemporary problems such as the rise in opioid overdose in the U.S. (Cross-listed with ANTH 8296, MEDH 4290)

**Prerequisite(s):** ANTH 1050, MEDH 1000, or permission of the instructor

**ANTH 4920 SEMINAR IN ANTHROPOLOGY (3 credits)**

This course reviews research and writing in an area of current interest in the field of anthropology. The specific topic(s) to be covered will be announced at the time the course is being offered. Since the topics will vary, students may elect to take this course more than once. (Cross-listed with ANTH 8926).

**Prerequisite(s):** ANTH 1050 or permission of instructor

**ANTH 4940 ARCHAEOLOGICAL FIELD METHODS (3 credits)**

This course introduces students to the field methods of scientific archaeology. These field methods include map reading, use of satellite and aerial photographs, instrument survey and mapping, pedestrian survey or reconnaissance, site survey data collection, identification of artifacts (stone tools, ceramics, etc.) and ecofacts (animal remains, macrobotanicals, etc.), systematic artifact collection and documentation, soil probes and coring methods, GPS-based mapping, excavation methods, and data recording. Additional topics include laboratory methods (artifact and ecofact analysis, interpretation, and documentation). This field course ultimately focuses upon the use of empirical data to test or evaluate our interpretations of past human behavior. (Cross-listed with ANTH 8946).

**Prerequisite(s):** ANTH 1050 or permission of instructor.

**ANTH 4990 INDEPENDENT STUDY IN ANTHROPOLOGY (1-3 credits)**

Guided readings and/or independent research in a special anthropological topic under the supervision of an Anthropology faculty member. A formal contract specifying the nature of the work to be completed must be signed before enrolling in the course. May be taken for a maximum of six hours.

**Prerequisite(s):** Permission of instructor.

## Applied Computing and Informatics (ACMP)

### Applied Computing and Informatics Undergraduate Courses

**ACMP 1100 INTRODUCTION TO INFORMATION SECURITY (3 credits)**

This course emphasizes our current dependence on information technology and how its security in cyberspace (or lack thereof) is shaping the global landscape. Several historical and contemporary global events that have been influenced by the exploitation of information technology motivates topics on cyber crime, malware, intrusion detection, cryptography, among others, and how to secure one's own data and computer system. Several aspects of this course are geared towards developing an understanding of the "cyberspace" as a new medium that breaks all geographical boundaries, while highlighting noticeable influences on it from social, political, economic and cultural factors of a geographical region. (Cross-listed with CYBR 1100).

**Distribution:** Global Diversity General Education course



**ACMP 1200 HUMAN-CENTERED COMPUTING (3 credits)**

The human condition is one of the most studied, yet least understood phenomena. These days, nearly every modern human experience is mediated by technology. As humans increasingly interact with one another and non-human artificial intelligences, our ideas and conceptualizations of the human condition are shifting towards a form of posthumanism. In this class, students will use modern human-centered computing techniques to explore the posthumanist "techno-human condition" (Sarewitz and Allenby) and develop computational artifacts that are human-centered. There are no prerequisites for the course and students need nothing but their own curiosity to enter.

**Distribution:** Social Science General Education course

**ACMP 1300 DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (3 credits)**

This course is an introduction to how computing and technology can be applied to human health and biological systems in an interdisciplinary setting. Students will learn to discern between computing specializations such as bioinformatics and health informatics. The course will explore the application of computing to health, life sciences, and agriculture in both current and historical contexts, and how these applications impact society. Topics covered include bioinformatics, health informatics, user experience and design, data security and privacy, and more. (Cross-listed with BIOI 1000).

**Distribution:** Natural/Physical Science General Education course

**ACMP 2000 DATA ANALYSIS AND MACHINE LEARNING (3 credits)**

This course introduces students to the principles and practices of data analysis using modern tools and techniques. Students will learn how to use statistical and computational methods to analyze large data sets and derive insights and knowledge from data. The course covers data visualization, data cleaning and preparation, exploratory data analysis, statistical inference and foundational machine learning concepts. Students will also learn how to use programming languages and tools such as Python or R to manipulate, transform, and analyze data. The course includes hands-on projects and case studies to provide practical experience and develop critical thinking skills for solving real-world data problems. By the end of the course, students will be able to analyze and interpret complex data sets, communicate findings effectively, and make data-driven decisions.

**Prerequisite(s):** CIST 1600 or CIST 1400

**ACMP 2100 FUNDAMENTALS OF SOFTWARE AND HARDWARE CONSTRUCTION (3 credits)**

From smart home switches, voice controllers, and media casting devices to embedded sensors in infrastructure and commercial buildings that control lights, bridges, and traffic monitors, devices are everywhere in the modern world. Those devices have embedded controllers that specifies what they do and connect to more powerful software elsewhere, usually on the cloud. In this course, we will strip away the layers of complexity and examine the foundations of how hardware (devices) and software (code and data) talk to and interact with one another. Students will learn to write code that reads from sensor inputs and responds with actions that affect the environment using actuation hardware like lights or motors. This course is hands on and presumes students have a basic familiarity with programming concepts.

**Prerequisite(s):** CIST 1600 or CIST 1400

**ACMP 2220 APPLIED IT INNOVATION (3 credits)**

The course extends the concepts learned in the Introduction to IT Innovation course and focuses on market dynamics and monetizing innovations. It moves past idea generation and focuses on identifying and gathering resources, innovation implementation, sustainable innovation models and how ideas can be monetized. The goal is for students to take their original ideas from concept to initial implementation with thoughts towards commercialization. Upon completing the course, students will have created at least a rudimentary implementation of an original idea and have a defensible plan for how the idea can be monetized.

**Prerequisite(s):** ACMP 1110/ITIN 1110 & CIST 1400. Not open to non-degree graduate students.

**ACMP 2400 DEVOPS AND PLATFORM ENGINEERING (3 credits)**

DevOps, a portmanteau moniker short for software development and IT operations, is a collaborative methodology that enables faster and more reliable software delivery by combining development and operations activities into a single lifecycle. Platform Engineering is the process of designing, building, and maintaining toolchains and infrastructure that supports applications. In this course, students will learn how DevOps practices and methodologies, like build automation and continuous integration, can be used to improve software delivery and quality. Students will also develop skills focused on deploying, managing, and testing applications using cloud-based platforms, such as Amazon Web Services (AWS), Microsoft Azure, or Google Cloud Platform (GCP). The course will also feature an overview of relevant agile techniques for incremental delivery and hands-on labs with tools such as Docker, Jenkins, Git, and more.

**Prerequisite(s):** CIST 1600 or CIST 1400

**ACMP 2900 SPECIAL TOPICS IN APPLIED COMPUTING AND INFORMATICS (3 credits)**

This course is designed to acquaint students with issues which are current to the field or emerging trends in Applied Computing and Informatics. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once.

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.

**ACMP 2990 IT INNOVATION SYMPOSIUM (1 credit)**

The seminar exposes students to information technology innovators from multiple industries and varied backgrounds. It teaches the practical aspects of IT Innovation from those that have done it and are doing it in both research and practice. The purpose is to cause students to reflect on applying innovation to the real-world, connect them to the innovation community and to equip them with best practices and tools to make their innovations a reality.

**Prerequisite(s):** Enrollment in the IT Innovation Major or IT Innovation Minor. Not open to non-degree graduate students.

**ACMP 3100 MUSIC INFORMATICS (3 credits)**

Surveys the use of digital music data in the study, composition, performance, analysis, storage, and dissemination of music. Various computational approaches and technologies in music informatics including music information retrieval will be explored and implemented by students. (Cross-listed with MUS 3100).

**Prerequisite(s):** Successful completion of one of the following three courses satisfies the prerequisite requirement: CIST 1300 or MUS 3170 or MUS 3180. Not open to non-degree graduate students.

**ACMP 3180 ELECTRONIC MUSIC PRODUCTION (3 credits)**

An exploration of the potentials of electronic music. Concepts of electronic music are presented through the use of a computer, software, and appropriate hardware. Students create assignments that demonstrate the application of basic techniques.

**ACMP 3200 DATA STRUCTURES AND ALGORITHMS FOR APPLIED COMPUTING AND INFORMATICS (3 credits)**

This course focuses on data structures and algorithms for applied computing. Students with non-CS backgrounds will learn how to abstract and reduce real-world problems of applied computing to data models and computational challenges, and how to efficiently, in terms of time and space, solve the challenges.

**Prerequisite(s):** CIST 1600

**ACMP 3330 DESIGN METHODS AND PROTOTYPING (3 credits)**

This course will cover elements and principles of excellent product design and development. The history of design will be reviewed and overarching tenets of design will be introduced. The course will particularly focus on innovation and students will be expected to develop an original concept and create quality designs and low-fidelity prototype implementations of their unique idea. The proposed solutions must be novel and meet a real-world market need. This course will be hands-on and will examine developmental models for innovation.

**Prerequisite(s):** ACMP 2220 or ITIN 2220. Not open to non-degree graduate students.

**ACMP 3400 APPLIED BIOINFORMATICS (3 credits)**

This course will provide students with the practical skills needed for the analysis of -omics data. Topics covered will include biological databases, molecular biology tools (e.g., primer design, contig assembly), gene prediction and mining, database searches, genome comparison, sequence alignments, phylogenetic inference, gene expression data analyses, functional annotation of protein sequences, protein structure and modeling. Specialized software (e.g., Vector NTI) and widely used web-based computation tools (e.g., Entrez, BLAST, ClustalX, Phylip, PyMOL, and SwissPDBviewer) will be illustrated. Multiple approaches for solving particular problems will be presented. (Cross-listed with BIOI 3000).

**Prerequisite(s):** BIOI 1000 and either CIST 1400 or CIST 1600

**ACMP 4000 SPECIAL TOPICS IN IT INNOVATION (3 credits)**

This course is designed to acquaint students with issues which are current to the field or emerging trends in the IT Innovation area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once. (Cross-listed with HCC 8006).

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.

**ACMP 4090 MANAGING COLLABORATIVE ENGAGEMENT (3 credits)**

This course will provide students with the opportunity to develop knowledge and strategies for leading teams, enhancing collaboration, building consensus, problem solving in teams, facilitating group processes, and designing collaborative workspaces. (Cross-listed with BSAD 8096, MGMT 4090, MGMT 8096, SCMT 4090).

**Prerequisite(s):** Junior standing or permission of instructor. Not open to non-degree graduate students.

**ACMP 4260 USER EXPERIENCE DESIGN (3 credits)**

User experience (UX) design is concerned with the application of user-centered design principles to the creation of computer interfaces ranging from traditional desktop and web-based applications, mobile and embedded interfaces, and ubiquitous computing. This course provides in-depth, hands-on experience with real world application of the iterative user-centered process including contextual inquiry, task analysis, design ideation, rapid prototyping, interface evaluation, and reporting usability findings. (Cross-listed with CSCI 4260, CSCI 8266, HCC 8266).

**Prerequisite(s):** Required: C- or better in CIST 2500 and junior standing, or by permission of instructor. Recommended: C- or better in CSCI 4250 or ACMP 3330/ITIN 3330.

**ACMP 4360 METAVERSE INNOVATIONS (3 credits)**

Recent technological breakthroughs across computing disciplines are laying the foundation for a paradigm shift in how we interact with and relate to digital technology. The metaverse is a term that is helpful in coalescing these divergent concepts into a single word that symbolizes a future where the physical and virtual worlds are blurred beyond distinction. By means of disruption brought about by the advent of the computer, the internet, and personal computing devices, the enormity and impact of the metaverse across every aspect of human civilization will be unprecedented. The future of work, the economy, and the fundamental social fabric that underpins it all will inevitably be transformed. This course provides students the opportunity understand the technological foundations of the metaverse and equip with the tools and knowledge to be innovators in this space across academic disciplines and economic sectors. (Cross-listed with HCC 8366).

**ACMP 4500 INDEPENDENT STUDIES (1-3 credits)**

A variable credit course for the junior or senior who will benefit from independent reading assignments and research type problems. Independent study makes available courses of study not available in scheduled course offerings. The student wishing to take an independent study course should find a faculty member willing to supervise the course and then submit, for approval, a written proposal (including amount of credit) to the IT Innovation Undergraduate Program Committee at least three weeks prior to registration.

**Prerequisite(s):** Written permission required.

**ACMP 4580 CAPSTONE (3 credits)**

This capstone course serves as the culminating experience for students in Cybersecurity or Applied Computing and Informatics. Students choose among three pathways: the Security Maker Path, where they design, build, and secure a new system or significant component, producing artifacts such as design documentation, code, and testing results; the Security Breaker Path, where they rigorously evaluate an existing product or system using system, network, and/or software testing methods, generating artifacts such as reversed design documents, vulnerability analyses, test cases, scans, and an overall systems posture analysis report; and the Applied Computing Path, focusing on design, development, and innovation artifacts in areas such as software development, data analytics, informatics solutions, and/or biomedical areas. Most projects will include a community-engaged component, enabling students to tackle real-world challenges and contribute positively to the community. This course is ideally taken in the final semester of your degree. (Cross-listed with CYBR 4580).

**Prerequisite(s):** Senior standing in Cybersecurity or Applied Computing and Informatics. Not open to non-degree graduate students.

**ACMP 4720 INNOVATION VENTURES (3 credits)**

This team-based course provides students with the opportunity to practice the basic tools of business discovery and validation. Concepts and techniques in innovation, entrepreneurship, and strategy will be used to aid students in the venture creation process. Important considerations impacting the viability of the venture post formation will also be explored. Practical real-world experimentation is the central component of the course and will help students to conceive, develop, and launch their own innovative ventures. (Cross-listed with BSAD 8726, HCC 8256, ENTR 4720, ENTR 8726, MGMT 4720, MGMT 8726, MKT 4720, MKT 8726).

**Prerequisite(s):** ACMP 1110/ITIN 1110 and junior standing or above or by instructor permission.

**ACMP 4860 BIOINFORMATICS ALGORITHMS (3 credits)**

The main objective of this course is to provide an organized forum for students to understand the foundations of algorithmic design and analysis in the context of health and biological data. The course will present fundamental concepts in algorithms (exhaustive, greedy, graph, heuristic, and more) and explore how those concepts extend to bioinformatics and related fields, such as biomedical informatics, and health informatics. Students will learn about historical context of these algorithms and how they were pivotal in forming more complex modern approaches, and will explore advanced algorithms in their area of interest. Students will also exercise their programming skills with the opportunity to implement and apply bioinformatics algorithms to real data, so to better grasp the technical components of algorithmic design and analysis. (Cross-listed with BMI 8866, BIOI 4860).

**Prerequisite(s):** ACMP 3200 or CSCI 3320



**ACMP 4880 SYSTEMS SIMULATION AND MODELING (3 credits)**

The course provides an introduction to the modeling and simulation with special emphasis on decision-theoretic models and rational decision-making. The ability to make good decisions is key to individuals and organizations and studying, understanding and improving decisions is vital to success. Students are given a background into systematic decision-making processes, and then are introduced to formal methods for decision modeling and analysis. Building on these foundational models, students learn how to perform process modeling and optimization. Finally, the course concludes with a look at psychological biases and traps that may affect decision-makers. (Cross-listed with ISQA 4880).

**Prerequisite(s):** CIST 1400, CIST 2500, or equivalent.

**ACMP 4950 INTERNSHIP IN APPLIED COMPUTING AND INFORMATICS (1-3 credits)**

This course provides students with an opportunity to apply and further develop their knowledge and skills in a practical environment outside of academia. Internships give students professional work experience and exposure to the challenges and opportunities faced by professionals in the workplace.

**Prerequisite(s):** Junior/Senior standing and permission of School of interdisciplinary Informatics Director. Not open to non-degree graduate students.

## Applied Learning (APLD)

### Applied Learning Undergraduate Courses

**APLD 2700 COOPERATIVE EDUCATION (1-3 credits)**

A semester of off-campus relevant semi-professional and professional work experience coordinated to complement classroom academics with practical firsthand involvement in the business world.

**Prerequisite(s):** Permission of the dean of the College of Public Affairs and Community Service (CPACS)

**APLD 3010 PRIOR LEARNING ASSESSMENT PORTFOLIO DEVELOPMENT (3 credits)**

Prior Learning Assessment (PLA) enables students to earn college credit for prior learning. This course focuses on the principles and methodology of assessing college-level learning acquired outside the traditional classroom. Learners analyze personal learning in terms of adult learning theory. Learners identify, articulate, and document personal learning outcomes and relate what they have learned to the topics and learning outcomes of college courses and other college-level learning opportunities. The course promotes skill development in organizing information, writing, analyzing, and critical thinking. Learners prepare a prior learning portfolio to demonstrate learning equivalent to college-level coursework and are guided by a course mentor and a subject matter expert to develop, advance, and complete their PLA portfolio submission.

**Prerequisite(s):** ENGL 1150 or equivalent. Students must have permission to enroll after academic advisor confirmation that they have college-level learning experiences that could be evaluated for academic credit and applied towards their BMS degree program.

**APLD 3220 DATA-DRIVEN DECISION-MAKING (3 credits)**

This course equips learners with the essential skills to make strategic, data-informed decisions in the workplace while integrating hands-on experience with digital tools through the Digital Skills Co-Lab. Learners will develop the ability to assess data quality, analyze workplace-relevant data, and effectively communicate insights using professional writing, interpersonal communication, data visualization, and storytelling techniques. Through practical, real-world assignments, participants will refine their ability to convey information clearly, adapt to diverse audiences, and leverage digital tools like spreadsheets, data visualization software, and project management platforms to enhance their professional impact. By the end of the course, learners will be empowered to make evidence-based decisions that drive measurable outcomes across various professional contexts.

**Prerequisite(s):** Successful completion of (C- or better) or concurrent enrollment in MLTI 3000 Foundations Seminar.

**APLD 3300 DESIGNING U - LEARNING & LIFE DESIGN (3 credits)**

This hands-on, project-based course aims to help learners navigate educational, career, and life transitions. This course equips learners with creative and generative approaches to shape purposeful and fulfilling life and career paths. Using design thinking principles and practices, students will engage in reflective exercises, prototyping, and testing, all structured around real-life challenges and transitions. This course emphasizes self-awareness, resilience, and adaptable mindsets to encourage lifelong personal and professional growth and development.

**APLD 3330 DESIGNING U: CAREER + TRANSITIONS (3 credits)**

This hands-on, project-based course equips students with the tools to design their post-college lives and navigate significant personal and professional transitions. Using design-thinking principles, students will explore career pathways, develop resilience, and create plans for managing life changes. The course addresses the unique challenges of transitions at different life stages, from early-career exploration to mid-career shifts and personal milestones, fostering a mindset of adaptability and growth. Students will develop skills in professional branding, networking, and transition management, preparing them to thrive in a dynamic and evolving world.

**APLD 3410 ADULT LEARNING THEORY & PRACTICE (3 credits)**

This course explores the foundational theories, principles, and practices of adult learning within diverse contexts. Students will examine the characteristics of adult learners, the psychological and social factors influencing learning, and the role of motivation, experience, and self-directed learning in adult education. Emphasis is placed on applying theoretical frameworks to real-world teaching, training, and facilitation scenarios. Through case studies, project-based learning, and reflective practice, students will develop the skills needed to design, implement, and evaluate effective learning experiences for adults in various professional and community settings.

**APLD 3500 SPECIAL TOPICS IN APPLIED LEARNING (3 credits)**

This course provides an in-depth exploration of a particular issue or topic, offering students an opportunity to engage in applied learning. Regardless of topic, this course fosters critical engagement with enduring and emerging issues, preparing students to adapt and thrive in diverse professional environments. Through the LEARN - APPLY - REFLECT framework, students will explore a specialized topic, critically examining the connections between theory and practice. Course activities are designed to promote active learning, collaboration, and critical reflection, allowing students to address real-world challenges in diverse settings. By engaging in meaningful projects and reflective practices, students will enhance their problem-solving abilities, deepen their professional knowledge, and develop strategies for lifelong learning.

**Prerequisite(s):** No prerequisites. Course may be taken for credit multiple times, depending on topic.

**APLD 3700 COOPERATIVE EDUCATION (1-3 credits)**

A semester of off-campus relevant semi-professional and professional work experience coordinated to complement classroom academics with practical firsthand involvement in the business world.

**Prerequisite(s):** Permission of the dean of the College of Public Affairs and Community Service (CPACS).

**APLD 3900 INTRODUCTION TO INTEGRATED LEADERSHIP (3 credits)**

This seminar course provides a cornerstone to understanding and developing an integrative leadership practice by focusing on yourself, your life, and your leadership. Current challenges demand leadership that can integrate perspectives from a personal and collective level. The goal of the course is to identify concepts of integrated leadership, to develop frameworks for understanding the contexts of applying integrated leadership and help develop skills for practicing integrated leadership. This course will explore leading well by understanding and integrating meaning, purpose, and values within the organizations and communities you serve. Through both theory and practice, this course will cultivate self-awareness and introspection through questioning and reflective practice and applying practical leadership skills to solving problems. (Cross-listed with PA 3900).

**Prerequisite(s):** Prerequisite(s): ENGL 1150 (C- or better) or equivalency.

**APLD 4230 LEADERSHIP IN ACTION (3 credits)**

This course explores the foundations of leadership theory while focusing on the development of durable leadership skills essential for thriving in dynamic workplace environments. Students will engage in applied learning experiences to enhance adaptability, collaboration, decision-making, and ethical leadership. The integrated Leadership Skills Co-Lab offers hands-on opportunities to apply leadership concepts to real-world challenges through simulations, team activities, and reflective practice. By integrating theory with practical application, students will gain confidence and competence to lead in diverse and rapidly changing professional contexts.

**Prerequisite(s):** Successful completion of APLD 3210 and APLD 3220 (C- or better).

**APLD 4240 OPERATIONAL ESSENTIALS - PROCESSES & PROJECTS (3 credits)**

This course equips students with the skills to design, implement, and enhance organizational processes that drive efficiency and align with strategic goals. Students will learn to optimize workflows, allocate resources effectively, and implement performance measurement tools to ensure operational success. Key topics include budgeting and financial management, risk assessment, and resource allocation strategies. Integrated with the Managing Projects Skills Co-Lab, students will gain hands-on experience applying tools for task delegation, time management, and process improvement in real-world scenarios. By mastering operational essentials, students will be prepared to improve processes, manage resources effectively, and lead initiatives that deliver measurable organizational value.

**Prerequisite(s):** Successful completion of APLD 3210 and APLD 3220 (C- or better).

**APLD 4250 OPERATIONAL ESSENTIALS - PEOPLE & PERFORMANCE (3 credits)**

This course covers the essentials of managing and developing talent within an organization, focusing on the human side of leadership. Students will learn strategies for performance management, effective communication, team motivation, and conflict resolution, providing a strong foundation in people-centered leadership. Emphasis will be placed on understanding diverse work styles, fostering a collaborative culture, and implementing feedback mechanisms that drive growth and accountability. Through interactive scenarios and role-play exercises, students will practice skills in coaching, employee development, and managing change. As part of this course, students will engage in the Collaboration Skills Co-Lab, an integrated durable skills lab designed to enhance skills in effective collaboration, conflict management, and team dynamics. By the end of the course, students will have the knowledge and skills to adapt to evolving workforce needs and cultivate an inclusive environment that maximizes individual and team contributions.

**Prerequisite(s):** Successful completion of APLD 3210 and APLD 3220 (C- or better).

## Architectural Engineering (AREN)

### Architectural Engineering Undergraduate Courses

**AREN 1000 DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION SEMINAR (0 credits)**

Presentation of professional problems and practices by students, faculty, and professionals associated with careers in the Durham School of Architectural Engineering and Construction

**AREN 1010 INTRODUCTION TO ARCHITECTURAL ENGINEERING (1 credit)**

An overview of architectural engineering. Descriptions of structural, lighting and electrical, and mechanical engineered systems in buildings. Design and measurement exercises. Field visits to buildings.

**AREN 1030 DESIGN AND SIMULATION STUDIO I (3 credits)**

Focus on virtual modeling in the context of conceptual design. Study of fundamentals of Building Information Modeling (BIM), iterative design processes, early design analysis techniques, and technical problem-solving processes. Development of modeling skills in various software programs including Autodesk Revit, Formit, Dynamo, and Trimble Sketchup.

**AREN 2010 ARCHITECTURAL ENGINEERING SEMINAR (1 credit)**

This course will inform students about careers in Architectural Engineering and about non-technical issues of engineering practice. It will include visits to offices and job sites, and talks by practicing professionals. Professional, ethical, social, and environmental issues will be addressed. Students will gain experience in teamwork, and in presentation of information.

**Prerequisite(s):** AREN 1010 or AE 1010; 30 credit hours completed

**AREN 2030 DESIGN AND SIMULATION STUDIO II (3 credits)**

Focus on building systems as integral elements in architecture, building and construction assemblies, materials and methods, fabrication, and tectonic exploration using building information modeling (BIM) processes. Exposure to building construction systems, stereotomic and tectonic construction assemblies, and fundamentals of the architectural design process.

**Prerequisite(s):** AREN 1030 or AE 1030 Design and Simulation Studio I

**AREN 2110 THERMODYNAMICS FOR ARCHITECTURAL ENGINEERING (3 credits)**

First and Second Laws of Thermodynamics, properties of gases and vapors. Sources of energy and its conversion to work. Applications on Architectural Engineering and Construction.

**Prerequisite(s):** MATH 1960, PHYS 2110. Not open to non-degree graduate students.

**AREN 2250 CONSTRUCTION GRAPHICS AND DESIGN PROCESS (3 credits)**

Introduction to typical computer-graphics and calculation applications used in a contemporary architectural engineering design office. Extensive use of CADD and electronic spreadsheet software to solve typical analysis and design problems. Fundamentals of descriptive geometry and two and three-dimensional drawing systems. Use of drawing conventions common to construction design. Basics of personal computer applications. Conceptual review of engineering design and technical problem solving processes.

**AREN 2400 BUILDING SYSTEMS (3 credits)**

Building systems as integral elements in architecture; building assemblies and materials; building system relationships; communication of ideas between design professionals, clients, contractors and manufacturers; construction drawings and specifications.

**Prerequisite(s):** AREN 2250 or AE 2250

**AREN 3030 AE DESIGN AND SIMULATION STUDIO III (3 credits)**

A comprehensive focus on building design and construction through integrating program, structure, site, and enclosure aligned with architectural engineering. Topics include structure and construction assemblies; envelope performance; and whole building organization and space-making using BIM processes.

**Prerequisite(s):** AREN 3030 or permission of instructor

**AREN 3070 MECHANICS OF MATERIALS LAB (1 credit)**

Introduction to the behavior and testing of various building materials. The concepts of axial stress and strain, flexural stress and strain, beam deflections and column buckling.

**Prerequisite(s):** Coreq: MECH 3250.

**AREN 3100 HVAC FUNDAMENTALS (3 credits)**

Topics will include an introduction to the types of air conditioning systems; the properties of moist air, psychometric processes in HVAC equipment; indoor air quality; thermal comfort; heat transmission in buildings; solar radiation; and the calculation of building infiltration rates, space heating loads and space cooling loads.

**Prerequisite(s):** MECH 2000 or MENG 2000; corequisite AREN 4040

**AREN 3120 MECHANICAL SYSTEMS FOR BUILDINGS (3 credits)**

Fluid flow, pumps, and piping design; space air diffusion; fans, ducts, and building air distribution; refrigeration equipment.

**Prerequisite(s):** AREN 3100 or AE 3100 and CIVE 310 and CIVE 319

**AREN 3130 HVAC LAB (1 credit)**

Conduct experiments and prepare written reports involving fluid flow, pumps, fans, ducts, piping; basic heat transfer and thermodynamic principles.

**Prerequisite(s):** AREN 3100 or AE 3100 and CIVE 310 and CIVE 319

**AREN 3200 LIGHTING I: FUND FOR DESIGN (3 credits)**

Introduction to illumination engineering for building interiors. Topics include the fundamentals of light and vision, lighting equipment, requirements for building lighting, and basic illuminating engineering design methods.

**Prerequisite(s):** ECEN 211

**AREN 3220 ELECTRICAL SYSTEMS FOR BUILDINGS I (3 credits)**

Study of basic design of building electrical systems including circuit design, power distribution and service equipment, communications systems, and special electrical systems.

**Prerequisite(s):** ECEN 211

**AREN 3230 LIGHTING AND ELECTRICAL SYSTEMS LAB (1 credit)**

General introduction to lighting and electrical systems in building interiors, through hands-on exercises using a range of currently available lighting and electrical technologies. Topics include: principles of object modeling, lamp and luminaire workshops, field measurements of lighting and electrical systems, motor workshop, power consumption and power factor workshops.

**Prerequisite(s):** AREN 3200 or AE 3200; coreq AREN 3220

**AREN 3300 BUILDING ACOUSTICS FUNDAMENTALS (3 credits)**

An introduction to the acoustics of buildings. Topics include the fundamentals of sound generation, propagation, and measurement; human hearing; acoustic properties of materials and constructions; basic room acoustics; and noise control.

**Prerequisite(s):** PHYS 2120

**AREN 3770 GLOBAL EXPERIENCES IN ARCHITECTURAL ENGINEERING (1-3 credits)**

Individual or group educational experience in Architectural Engineering that combine classrooms, lectures, discussions, and/or seminars with field and/or classroom studies in a foreign country. Choice of subject matter and coordination of on- and off-campus activities are at the discretion of the instructor.

**AREN 3920 INDIVIDUAL INSTRUCTION IN ARCHITECTURAL ENGINEERING III (1-3 credits)**

Individual instruction in Architectural Engineering at the junior level in a selected area, under the supervision and guidance of an Architectural Engineering faculty member.

**AREN 3940 SPECIAL TOPICS IN ARCHITECTURAL ENGINEERING III (3 credits)**

Special topics in Architectural Engineering at the junior level that are not yet covered in other courses in the Architectural Engineering curriculum.

**Prerequisite(s):** Permission of instructor.

**AREN 4020 ARCHITECTURAL ENGINEERING SENIOR DESIGN PROJECT IN LIGHTING (4 credits)**

Senior design project that integrates lighting design and illuminating engineering through a semester long design problem. A self-directed execution of the lighting design process culminating with a professional design solution.

**Prerequisite(s):** AREN 3220 or AE 3220; AREN 4200 or AE 4200

**AREN 4030 AE DESIGN AND SIMULATION STUDIO IV (3 credits)**

Advanced topics in Building Information Modeling (BIM) are presented including modeling tools and processes for building engineers, designers, contractors, and operators. BIM management throughout the building lifecycle, technical engineering use cases, and specific topics in virtual reality, simulation, augmented reality, and graphical programming environments are covered. Advanced topics relevant to all AE fields include collaborative design and interoperability.

**Prerequisite(s):** AREN 3030

**AREN 4040 BUILDING ENVELOPES (3 credits)**

Design and analysis of building envelopes is an important and interdisciplinary topic within the Architectural Engineering field that relates to all AE subdisciplines (lighting, electrical systems, structures, mechanical systems, and acoustics). This introductory Building Envelopes course is created to supplement the sub-discipline specific introductory courses as well as combine some of these topics under the umbrella of building envelopes. It aims to fill an important gap in the BSAE curriculum and cover a comprehensive introduction to the processes of Building Energy Modeling.

**Prerequisite(s):** MECH 200 or MENG 2000; junior standing; corequisite: AREN 3100

**AREN 4120 BUILDING ENERGY II: PRIMARY AND SECONDARY SYSTEMS (3 credits)**

Analysis and design of building air distribution systems, fans, pumps, piping, space air diffusion and heat exchangers.

**Prerequisite(s):** AREN 3100 or AE 3100; CIVE 310

**AREN 4150 HVAC DESIGN (4 credits)**

Develop and design the mechanical system for an actual building, from the programming phase to the final construction documents.

**Prerequisite(s):** AREN 4120 or AE 4120. Not open to non-degree graduate students.

**AREN 4200 LIGHTING II: THEORY, DESIGN & APPLICATION (3 credits)**

Design and analysis of lighting systems; the emphasis is on the integration between the lighting design process and the technical foundations for building lighting; topics include design criteria; lighting design procedures, lighting modes and subjective effects; calculation tools. Lab sessions include photometric measurements and computer applications. (Cross-listed with AREN 8206).

**Prerequisite(s):** AREN 3200 or AE 3200

**AREN 4250 LIGHTING DESIGN (4 credits)**

Advanced design and analysis of lighting systems. Application of the lighting design process for advanced interior applications such as multimedia facilities, and outdoor applications such as sports lighting. (Requires the initiation of the design process, proceeding in a self-directed manner through intermediate steps, and producing professional lighting design solutions.)

**Prerequisite(s):** AREN 4200 or AE 4200. Not open to non-degree graduate students.

**AREN 4300 ADVANCED NOISE CONTROL (3 credits)**

Characterization of acoustic sources; use and measurement of sound power and intensity; sound-structure interaction; acoustic enclosures and barriers; muffling devices; vibration control; and active noise control. (Cross-listed with AREN 8306).

**Prerequisite(s):** AREN 3300 or AE 3300

**AREN 4420 HEALTHCARE DESIGN AND CONSTRUCTION (3 credits)**

Introduction to the design and construction of healthcare facilities. Healthcare regulations and standards, infection control, interim life safety measures, code requirements, medical equipment selection and coordination, healthcare design and construction techniques, and best practices will be addressed. Provides guidance in preparation for the Certified Healthcare Constructor credential offered by the American Healthcare Association. (Cross-listed with AREN 8426, CNST 842, CNST 442).

**Prerequisite(s):** Senior or graduate standing

**AREN 4600 SMART BUILDING SENSORS AND PROGRAMMING (3 credits)**

Principles of modeling, interfacing, and signal conditioning of sample building sensors, and acquisition and analysis of data utilizing engineering programming language such as LabVIEW and analysis of data from different types of building sensors. Overview of current sensing technology and control in buildings. (Cross-listed with AREN 8600).

**Prerequisite(s):** CIST 1400

**AREN 4620 MEMS SENSORS DYNAMICS (3 credits)**

Study of the dynamics of Microelectromechanical system (MEMS) beam-structures. Modeling principles and data analysis from different types of MEMS will be explained along with deep theoretical and experimental investigation of nonlinear MEMS dynamics. Learn to conduct experiments using state-of-the-art MEMS characterization tools. (Cross-listed with AREN 8626).

**Prerequisite(s):** Instructor Permission

**AREN 4920 INDIVIDUAL INSTRUCTION IN ARCHITECTURAL ENGINEERING IV (1-3 credits)**

Individual instruction in Architectural Engineering at the senior level in a selected area, under the supervision and guidance of an Architectural Engineering faculty member.

**Prerequisite(s):** Instructor Permission

**AREN 4940 SPECIAL TOPICS IN ARCHITECTURAL ENGINEERING IV (3 credits)**

Special topics in Architectural Engineering at the senior level that are not yet covered in other courses in the Architectural Engineering curriculum.

**Prerequisite(s):** Permission of instructor.

# Art (ART)

## Art Undergraduate Courses

**ART 1010 ART APPRECIATION (3 credits)**

This course is designed as an introductory-level art history for the non-art major. It surveys the aesthetic principles of the visual arts and their interpretation in a socio-historical context. (May not be taken for major credit.) Lab fee required.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**ART 1040 GLOBAL INDIGENOUS ART (3 credits)**

This introductory course explores Indigenous architecture, paintings, sculpture, and decorative arts of six geographic regions: Africa, Mesoamerica, North America, South America, Asia, and Oceania. Students will examine the religious beliefs, ritual practices, and politics embedded within the production of Indigenous artworks. The class will also examine contemporary artworks to understand the continuity and innovation of cultural traditions and the importance of repatriation. Lab fee required.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**ART 1100 FOUNDATION: DRAWING (3 credits)**

This course is an introduction to the essential tools of art making through an active exploration of drawing mediums and design concepts. The focus is on the development of conceptual and technical skills used in contemporary studio practice. The course will have a strong emphasis on learning to see in the context of an observational studio practice.

**Prerequisite(s):** Lab fee required.

**ART 1110 FOUNDATION: 3D DESIGN (3 credits)**

This course is an introduction to the technical and conceptual aspects of three dimensional design, focusing on drawing and sculpture problems. Students will develop an understanding of 3-D design components and principles, learn handmade and shop oriented technologies, and explore analytical and conceptual drawing. They will also address critical skills and the cultural analysis of art practice.

**Prerequisite(s):** Lab fee required.

**ART 1210 FOUNDATION: 2-D DESIGN (3 credits)**

This course is an introduction to the elements and principles of design utilizing a variety of 2-D media and formats. These will be investigated through compositional strategies, studio techniques, gestalt understanding, critical thinking and concepts of contemporary methodologies in art making. Lab fee required.

**ART 1220 FOUNDATION: DIGITAL MEDIA (3 credits)**

An introduction to digital art and design skills, nomenclature, and practice while learning aesthetics and art and design history. Students learn to balance practical knowledge with visual, theoretical, and historical frameworks, and they complete digital skills exercises that incorporate art and design history. These digital skills are then practiced and reinforced with more in-depth art and design projects.

**Prerequisite(s):** Lab fee required.

**ART 1600 INTRODUCTION TO ARTS EDUCATION (1 credit)**

This course is designed to provide an overview of the arts education profession. It will focus on the history, philosophy, and fundamentals of arts education in the United States. (Cross-listed with MUS 1600).

**ART 1810 WATERCOLOR I (3 credits)**

This course cover beginning watercolor techniques with basic water media skills taught in the class. No experience is necessary for students enrolled in 1810.



**ART 1820 WATERCOLOR II (3 credits)**

This course will review fundamental methods and techniques associated with watercolor painting and will introduce more advanced techniques. Advanced watercolor students submit a written contract for their semester plan which includes the concept or content and approximate number of paintings. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 credit hours.)

**Prerequisite(s):** ART 1810

**ART 2000 CORE ONE PORTFOLIO REVIEW (0 credits)**

ART 2000 Core One Portfolio Review is a zero credit hour course offered every Fall and Spring semester. All BASA majors on the 2013-14 catalog year and after must complete the ART 2000 Core I Portfolio review to graduate with the BASA or BFA major. ART 2000 will usually be completed during the sophomore year; i.e. between 27 and 57 credit hours, but may be completed later.

**Prerequisite(s):** Students must complete ART 1100; ART 1110; ART 1210; ART 1220. Not open to non-degree graduate students.

**ART 2050 SURVEY OF WESTERN ART HISTORY I (3 credits)**

A survey of the major developments in painting, sculpture and architecture from Paleolithic cave paintings through the Middle Ages.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**ART 2060 SURVEY OF WESTERN ART HISTORY II (3 credits)**

This course is a survey of the major developments in painting, sculpture and architecture from the Renaissance to the 20th century. Lab fee required.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**ART 2070 ART OF INDIA AND SOUTHEAST ASIA (3 credits)**

A study of the arts of India and cultures under its influence, with attention to religious and philosophical background. Lab fee required.

**Prerequisite(s):** Sophomore standing. Not open to non-degree graduate students.

**ART 2080 ART OF CHINA AND JAPAN (3 credits)**

This course is a study of the arts of China and Japan, with attention to religious and philosophical backgrounds. Lab fee required.

**Prerequisite(s):** Sophomore standing. Not open to non-degree graduate students.

**ART 2100 LIFE DRAWING I (3 credits)**

Life Drawing I is an introduction to drawing the human form. The goal of the course is to introduce drawing media and relate them to the problems of drawing the figure. Both perceptual and conceptual skill building are emphasized. Lab fee required.

**Prerequisite(s):** ART 1100 and ART 1210.

**ART 2110 LIFE DRAWING II (3 credits)**

Life Drawing II is an expansion of the instruction and skill set obtained during Life Drawing I. This course continues to assist the student become aware of unfamiliar forms in the figure. Perceptual and conceptual skill building is again emphasized. Lab Fee required.

**Prerequisite(s):** ART 2100

**ART 2200 TYPOGRAPHY (3 credits)**

Typography is foundational to the practice of graphic design and the Graphic Design Concentration sequence. This intensive studio course focuses on the skills, theory, history and practice of typography.

**Prerequisite(s):** ART 1220 and ART 3130

**ART 2300 WEB DESIGN (3 credits)**

This course is an introduction to basic web design skills and topics, with an emphasis on design and visual communication.

**Prerequisite(s):** ART 1220. Not open to non-degree graduate students.

**ART 2600 SURVEY OF COMICS: MORE THAN CAPES AND TIGHTS (3 credits)**

This course is a survey of the history of the Western comic from its earliest days to the modern era.

**Prerequisite(s):** Not open to non-degree graduate students.

**ART 2610 EXPLORATION OF GLOBAL COMICS (3 credits)**

This course is a survey of the history, influences and evolution of comics from countries around the world such as France, Italy, the Middle East, Japan, South America and Africa. Students will come to understand how comics grew and evolved under different social, political and cultural climates around the world.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**ART 2910 OBSERVATIONAL DRAWING FOR SKETCHBOOK (3 credits)**

This studio course focuses on drawing from observation in the studio and in public space. Students will work to develop a sketchbook drawing practice utilizing both dry and wet media. We will draw on-location around campus and around Omaha. Students will practice drawing the human figure without the use of a traditional model and develop their technical and expressive skills in drawing architecture, nature, and found objects.

**Prerequisite(s):** ART 1100 or by permission of instructor

**ART 2920 ILLUSTRATION 1: INTRODUCTION TO ILLUSTRATION (3 credits)**

This studio course focuses on the fundamentals of visual storytelling. Using a combination of digital and traditional techniques students will complete projects in editorial, sequential, instructional, advertisement, surface pattern design and visual development illustration. The primary emphasis for this course will be to learn the illustration process from initial research, ideation and comp sketching to drafts and finishes. Students will learn industry standards as they model the client-illustrator relationship through multiple rounds of review. Time will be spent looking at historic and contemporary examples. Students will collect and analyze illustrations that appeal to them in order to establish their visual taste and direct their personal styles. For Illustration concentration students the class will culminate in a mid-program review where students submit their work in order to qualify to continue in the concentration.

**Prerequisite(s):** ART 1100, ART 1220, or by permission of instructor

**ART 3000 MEDIA ARTS 1 (3 credits)**

This course is an introduction and overview to the concentration of Media Arts. The curriculum is designed to provide a basic knowledge of electronic imaging and production techniques for students wishing to continue in digital media or those working with media production artists. Areas introduced will be Digital Image Production, Digital Video Production, and Animation.

**Prerequisite(s):** Art 1220 or permission of instructor

**ART 3100 ADVANCED DRAWING I (3 credits)**

Instruction in drawing at an advanced level to develop practical skills and techniques through directed classroom projects.

**Prerequisite(s):** ART 1100

**ART 3110 ADVANCED DRAWING II (3 credits)**

Instruction in drawing at an advanced level to develop practical skills and techniques through directed classroom projects. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.)

**Prerequisite(s):** ART 1100 and ART 3100

**ART 3120 MEDIA ARTS 2 (3 credits)**

Advanced overview of Intermedia and digital production as well as critical theory for artists. The course includes both fine art and applied uses of Intermedia and digital art through the development of individual and group projects using digital and electronic media means.

**Prerequisite(s):** Art 3000 or permission of instructor.



**ART 3130 GRAPHIC DESIGN 1 (3 credits)**

The first course in the Graphic Design sequence, Graphic Design I is an upper division course focusing on the essential elements of Graphic Design as a discipline and practice. Working individually, students learn the tools, terminology, theory, and history of Graphic Design as a professional and artistic practice. Focused attention and time is spent learning conceptualization skills, digital skills, design practice and the relationship between the designer and their social and historical context.

**Prerequisite(s):** ART 1220, or permission of instructor

**ART 3140 COMPUTER-GENERATED IMAGERY (CGI) I: INTERACTIVE 3D VIRTUAL SPACES (3 credits)**

This course introduces students to basic principles and aesthetic considerations of computer-generated imagery and interactive virtual spaces. The course will focus on using computers as a tool to create three-dimensional virtual art forms and design interactive art spaces and navigable virtual/game worlds. The course exposes students to various theoretical and aesthetic positions and encourages them to think of CGI and virtual space building as an art-making process. Students will produce artwork by acquiring technical skills and exploring creative uses within the medium.

**Prerequisite(s):** ART 1220 or permission of the instructor

**ART 3150 VIDEO ART (3 credits)**

An introduction to video art production and critical theory for artists. The course exposes students to a variety of theoretical and aesthetic positions and encourages them to think of video as an art making process rather than mass media product. Students are required to produce a number of video art works. Production rather than consumption is stressed as a pedagogical mode.

**Prerequisite(s):** ART 3000 or permission of instructor

**ART 3160 GAME DESIGN AS ART (3 credits)**

This course will encompass theory and practice of game development, game creation as an art process, and an exploration of the work of artists who have created game based work. Areas of study during the course will include game design and mechanics, explorations of theory, narrative and storytelling with game paradigms, social and ethical concerns of gaming and gaming as cultural resistance.

**Prerequisite(s):** Not open to non-degree graduate students

**ART 3170 DIGITAL GAME DESIGN (3 credits)**

This course provides an introduction to digital game development. It will explore all aspects of creating 2d games. Students will work on individual and team projects. Students will learn to do concept art, pre-production planning, prototyping and testing, all working towards creating completed games.

**Prerequisite(s):** Non-degree graduate students not allowed.

**ART 3200 LETTERPRESS 1 (3 credits)**

Using moveable metal and wood type and other relief surfaces, students will design and print several letterpress-based projects on a Vandercook Proof press. In addition to learning the techniques of letterpress printing, students will be introduced to the history of letterpress through assigned readings, presentations, and in-class discussions. Throughout this course, we will combine traditional and experimental printing methods to create projects that exemplify fine printing techniques in order to join in the conversation with contemporary print culture. You will be asked to consider the relationship between form and content, and between text and image on the printed page.

**ART 3210 COLOR THEORY (3 credits)**

Instruction in the study of color through directed classroom assignments.

**Prerequisite(s):** ART 1110 and ART 1210

**ART 3220 HAND PRODUCED BOOK II: LETTERPRESS PRINTING (3 credits)**

Continuing work in typography and book design with an emphasis on book illustration, multi-color printing, and the standardization and control of edition work. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.) Lab fee required.

**Prerequisite(s):** ART 3200

**ART 3230 BOOK STRUCTURES (3 credits)**

This course investigates basic approaches to bookbinding, introducing students to the history, tools, and techniques of the discipline. Students execute a variety of adhesive and non-adhesive bindings, including the pamphlet, the accordion, the linkstitch, and the drumleaf. Students utilize these and other experimental structures to create artist books that make dynamic use of text & image pairings and explore sequencing of visual content, with a focus on materials and the overall experience of the book. Lab fee required.

**ART 3250 PATTERNED PAPER (3 credits)**

This course examines various techniques employed in the creation of decorative patterned papers traditionally used in bookbinding for both cover material and/or end sheets. The emphasis of the course will be on effective pattern design, the mastery of pattern paper production methods, and fine craft standards. Lab fee required.

**ART 3300 ELEMENTARY ART METHODS (3 credits)**

Study of the theory, methods, curriculum and recent research affecting art education with emphasis on the elementary art program. Student must complete a 50-hour practicum which occurs outside of scheduled class time. Lab fee required.

**Prerequisite(s):** Students must be formally admitted to the College of Education Educator Preparation Program; PK-12 Art Education Majors only; 2.75 NU GPA. Lab Fee Required.

**ART 3310 ELEMENTARY SCULPTURE (3 credits)**

This course begins the exploration of the 3-dimensional artistic form which can be constructed using a variety of materials including clay, plaster, wood, steel and new media. Lab fee required..

**Prerequisite(s):** ART 1110

**ART 3320 INTERMEDIATE SCULPTURE (3 credits)**

Intermediate Sculpture continues and expands upon the elementary level of sculpture and builds upon methods, technologies, problem solving and professional practice. Lab fee required.

**Prerequisite(s):** ART 3310

**ART 3330 ART IN PUBLIC PLACES (3 credits)**

The goal of this course is to introduce students to the concepts and practice related to displaying artwork in public places. Following a thorough examination of the history of public art, the course will focus on the various visual languages and iconography appropriate for public venues. The course emphasizes building original artwork using both traditional and digital technologies, displaying work in public spaces, artist responsibilities and related professional practice.

**Prerequisite(s):** ART 1110

**ART 3340 DIGITAL SCULPTURE - DESIGN AND BUILD TECHNOLOGIES (3 credits)**

The goal of this course is to introduce students to the methods of designing objects in a digital environment and realizing them as objects in the physical world. Students will learn to create forms using a variety of 3D modeling software and scanning technologies. The course will introduce students to the Autodesk suite of programs, including 3D Studio Max, Maya Inventor, 123D Catch, as well as Zbrush. Once students have achieved a high level of competency on the computer, the class will begin exploring systems for building their creations. Using Make 123D, Pepakura and Makerware students will fabricate objects in plastic, cardboard and wood. Additionally, the class will address both the artistic and functional applications of these methods.

**Prerequisite(s):** ART 1110

**ART 3360 APPLIED ART & DESIGN (3 credits)**

This course is designed to present an opportunity for education and other undergraduate students to develop basic skills, knowledge and appreciation of the arts and crafts of our culture and other world cultures. The course content will be individualized for the purposes of adapting methods, values, content, and media for students working with special populations or in special settings. Lab fee required.

**Prerequisite(s):** Sophomore.

**ART 3370 TECHNOLOGY IN ARTS EDUCATION (3 credits)**

This course is specifically designed for pre-service art teachers to learn how to integrate media arts, visual and instructional technology, and digital visual culture into arts curriculum appropriate for application to K-12 contexts. Students will critically examine digital arts, digital art media and technology, and digital visual culture environments and address pedagogical and implementation issues as they simultaneously create their own digital art and digital visual culture. Lab fee required.

**Prerequisite(s):** Prereq: TED 2400; K-12 ART/ED majors only. Coreq: ART 3300. With permission of the instructor. Senior standing. Lab fee required. Not open to non-degree graduate students.

**ART 3410 ELEMENTARY PAINTING (3 credits)**

Instruction in oil painting permits each student the time and environment to work and develop individually. Perceptual and conceptual skill building emphasized. Knowledge of contemporary painting integral to painting practice. Lab fee required.

**Prerequisite(s):** ART 1100 and ART 1210

**ART 3420 INTERMEDIATE PAINTING (3 credits)**

Instruction in oil painting permits each student the time and environment to work and develop individually. Emphasis on developing cohesive body of work in context of experimentation. Knowledge of contemporary painting integral to painting practice. Lab fee required.

**Prerequisite(s):** ART 3410

**ART 3440 EXPLORING ART THERAPY (3 credits)**

This course provides an overview of the field of art therapy and the use of therapeutic art. Topics covered include: The historical use of art as healing across cultures, the contemporary use of art therapy with various populations and settings; an introduction to the theories, techniques; and the profession of art therapy. Students participate in representative art therapy activities, but previous art experience is neither required nor expected. This course does not qualify participants to practice art therapy but will provide information on its safe and effective utilization by health professionals. (Cross-listed with MEDH 3440, THEA 3440, WRWS 3440).

**Prerequisite(s):** Junior standing or permission of the department.

**ART 3510 ELEMENTARY PRINTMAKING (3 credits)**

This is an introductory course to the history and studio practices of printmaking. Lab fee required.

**Prerequisite(s):** ART 1100 and ART 1210

**ART 3520 PHOTOGRAPHIC DIGITAL PRINTMAKING (3 credits)**

Introduction to photographic and digital printmaking technologies including pre-press and printing techniques. Lab fee required.

**Prerequisite(s):** ART 1100 and ART 1210

**ART 3530 PAPERMAKING (3 credits)**

This course examines the history and techniques of classic papermaking, sheet formation and producing edition sheets. Lab fee required.

**Prerequisite(s):** ART 1110 and ART 1210

**ART 3610 ELEMENTARY CERAMICS (3 credits)**

This course is an introduction to the medium of ceramics. The focus of this course will be the use of clay as a sculptural medium with the emphasis on various, basic techniques for creating objects in clay. Lab fee required.

**Prerequisite(s):** ART 1110

**ART 3620 INTERMEDIATE CERAMICS (3 credits)**

This course is a continuation of processes covered in the Elementary Ceramics course with basic pottery techniques utilizing the wheel, hand building, object prototyping and advanced mold making. Additional emphasis will be on scale and completion of mid-to large size projects.

**Prerequisite(s):** ART 3610. Lab fee required.

**ART 3700 INTRODUCTION TO ANCIENT ART (3 credits)**

This course provides an introduction into the art and cultures of the ancient Mediterranean areas. Lab fee required.

**Prerequisite(s):** ART 2050 or permission of instructor. Not open to non-degree graduate students.

**ART 3710 EGYPTIAN ART (3 credits)**

This course will examine ancient Egyptian culture through its art and architecture. Lab fee required.

**Prerequisite(s):** For Fine Arts majors, completion of Art 2050 & Art 2060 (prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required. Not open to non-degree graduate students.

**ART 3720 GREEK ART (3 credits)**

This course will immerse students in the art and culture of ancient Greece. Lab fee required.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required. Not open to non-degree graduate students.

**ART 3730 ETRUSCAN & ROMAN ART (3 credits)**

This course provides an in-depth investigation of Etruscan and Roman civilizations. Lab fee required.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required. Not open to non-degree graduate students.

**ART 3750 AMERICAN ART (3 credits)**

This course provides a study of art, architecture, and material culture produced in the United States approached through varied contexts (artistic, religious, political, economic, etc.) and methodologies. Lab fee required.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required. Not open to non-degree graduate students.

**ART 3760 RESEARCH, WRITING, AND COMMUNICATION FOR CAREERS IN ART (3 credits)**

This class prepares students for advanced level art history courses as well as a career in art history and/or related fields. Basic skills such as critical thinking, analytical reading, traditional and innovative research methods, writing, and public speaking will be emphasized.

**Prerequisite(s):** ART 2050 and ART 2060

**ART 3770 HISTORY OF ARCHITECTURE TO 1850 (3 credits)**

A survey of the history, aesthetics and technical developments in architecture from ancient times to the middle of the 19th century. Lab fee required.

**Prerequisite(s):** None. Recommended: ART 2050 or ART 2060 (prereq or coreq).

**ART 3780 HISTORY OF ARCHITECTURE SINCE 1850 (3 credits)**

This course is a survey of the history of architecture since the coming of the industrial age, including the major schools and movements in architecture of the 20th century.

**Prerequisite(s):** None. Recommended: ART 2050 or ART 2060. Lab fee required.

**ART 3800 HISTORY OF DESIGN (3 credits)**

The history of modern global design movements, primarily 1851 to present. The movements cover a range of media, from graphic arts and industrial design to furnishing and interior design.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 3830 HISTORY OF PHOTOGRAPHY (3 credits)**

This course provides an introduction to the history of photography from its earliest forms to that of contemporary society and culture. Lab fee required.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 3860 WOMEN IN ANCIENT AND MEDIEVAL ART (3 credits)**

The purpose of this course is to provide an introduction of women through the art and culture of the ancient Mediterranean and western Middle Ages.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required. Not open to non-degree graduate students.

**ART 3870 GENDER & SEXUALITY IN MODERN ART (3 credits)**

This course provides an introduction to topics of gender and sexuality in modern art, from 1860 to the present.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 3910 INTERMEDIATE PRINTMAKING (3 credits)**

Intermediate Printmaking expands upon basic printmaking concepts and techniques and includes monotype variations, intaglio techniques, Moku Hanga woodcuts and other woodcut processes. Students will be involved with drawing, creating, problem solving and understanding the printmaking studio and its processes.

**Prerequisite(s):** ART 3510. Not open to non-degree graduate students.

**ART 3920 ILLUSTRATION 2: THE STATIC IMAGE (3 credits)**

This studio course will explore the static image, including but not limited to magazine illustration, book cover illustration, advertisement illustration, single-panel cartoons and background painting for animation. Students will develop their technical ability in digital painting and drawing and enhance their skill sets in ink and watercolor. Projects will be medium specific so that students can hone their craft as they respond to thematic prompts. Students will develop sketchbook practices for research and ideation. Emphasis will be placed on generating original visual ideas, utilizing visual metaphor and interpreting texts. Students will learn to compose and frame their illustrations and apply gestalt design principles to create readable images.

**Prerequisite(s):** ART 2920 or permission of instructor

**ART 4000 SPECIAL SEMINARS IN ART EDUCATION (1-3 credits)**

A series of intensive courses in the history and theory of art education designed specifically for elementary and secondary school art teachers. These courses are scheduled as special seminars or workshops according to purpose. (Cross-listed with ART 8006.)

**Prerequisite(s):** Junior and Department Permission

**ART 4010 SPECIAL TOPICS IN STUDIO ART (3 credits)**

This course concerns itself with a variety of limited topics in the field of Studio Art. At times this course is coordinated with an external event such as a visiting artist, exhibition or study trip. It may also be considered a testing ground for acceptance and interest in a relatively new topic in Studio Arts. Exact content will be determined by the offering instructor.

**Prerequisite(s):** Prerequisites of each 4010 course will be determined by the instructor and therefore will require special permission.

**ART 4020 PROFESSIONAL STUDIO PRACTICES (3 credits)**

This is a capstone course for the Studio Arts area that includes book arts, ceramics, drawing, painting, printmaking, sculpture and media (2D, 3D, and Media). During the semester, students will learn the administrative component that is essential for cultivating and maintaining a sustainable studio practice in art. Activities include writing artist statements, an artist curriculum vitae alongside participating in the simulated arts activities of applying for an exhibition and artist grant and understanding the benefits and liabilities of social media.

**Prerequisite(s):** Students must be of Junior standing. Not open to non-degree graduate students.

**ART 4040 BASA SENIOR ART EXHIBITION (0 credits)**

The BASA Senior Art Exhibition is the culminating experience of the studio art major. The exhibition is a group exhibition required of all senior majors. Although the exhibition is not a credit bearing course, a passing grade is required to graduate. Student work should demonstrate maturity in thought, execution and presentation. The artwork must come from advanced coursework within their chosen concentration and represent a high level of quality, depth of inquiry, and best critical judgement.

**Prerequisite(s):** BASA majors, Seniors in their last academic semester, or permission from instructor. Not open to non-degree graduate students.

**ART 4130 MEDIA ART III (3 credits)**

This is a digital studio course for students interested in exploring interactive digital projects using current or emerging technologies. The course includes both fine art and applied uses of digital art through the development of individual and group projects using digital and electronic media means. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.)

**Prerequisite(s):** ART 3120 or permission of instructor.

**ART 4140 COMPUTER-GENERATED IMAGERY (CGI) II: 3D MODELING (3 credits)**

This course is a continuation of principles and practices introduced in ART 3140. The goal of this course is intended for experienced students to explore advanced principles and aesthetic considerations of computer-generated imagery by creating 3D modeling and sculpting with professional programs (i.e. ZBrush, Maya, or others) for game design, virtual reality, and other applications.

**Prerequisite(s):** ART 3140 or permission of the instructor.

**ART 4150 GRAPHIC DESIGN 2 (3 credits)**

A continuation of the Graphic Design sequence, Graphic Design 2 is an advanced course utilizing the knowledge and skills acquired in Graphic Design 1. In Graphic Design 2 students apply acquired knowledge and skills to solve design problems for more complex systems. Intermediate digital skills are paired with intermediate production and materials problems as students complete product and package design systems. These design systems are then paired with companion web and video components. Additionally, students continue their study of professional practices and presentation skills.

**Prerequisite(s):** ART 3130, or permission of instructor.

**ART 4160 GRAPHIC DESIGN 3 (3 credits)**

A continuation of the Graphic Design sequence, Graphic Design 3 is an advanced, professional simulation course utilizing the knowledge and skills acquired in Graphic Design 1 and 2. Working individually and in teams, students create large-scale design systems over multiple communications channels for consumer product or services. The course culminates in a thesis presentation with accompanying brand book.

**Prerequisite(s):** ART 4150, or permission of instructor.

**ART 4170 GRAPHIC DESIGN STUDIO (3 credits)**

A continuation of the Graphic Design sequence, Design Studio is an advanced, capstone course utilizing the knowledge and skills acquired in Graphic Design 1, 2, and 3. Working individually and in teams, students design thesis research projects, create professional portfolios, present their work to the public, and work on client projects for on and off-campus organizations.

**Prerequisite(s):** ART 4160, or permission of instructor.

**ART 4180 ADVANCED DIGITAL GAME DESIGN (3 credits)**

This course provides an advanced experience to digital game development. It explores all aspects of creating 3d games. Students will work on individual and team projects and will learn concept art, pre-production planning, prototyping and testing while working towards creating completed games using a three dimensional platform.

**Prerequisite(s):** ART 3170 or permission of the instructor. Not open to non-degree graduate students.

**ART 4190 GAME DESIGN STUDIO (3 credits)**

This course provides a capstone study in game development. It explores game design, game prototyping, finalization, distribution and promotion. Students will work in teams to conceptualize, pitch, prototype, and present an audience ready game. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.)

**Prerequisite(s):** ART 3160, ART 3170, or ART 4180 or permission of instructor. Not open to non-degree graduate students.

**ART 4210 PRINTED BOOKS (3 credits)**

This course covers the invention of moveable type through the refinement in printing styles and technology to the present age.

**Prerequisite(s):** ART 3220 and ART 3230 or permission of instructor.

**ART 4220 ILLUSTRATION 3: SEQUENTIAL IMAGES (3 credits)**

This studio course focuses on sequential images. From picture books and comics to greeting cards and how-to instructions, students will learn to frame and pace their images to clearly communicate ideas and emotion. Emphasis will be placed on developing original narratives and understanding the rules of framing and pacing to create readable stories. The semester will culminate with a short self-published comic or picture book.

**Prerequisite(s):** ART 3920 or permission from instructor

**ART 4290 ILLUSTRATION STUDIO (3 credits)**

This is an advanced capstone course for Illustration students who have already taken Illustration 1, 2, and 3. In this course students will choose one illustration field to focus on. From there they will develop their professional portfolio, complete a book project, create an animation demo reel or develop a pitch package. This course will cover industry best practices, contracts, mainstream and alternative career pathways for illustrators.

**Prerequisite(s):** ART 2920, ART 3920, and ART 4220 or permission from instructor

**ART 4300 SECONDARY ART METHODS (3 credits)**

This course is the study of theory, methods, art curriculum content, and recent research in art education relative to art education in middle and high school settings. Students are required to complete a 50-hour practicum that occurs outside of scheduled class time. Lab fee required

**Prerequisite(s):** Students must be formally admitted to the College of Education Educator Preparation Program; ART 3300 or Permission; PK-12 Art Education Majors only; 2.75 NU GPA. Lab Fee Required.

**ART 4310 ADVANCED SCULPTURE (3 credits)**

Advanced work in area of student's choice with facilities for oxyacetylene welding, arc welding and wood working. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.) Lab fee required. (Cross-listed with ART 8316.)

**Prerequisite(s):** ART 3310

**ART 4320 BACHELOR OF FINE ARTS INDEPENDENT STUDY I (3 credits)**

This course is an advanced individualized study in studio art concentration area of Two Dimensional Arts, Three Dimensional Arts, Graphic Design, Illustration, and Media Arts.

**Prerequisite(s):** Advanced level courses in area of concentration, and permission of instructor.

**ART 4330 BACHELOR OF FINE ARTS INDEPENDENT STUDY II (3 credits)**

BFA II is the second semester of an advanced individualized study in a studio art concentration area of Two Dimensional Arts, Three Dimensional Arts, Graphic Design, Illustration, and Media Arts. Lab fee required.

**Prerequisite(s):** Completion of ART 4320 (BFA I) in the area of emphasis.

**ART 4340 BACHELOR OF FINE ARTS INDEPENDENT STUDY III (3 credits)**

This course is the continuation of BFA II for the advanced individualized study in studio art concentration area of Two Dimensional Arts, Three Dimensional Arts, Graphic Design, Illustration, and Media Arts. This course is only used if, for some reason the student is unable to proceed to BFA Thesis after completing BFA II. Lab fee required.

**Prerequisite(s):** Completion of ART 4320 and ART 4330 and permission of instructor as this course is only used when the student is unable to proceed to the BFA Thesis.

**ART 4350 TRENDING TOPICS IN ART EDUCATION (3 credits)**

This is a series of intensive courses dealing with the theory and practice of current trends in art education designed specifically for pre-service art teachers. These courses are scheduled as special seminars or workshops according to purpose. Lab fee may be required.

**Prerequisite(s):** Prereq: TED 2400; K-12 ART/ED majors only. Senior standing or permission of instructor

**ART 4410 ADVANCED PAINTING (3 credits)**

Advanced instruction in oil painting permits students the time and environment to work and develop individually. Emphasis on developing cohesive body of work as continuation from work done in Intermediate painting. Knowledge of contemporary painting integral to painting practice. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.) Lab fee required. (Cross-listed with ART 8416.)

**Prerequisite(s):** ART 3420

**ART 4420 BACHELOR OF FINE ARTS THESIS (3 credits)**

This course is the culmination of the BFA process with an individually designed study in studio art concentration area of Two Dimensional Arts, Three Dimensional Arts, Graphic Design, Illustration, and Media Arts. A faculty committee and thesis exhibition are required for completion of this course. Lab fee required.

**Prerequisite(s):** Completion of ART 4320 and ART 4330 and permission of instructor.

**ART 4440 INDEPENDENT STUDY IN STUDIO ART (1-3 credits)**

This course is an independent study with variable credit for studio art students who have already taken the most advanced level course in their chosen degree program.

**Prerequisite(s):** This course requires permission from instructor.

**ART 4510 ADVANCED TECHNIQUES IN PRINTMAKING (3 credits)**

This course allows students to develop their skills in both lithography and intaglio and the color processes for each printmaking technique. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.) Lab fee required. (Cross-listed with ART 8516.)

**Prerequisite(s):** ART 3510



**ART 4530 ART INTERNSHIP (0-3 credits)**

A tutored internship at a local arts institution that will introduce students to following areas of concentration: Curatorial Collections Research, Education Outreach, and Preparation/Installation. Working as an Artist's Studio Assistant or in the areas of Web page design or graphic design are also appropriate internship projects. Ideally, the internship should provide the student with an opportunity to gain pre-professional experiences and skills. It should also increase his or her awareness of current issues and practices within the field of art.

**Prerequisite(s):** Reserved for studio art (BASA & BFA), Art Education, or Art History majors. Permission of Faculty Advisor & Intern Sponsor required. Advanced art history, art education, or studio courses may be required.

**ART 4610 ADVANCED CERAMICS (3 credits)**

This course will consist of advanced work on the potter's wheel, casting and preparations in glaze composition, as well as loading and firing of a high-fire kiln. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.) Lab fee required. (Cross-listed with ART 8616.)

**Prerequisite(s):** ART 3610

**ART 4730 CLASSICAL ART HISTORY (3 credits)**

This course is a study of painting, sculpture, architecture and minor arts of the classical world beginning with Cycladic art and including Minoan, Mycenaean, Greek, Etruscan and Roman art through 300 A.D. Lab fee required. (Cross-listed with ART 8736.)

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 4740 INTRODUCTION TO COLLECTIONS MANAGEMENT (3 credits)**

This course focuses on collections management and will offer insights into collections care practices and standards. It requires a team to provide the appropriate range of care necessary to maintaining diverse collections of objects. Lectures and talks will include those presented by top experts in the field. Students will gain invaluable insights and practical knowledge of effective collections management. Course content will include theoretical and practical components to introduce policies and procedures, database systems, fine art insurance and shipping, object handling, conservation and installation standards.

**Prerequisite(s):** Sophomore standing or permission of the instructor.

**ART 4750 LATE ROMAN AND BYZANTINE ART HISTORY (3 credits)**

A study of painting, sculpture and architecture of the Eastern Roman Empire from the founding of Constantinople, and of Western Europe from the time of Constantine to the dissolution of the Western Roman Empire. Lab fee required. (Cross-listed with ART 8756.)

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 4760 TECHNICAL ART HISTORY (3 credits)**

Technical art history, which investigates the materials and techniques of artworks, and the scientific methods used to study them, is one of the fastest growing areas of art history. Knowledge of the physical properties of an art object, often revealed only through scientific tools, can provide crucial insights into its origins, creative genesis and development, dating, alterations, and best approaches to restoring or conserving it. This course explores the techniques and materials used in the creation of a select body of artworks and the scientific methods of examination and their applications. Site visits required as scheduled.

**Prerequisite(s):** ART 2050 and ART 2060

**ART 4770 EARLY MEDIEVAL ART (3 credits)**

This course provides a study of painting, sculpture and architecture of Western Medieval Art. Lab fee required.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 4780 LATE MEDIEVAL ART HISTORY (3 credits)**

This course is a study of painting, sculpture and architecture of the European Middle Age periods of Romanesque and Gothic Art. Lab fee required.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required. Not open to non-degree graduate students.

**ART 4810 NORTHERN EUROPEAN RENAISSANCE ART HISTORY (3 credits)**

This course is a study of the paintings, sculpture and architecture during the 14th, 15th and 16th centuries in France, the Low Countries, Germany, Spain and England. Lab fee required.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required. Not open to non-degree graduate students.

**ART 4830 ITALIAN RENAISSANCE ART HISTORY (3 credits)**

Study of painting, sculpture and architecture in Italy during the 14th, 15th and 16th centuries. Lab fee required. (Cross-listed with ART 8836.)

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 4850 BAROQUE AND ROCOCO ART HISTORY (3 credits)**

This course is a study of painting, sculpture and architecture in Europe during the 17th and 18th centuries. Lab fee required. (Cross-listed with ART 8856.)

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 4880 MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) (3 credits)**

A study of the most significant developments in European art and architecture dating from the early Modern period and examined in varied contexts (artistic, religious, political, economic, etc.). (Cross-listed with ART 8886.)

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 plus junior standing. For non-majors, junior standing and permission of the instructor are required. Lab fee required.

**ART 4890 MODERN ART II (ART OF EUROPE AND THE AMERICAS, 1918-1968) (3 credits)**

This course explores the major artistic movements and artists active in Europe and the Americas between the end of WWI and the Vietnam Era circa 1968. (Cross-listed with ART 8896.)

**Prerequisite(s):** For Fine Arts majors, completion of Art 2050 & Art 2060 plus junior standing. For non-majors, junior standing and permission of the instructor are required. Lab fee required.

**ART 4900 CONTEMPORARY ART HISTORY SINCE 1968 (3 credits)**

This course introduces contemporary visual arts in a global context from 1968 to the present with topics of discussion including art, aesthetics, politics, gender and sexuality, race and economics. (Cross-listed with ART 8906.)

**Prerequisite(s):** For Fine Arts majors, completion of Art 2050 & Art 2060 plus junior standing. For non-majors, junior standing and permission of the instructor are required. Lab fee required.

**ART 4910 INDEPENDENT STUDY IN ART HISTORY (1-3 credits)**

This course is an independent research project under the direct supervision of the sponsoring faculty member, generally involving the writing of a paper. Lab fee required.

**Prerequisite(s):** Art History major in upper division and permission of instructor.



**ART 4920 ART IN THEORY AND IN PRACTICE SINCE 1900 (3 credits)**

This course introduces BFA students to the essential theories and critical positions that have shaped the practice of contemporary art in the West since 1900. It also addresses the purpose and nature of the artist's statement, the studio critique, the exhibition, and professionally written art criticism.

**Prerequisite(s):** Acceptance in BFA program, ART 2050 & ART 2060, & ART 4890 or ART 4900. Other students will need instructor's permission. Students not meeting the min qualifications or instructor's permission will be dropped. Not open to non-degree graduate students.

**ART 4930 SPECIAL TOPICS IN ART HISTORY (3 credits)**

These illustrated lecture courses deal with a limited topic in the field of art history. The course may be coordinated with an external event such as an exhibition, publication or study trip. Lab fee required. (Cross-listed with ART 8936)

**Prerequisite(s):** ART 2050 or ART 2060 or instructor permission.

**ART 4940 ART HISTORY METHODS (3 credits)**

This is a seminar course surveying major developments in aesthetics and selected problems in the discipline of Art History. Required for art history majors. Lab fee required.

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060. Completion of ART 3760 is recommended.

**ART 4950 ART CRITICISM (3 credits)**

A study of art criticism from antiquity to the present. Students will both engage art critical writing as a creative and analytical tool.m.

**Prerequisite(s):** Completion of ART 2050 & ART 2060.

**ART 4990 ART HISTORY CAPSTONE (1 credit)**

Art History majors will have the choice of either: 1) writing a thesis (20-25 pages) and giving a 20 min. public presentation, 2) taking a comprehensive exam with questions based on their coursework, or 3) completing an internship project and giving a 20 min. public presentation.

**Prerequisite(s):** Senior standing in Art History and completion of or concurrent enrollment in ART 3760 (Art History Seminar) or ART 4940 (Art History Methods) plus the approval of the Art History faculty.

## Aviation (AVN)

### Aviation Undergraduate Courses

**AVN 1000 INTRODUCTION TO AVIATION AND AEROSPACE (3 credits)**

This course provides a broad understanding of all aspects of the air transportation and aerospace industries. Lectures will cover what has happened in the industry to date, with emphasis on present and future developments in air transportation. The course will include the impact the airline industry is making on airports and other segments of aviation and aerospace.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**AVN 1020 PRIVATE PILOT THEORY (3 credits)**

This course will familiarize the student with theories associated with flight. These include aerodynamics, weather, Federal Aviation Administration (FAA) regulations, navigation, airports, airspace, and aviation safety. There is no flight requirement associated with this course.

**AVN 1024 PRIVATE PILOT FLIGHT LABORATORY (1 credit)**

This laboratory course is designed for students pursuing flight requirements for the Federal Aviation Administration private pilot certificate. The student will complete all flight requirements for solo flight. Course will include flight in aircraft simulators and single-engine aircraft. Class is conducted off campus. Special fees apply.

**Prerequisite(s):** Completion of or concurrent enrollment in AVN 1020, or successful completion of the Federal Aviation Administration Private Knowledge Test.

**AVN 1030 PRIVATE PILOT FLIGHT CERTIFICATE (2 credits)**

This course will prepare the student for the Federal Aviation Administration practical flight examination for the private pilot certificate. Course involves flight in personal computer assisted training device and single-engine aircraft. Student is required to successfully complete all FAA certification requirements and obtain a private pilot certificate. Classes will be conducted off campus. Special fees apply.

**Prerequisite(s):** AVN 1020 and AVN 1024.

**AVN 1040 HISTORY OF AVIATION AND AEROSPACE (3 credits)**

The course introduces students to the history of aviation and aerospace with emphasis on the evolution of technologies, policies, business models, and transportation.

**Distribution:** Social Science General Education course

**AVN 1160 AVIATION SAFETY (3 credits)**

This course provides the student with a detailed introduction to aspects of aviation safety as well as the associated components of flight human factors, aircraft technology, weather related accidents and accident investigation.

**Prerequisite(s):** AVN 1000

**AVN 1500 INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS (3 credits)**

This course is an introductory overview of Unmanned Aircraft Systems including the regulatory process, history, application and career opportunities, ethical concerns, and safety management of UAS operations.

**Prerequisite(s):** Not open to non-degree graduate students.

**AVN 2020 AIRLINE OPERATIONS (3 credits)**

The purpose of this course is to introduce the student to operational aspects of airline management. Topics to be covered include management, leadership, labor relations, marketing, forecasting, and fleet planning.

**Prerequisite(s):** AVN 1000

**AVN 2050 INTRODUCTION TO AIRPORT ADMINISTRATION (3 credits)**

This course examines airport operations, safety and security, various administrative roles within the airport community, and the impact airports can have on local and regional economies. Students will explore the unique role public airports play as an interface between the traveling public and private airlines.

**Prerequisite(s):** AVN 1000

**AVN 2100 FLIGHT TEAM (1 credit)**

Students will learn and master the skills associated with the 9 different events associated with the National Intercollegiate Flying Association Regional and National Safety and Flight Evaluation Conferences or SAFECONs. The events include: Computer Accuracy, Simulated Comprehensive Aircraft Navigation (SCAN), Aircraft Recognition, Preflight Inspection, Ground Trainer, Message Drop, Navigation, Short-Field Landing, and Power-Off Landing.

**Prerequisite(s):** Permission of the Flight Team Advisor is required

**AVN 2104 INSTRUMENT RATING 1 (2 credits)**

The student will complete approximately 25 hours of training in a single-engine aircraft at a UNO-approved Fixed Base Operator and FAA-approved Advanced Aviation Training Devices on the UNO Main Campus; objective is to complete the first portion of training needed for the FAA Instrument Rating. Special fees, FAA medical examination and TSA clearance required. (AC 61-139 Area 1)

**Prerequisite(s):** Concurrent enrollment in AVN 2170 or instructor permission. Not open to non-degree graduate students.

**AVN 2114 INSTRUMENT RATING 2 (1 credit)**

The student will complete approximately 20 hours of training in a single-engine aircraft at a UNO-approved Fixed Base Operator; objective is to complete the final portion of training needed for the FAA Instrument Rating. Special fees, FAA medical examination and TSA clearance required. (AC 61-139 Area 1)

**Prerequisite(s):** AVN 2170 and AVN 2104 or instructor permission. Not open to non-degree graduate students.

**AVN 2124 COMMERCIAL PILOT CERTIFICATE 1 (2 credits)**

The student will complete approximately 40 hours of training in a single-engine aircraft at a UNO-approved Fixed Base Operator and FAA-approved Advanced Aviation Training Devices on the UNO Main Campus; objective is to complete the first of three sections of training needed for the FAA Commercial Pilot Certificate. Special fees, FAA medical examination and TSA clearance required. (AC 61-139 Area 1)

**Prerequisite(s):** Concurrent enrollment in AVN 2180 or instructor permission. Not open to non-degree graduate students.

**AVN 2134 COMMERCIAL PILOT CERTIFICATE 2 (2 credits)**

The student will complete approximately 40 hours of training in a single-engine aircraft at a UNO-approved Fixed Base Operator; objective is to complete the second of three sections of training needed for the FAA Commercial Pilot Certificate. Special fees, FAA medical examination and TSA clearance required. (AC 61-139 Area 1)

**Prerequisite(s):** AVN 2124 or instructor permission. Not open to non-degree graduate students.

**AVN 2144 COMMERCIAL PILOT CERTIFICATE 3 (2 credits)**

The student will complete approximately 40 hours of training in a single-engine aircraft at a UNO-approved Fixed Base Operator; objective is to complete the final third of training needed for the FAA Commercial Pilot Certificate. Special fees, FAA medical examination and TSA clearance required. (AC 61-139 Area 1)

**Prerequisite(s):** AVN 2134 or instructor permission. Not open to non-degree graduate students.

**AVN 2164 PROFESSIONAL PILOT DEVELOPMENT (2 credits)**

This course is intended to supplement the Instrument Rating and Commercial Certificate courses by providing flight experience and simulator training in the areas of instrument flying, complex airplane/multiengine operations, abnormal and emergency situations, and crew resource management.

**Prerequisite(s):** AVN 1030 or hold a valid US Private Pilot Certificate.

**AVN 2170 INSTRUMENT FLIGHT THEORY (3 credits)**

This course will provide the student with an understanding of theory and procedures required to be a safe and competent instrument pilot. It will include the study of flight instruments, aerodynamics, instrument flight maneuvers, navigation, flight planning, the national airspace system, air traffic control, weather, regulations, human factors and emergency operations. There is no formal flight training involved with this course.

**Prerequisite(s):** AVN 1030 or hold a valid U.S. Private Pilot Certificate; or instructor permission.

**AVN 2180 COMMERCIAL PILOT THEORY (3 credits)**

This course provides the student with an understanding of the theories involved in flight at the commercial level. Course will include extensive review and study of VFR and IFR cross-country procedures and night flight procedures to prepare the student for the FAA commercial Pilot Knowledge Test. There is no flight training involved in this course.

**Prerequisite(s):** AVN 2114 or possess a U.S. FAA issued Instrument Pilot Certificate; or instructor permission.

**AVN 2500 UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS (3 credits)**

This course will give students hands-on flight training experience with small unmanned aircraft including mission planning, operational control, and working with different types of payloads.

**Prerequisite(s):** AVN 1500 and FAA Remote Pilot Certificate. Not open to non-degree graduate students.

**AVN 2510 DIVERSITY IN AVIATION (3 credits)**

This course provides an overview of the contributions women and minorities have made to the field of aviation. Emphasis is placed on past, present and future roles of women and minorities in aviation. The course includes other topics such as international aspects and issues of aviation.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**AVN 2750 AVIATION METEOROLOGY (3 credits)**

An introductory study of the key elements of the atmosphere's structure from the earth's surface to the upper levels; weather systems and hazards to aviation operations plus impact of adverse weather on aeronautical operations. Course will include review of air mass characteristics, frontal weather, and pressure system structure.

**Prerequisite(s):** AVN 1020, and MATH 1310 or MATH 1220 or equivalent.

**AVN 2900 INDEPENDENT STUDY IN GENERAL AVIATION (3 credits)**

This course will cover various topics in aviation to be determined with the instructor and student. Possible topics include Ground Instructor Ratings, crew resource management, airline airport analysis, military history, effects of privatization, etc.

**AVN 3000 BUSINESS AND CORPORATE AVIATION (3 credits)**

This course will provide a broad understanding of aspects related to the field of business and corporate aviation. Information that will be covered includes: the history of business and corporate aviation; regulations and associations; the value of using business aircraft; aircraft selection; the differences between corporate flight department, fractional ownership, and charter departments; insurance requirements; and safety and security issues.

**Prerequisite(s):** AVN 1000 and Junior or Senior standing

**AVN 3040 HUMAN FACTORS IN AVIATION SAFETY (3 credits)**

The purpose of this course is to provide students with an understanding of human factors as it applies to pilots and administrators. Topics will include pilot physiological and psychological issues, work station design, crew resource management, and related public sector issues for managers.

**Prerequisite(s):** AVN 1160

**AVN 3050 UNMANNED AIRCRAFT SYSTEM DESIGN, DEVELOPMENT, AND MAINTENANCE (3 credits)**

This course offers students theoretical knowledge and hands-on experience with small unmanned aircraft system design, development, and maintenance. Students will learn principles of UAS design, development, and maintenance, and will apply interdisciplinary knowledge to build small UAS.

**Prerequisite(s):** AVN 2500. Not open to non-degree graduate students.

**AVN 3060 WRITING IN AVIATION (3 credits)**

This course will further develop the communication skills of aviation students through various forms of writing. Students will compose a research paper and other writing assignments.

**Prerequisite(s):** ENGL 1160 and AVN 1000

**AVN 3070 AIR TRAFFIC CONTROL (3 credits)**

The purpose of this course is to introduce students to the Federal Aviation Administration (FAA) Air Traffic Control system. Elements and requirements of the course will include: basic air traffic control procedures for pilots, navigation aids, control tower operations, radar approach and departure regulations, and airport traffic control (ATC).

**AVN 3090 AIRPORT ADMINISTRATION AND PLANNING (3 credits)**

This course covers the nation's airspace design, navigation and air traffic systems and their effect on airport capacity. Additionally, the national airport system will be investigated as well as airport design and development parameters, fiscal processes, and management considerations.

**Prerequisite(s):** AVN 2050

**AVN 3150 AVIATION LAW (3 credits)**

This course will increase the student's knowledge of aviation law. Particular attention will focus on the manner in which legal forces affect the aviation system.

**Prerequisite(s):** AVN 1000 and junior standing.

**AVN 3190 CERTIFIED FLIGHT INSTRUCTOR THEORY (3 credits)**

Provide the student with an understanding of the theories involved in flight instruction. Course will include extensive oral presentation of complex aeronautical information and use of the personal computer assisted training device. Students are expected to pass FAA Fundamentals of Instructing and Federal Aviation Administration (FAA) Flight Ground Instructor Knowledge tests. There is no flight training in this course.

**Prerequisite(s):** AVN 2144 and CMST 1110.

**AVN 3194 CERTIFIED FLIGHT INSTRUCTOR I (2 credits)**

This course consists of approximately 25 hours of flight training in flight instruction procedures required to obtain the FAA flight instructor certificate. Special Fees apply.

**Prerequisite(s):** AVN 2144 and AVN 3190 (may enroll concurrently).

**AVN 3200 COOPERATIVE EDUCATION IN AVIATION (1-6 credits)**

This course will complement course work with a relevant professional work experience or practicum in aviation. The practicum/field experience may be a special project in an aviation organization to be coordinated by the instructor. Offered as a credit/no-credit course.

**Prerequisite(s):** AVN 3060, junior/senior standing, aviation major, instructor permission by written proposal (contract), and approval of proposed work/field experience by instructor.

**AVN 3304 CERTIFIED FLIGHT INSTRUCTOR II (2 credits)**

Using a combination of lab session training at UNO and ground / flight instruction at the student's selected Flight Training Provider (FTP), the Flight Instructor Candidate will complete the FAA Flight Instructor-Instrument Certificate.

**Prerequisite(s):** AVN 3194 and AVN 3190 or instructor permission

**AVN 3400 MULTI-ENGINE CERTIFICATION (2 credits)**

Using a combination of lab session training, Advanced Aviation Training devices at UNO and ground/flight instruction at the student's selected Flight Training Provider (FTP), the student will complete the FAA Multi-Engine Rating at the Commercial level.

**Prerequisite(s):** AVN 2180 and AVN 2144 and Federal Aviation Administration Commercial Single Engine Land

**AVN 3500 RESEARCH METHODS IN AVIATION (3 credits)**

An introductory research methods course focused on contemporary as well as historical aviation problems and topics, but from an investigative perspective. The primary focus will be the preparation of standard research documents and the use of traditional statistical methods to evaluate various data sources.

**Prerequisite(s):** 60 hours of undergraduate credit and AVN 3060 completed or in progress.

**AVN 3510 AEROSPACE SCIENCES (3 credits)**

This introductory course will provide pre-service teacher candidates, aviation students, and students at large the opportunity for a science oriented general education course. The curriculum will be focused in the areas of earth and space science, geospatial technology, and aeronautics. Key topics for this course will include the geoscience practice of Geographic Information Systems, Global Positioning System, and the NASA Jet Propulsion Laboratory/ UNO designed Data-Slate remote sensing program. Also included will be space sciences focused solar system exploration, satellite technology, and astronautics. Students will engage in aeronautic science topics inclusive of the study of aerodynamics of flight, meteorological science and weather, and flight technology. All students will be provided opportunity to apply concepts of flight in the Aviation Institute's Advanced Simulation Facility.

**AVN 3600 INTERNATIONAL AVIATION (3 credits)**

This course examines global air transport and its impact on the development of the global economy. Lectures and readings will provide a solid foundation of historical knowledge about international air transport and its development in various countries, before exploring current policy debates about liberalization, global alliances, and other critical issues.

**Prerequisite(s):** AVN 2020

**AVN 3700 TRANSPORTATION ANALYSIS (3 credits)**

This course is an extension of introductory financial courses; special emphasis on service characteristics of air carriers. Review of airline revenue and expense streams, pricing and fares, fiscal market segmentation, and fleet planning. Focused approach to understanding the monetary forces that underlie the business practices of domestic and international passenger and cargo airlines.

**Prerequisite(s):** ECON1200 or higher and junior standing

**AVN 4000 INDEPENDENT RESEARCH IN AVIATION (1-3 credits)**

The purpose of this course is to provide the aviation student an opportunity to complete an in-depth analysis of a specific aviation topic. Examples: aerodynamics, airports rates/charges analysis, cost-allocation for airside/ landside, aviation marketing relating to aircraft manufacturing, airline promotion, flight component, off-airport subjects, comprehensive regional planning, environmental subject, etc.

**Prerequisite(s):** Aviation major, senior standing, and written permission of the instructor.

**AVN 4010 AERODYNAMICS AND AIRCRAFT PERFORMANCE (3 credits)**

Provides the student with an understanding of the factors affecting aircraft performance during various phases of flight. Topics will include aircraft performance requirements outlined in the Federal Aviation Administration Regulations, use of performance charts and tables, runway airport analysis, and climb cruise descent performance.

**Prerequisite(s):** AVN 1000, AVN 2144, MATH 1220 or instructor permission.

**AVN 4020 AIRCRAFT SYSTEMS (3 credits)**

Provides the student with an understanding of systems employed on technologically advanced, sophisticated aircraft. Systems covered will include electrical, hydraulic, engines, flight control and pneumatic systems.

**Prerequisite(s):** AVN 1000 and AVN 2144 or instructor permission.

**AVN 4050 GENERAL AVIATION OPERATIONS (3 credits)**

Organization and operation of general aviation facilities to include administration, aircraft maintenance considerations, flight line operations, and decision making.

**Prerequisite(s):** AVN 1000

**AVN 4060 ADVANCED AIR TRANSPORT FLIGHT OPERATIONS (3 credits)**

The course will be a capstone event in the professional pilot sequence. Specific emphasis will be on the pre-flight planning and execution of air carrier flight operations. Additional instructional segments will cover regional and corporate flight operations.

**Prerequisite(s):** AVN 4020 or instructor permission.

**AVN 4080 AIRPORT SAFETY AND SECURITY (3 credits)**

This course will explore the role of airports in relation to safety and security. Topics will include regulations, responsibilities, security issues, ramp safety, disaster preparedness, and emergency management.

**Prerequisite(s):** AVN 1000 or its equivalent or permission of the instructor.

**AVN 4200 INTERNSHIP IN AVIATION (1-6 credits)**

This course is designed to provide direct hands-on experience in the aviation industry for selected students. Students will be selected for internships competitively by a panel of Aviation Institute faculty and industry representatives from companies providing the internships. This experience will be in a full-time, preferably paid position in a highly structured environment using a syllabus designated by the faculty and industry committee.

**Prerequisite(s):** AVN 3060, junior/senior standing, aviation major, instructor permission.

**AVN 4500 ADVANCED UNMANNED AIRCRAFT SYSTEMS PROCEDURES (3 credits)**

This course will provide students with scenario based training sessions that focus on emergency procedures for inflight operations, risk assessment and mitigation tactics, and advanced communications procedures.

**Prerequisite(s):** AVN 2500. Not open to non-degree graduate students.

**AVN 4900 SPECIAL TOPICS IN AVIATION (1-3 credits)**

This course will discuss various topics in the Aviation Industry determined each time the course is offered. Possible topics include International Aviation, Current Issues, and Cockpit Resource Management along with other topics.

**Prerequisite(s):** AVN 1000 and junior standing

**AVN 4990 AIR TRANSPORTATION (3 credits)**

This course fulfills the Aviation Institute capstone projects for undergraduates. Lectures and readings will cover contemporary issues and problems in air transportation, as well as material related to research design and implementation.

**Prerequisite(s):** AVN 3700, junior or senior standing, or instructor permission.

## Artificial Intelligence and Machine Learning (AIML)

### Artificial Intelligence and Machine Learning Undergraduate Courses

**AIML 1870 NEXT-GEN SOFTWARE DEVELOPMENT: INTELLIGENT COLLABORATION WITH LARGE LANGUAGE MODELS (3 credits)**

Large Language Models (LLMs) are revolutionizing how software is developed by shifting the focus from mastering syntactic details of programming languages to crafting high-level specifications and robust validation/testing strategies. While this new paradigm simplifies certain aspects of development, a foundational understanding of programming languages and systems remains essential. This course embraces an LLM-centric approach to software development. This involves prompt engineering, interpreting AI-generated code, and iteratively debugging and refining software solutions.

**Prerequisite(s):** College Algebra or equivalent, EDL 2590. Not open to non-degree graduate students.

**AIML 2060 CONCEPTS OF ARTIFICIAL INTELLIGENCE (3 credits)**

The course will introduce students to the foundational concepts and elements of techniques in Artificial Intelligence (AI), including representation, heuristic search, automated problem-solving, decision-making, and machine learning. Students will study the history of AI and the lessons learned from it, as well as a range of real-world applications in which AI is currently used. Assignments will enable students to get a feel for AI techniques. This course will be the first contact with AI concepts in the AIML program and it will provide a broad overview of the areas of AI. It will be open for CS students as an elective.

**Prerequisite(s):** CSCI 1620 (with a grade of C or better) and MATH 1950 (with a grade of C or better); Co-requisite: CSCI 2030

**AIML 4970 ARTIFICIAL INTELLIGENCE CAPSTONE PROJECT (3 credits)**

The Capstone Project completes the undergraduate experience of an Artificial Intelligence major. Students will develop a real-world AI-based system or conduct supervised research in an area of AI, applying fundamental artificial intelligence concepts, practices and principles as required by the problem.

**Prerequisite(s):** Not open to non-degree graduate students.

## Bioinformatics (BIOI)

### Bioinformatics Undergraduate Courses

**BIOI 1000 DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (3 credits)**

This course is an introduction to how computing and technology can be applied to human health and biological systems in an interdisciplinary setting. Students will learn to discern between computing specializations such as bioinformatics and health informatics. The course will explore the application of computing to health, life sciences, and agriculture in both current and historical contexts, and how these applications impact society. Topics covered include bioinformatics, health informatics, user experience and design, data security and privacy, and more. (Cross-listed with ACMP 1300).

**Distribution:** Natural/Physical Science General Education course

**BIOI 3000 APPLIED BIOINFORMATICS (3 credits)**

This course will provide students with the practical skills needed for the analysis of -omics data. Topics covered will include biological databases, molecular biology tools (e.g., primer design, contig assembly), gene prediction and mining, database searches, genome comparison, sequence alignments, phylogenetic inference, gene expression data analyses, functional annotation of protein sequences, protein structure and modeling. Specialized software (e.g., Vector NTI) and widely used web-based computation tools (e.g., Entrez, BLAST, ClustalX, Phylip, PyMOL, and SwissPDBviewer) will be illustrated. Multiple approaches for solving particular problems will be presented. (Cross-listed with ACMP 3400).

**Prerequisite(s):** BIOI 1000 and either CIST 1400 or CIST 1600

**BIOI 4500 INDEPENDENT STUDY (1-3 credits)**

This course allows students to research a topic of their interest that is not available in a formal course. The topic to be studied must be agreed upon by the student and the instructor.

**Prerequisite(s):** Junior or Senior within the Bioinformatics undergraduate program. Not open to non-degree graduate students.

**BIOI 4510 BIOINFORMATICS INTERNSHIP (1-3 credits)**

The purpose of this course is to provide the students with an opportunity for practical application and further development of knowledge and skills acquired in the Bioinformatics undergraduate program. The internship gives students professional work experience and exposure to the challenges and opportunities faced by IT professionals in the workplace.

**Prerequisite(s):** Junior/Senior standing and permission of Director of the School of Interdisciplinary Informatics. Not open to non-degree graduate students.

**BIOI 4860 BIOINFORMATICS ALGORITHMS (3 credits)**

The main objective of this course is to provide an organized forum for students to understand the foundations of algorithmic design and analysis in the context of health and biological data. The course will present fundamental concepts in algorithms (exhaustive, greedy, graph, heuristic, and more) and explore how those concepts extend to bioinformatics and related fields, such as biomedical informatics, and health informatics. Students will learn about historical context of these algorithms and how they were pivotal in forming more complex modern approaches, and will explore advanced algorithms in their area of interest. Students will also exercise their programming skills with the opportunity to implement and apply bioinformatics algorithms to real data, so to better grasp the technical components of algorithmic design and analysis. (Cross-listed with BMI 8866, ACMP 4860).

**Prerequisite(s):** ACMP 3200 or CSCI 3320



**BIOI 4870 DATABASE SEARCH AND PATTERN DISCOVERY IN BIOINFORMATICS (3 credits)**

This required course for undergraduate bioinformatics majors provides foundational knowledge on database aspects used in the field and an overview of their applications in bioinformatics, biomedical informatics, and health/clinical informatics. The course begins with a brief review of key concepts in computational molecular biology related to database search/development, database management systems, the difference between primary and secondary databases, and bioinformatics-related aspects of modeling and theory in computer science. The major focus is on the multiple challenges and aspects of bio-database development, search, and pattern discovery. The course uses problem-based learning to help students develop database management skills as they apply to high throughput "-omics." data, the basics of data management, data provenance and governance, standards, and analysis through KDD-based workflows. This course will also consider the fundamentals of artificial intelligence and machine learning as they pertain to bioinformatics, from the perspective of database storage, I/O, and analysis. (Cross-listed with CSCI 8876).

**Prerequisite(s):** CSCI 4850 or permission of instructor. Not open to non-degree graduate students.

**BIOI 4890 COMPUTERIZED GENETIC SEQUENCE ANALYSIS (3 credits)**

The goal of this course is to introduce students to major topics in computerized analysis of genetic sequences. In particular the course will allow students to become familiar with the computational tools and software that aid in the modern molecular biology experiments and analysis of experimental results. Following the completion of this course, it is expected that the students will have a basic understanding of the theoretical foundations of the sequence analysis tools and develop competence in evaluating the output from these tools in a biological context. This course will emphasize hands-on experience with the programs for nucleotide and amino acid sequence analysis and molecular phylogeny. (Cross-listed with BMI 8896).

**Prerequisite(s):** Junior or senior-level standing in the Bioinformatics program or permission from the instructor.

**BIOI 4950 SPECIAL TOPICS IN BIOINFORMATICS (3 credits)**

This course is intended to provide a mechanism for offering instruction in subject areas that are not covered in other regularly scheduled courses. In general, courses offered under the BIOI 4950 designation will focus on evolving subject areas in bioinformatics.

**Prerequisite(s):** Prerequisites of a specific offering of BIOI 4950 will be determined by the supervising faculty member and identified in the course proposal. It is anticipated that permission of the faculty member teaching the course will be required for registration.

## Biology (BIOL)

### Biology Undergraduate Courses

**BIOL 1020 PRINCIPLES OF BIOLOGY (4 credits)**

Principles of Biology introduces fundamental concepts at all levels of organization in biology. The laboratory emphasizes inquiry-based and problem-oriented approaches to these concepts. Must enroll in one laboratory. Usually offered Fall, Spring, Summer.

**Prerequisite(s):** ENGL1150 placement by the English Placement and Proficiency Exam (EPPE), grade of C- or better in English 1050 or 1100, ACT English subscore of 20 or higher, or permission of the department.

**Distribution:** Natural/Physical Sci General Education lecture&lab

**BIOL 1060 INTRODUCTION TO MEDICAL CAREERS & ETHICS (2 credits)**

A general overview of modern healthcare professions, plus foundational career concepts which include vocational discernment, undergraduate preparation, healthcare ethics, HIPAA certification, challenges and opportunities in healthcare, and evidence-based medicine. An exploration of various careers in healthcare is included. Intended as a preparatory healthcare professional course. Usually offered during the Fall, Spring, and Summer semesters.

**BIOL 1160 TERMINOLOGY OF HUMAN HEALTH & DISEASE (2 credits)**

This completely online course is designed to help students learn clinical terminology in relation to human health and disease. The course will cover root words, terms, and phrases relating to human anatomy, disease conditions, and clinical procedures. The course will also serve as a survey of human diseases across all major organ systems, and common procedural diagnostics and treatments.

**BIOL 1330 ENVIRONMENTAL BIOLOGY (3 credits)**

This course is a study of human ecology with emphasis on the effects of human populations on the earth's resources and on the environment. Usually offered Fall, Spring, Summer.

**Distribution:** Natural/Physical Science General Education course

**BIOL 1450 BIOLOGY I (5 credits)**

First semester of a two semester series on the general principles of biology. Concepts including the chemical and physical basis of living systems, cell structure and function, energy and metabolism, genetics and molecular genetics, and evolution of biological diversity will be presented. Laboratory will provide inquiries into these same topics. Intended as the first course for Biology majors. Must enroll in one lab section. Usually offered Fall, Spring and Summer.

**Prerequisite(s):** High school biology and chemistry. College level chemistry recommended.

**Distribution:** Natural/Physical Sci General Education lecture&lab

**BIOL 1750 BIOLOGY II (5 credits)**

Second semester of a two semester series on the general principles of biology. Introduction to the study of life, concentrating on whole organisms and their interactions with the environment. This course will focus on evolution and natural selection, biodiversity, physiologic responses to the environment, organ systems, population dynamics, community ecology, and energy and material flow through ecosystems. Laboratory will provide inquiries into these same topics. Intended as the second course for Biology majors. Must enroll in one lab section. Usually offered Fall, Spring and Summer.

**Prerequisite(s):** Prerequisite is BIOL 1450. College level chemistry is recommended.

**BIOL 2020 STATISTICS FOR LIFE AND ENVIRONMENTAL SCIENCE (3 credits)**

The course will train life and environmental science students in 1) searching and accessing public data repositories to address questions in the area of life and environmental science, 2) carrying out quality control of data files and preparing data files for statistical analysis, 3) summarizing data with tables and graphs for reports using the principles of descriptive statistics, and 4) applying basic principles of inferential statistics to test simple life and environmental science models. The students will also practice 1) using spreadsheet software (e.g., Excel) for basic data organization, clean-up, and manipulation and 2) carrying out basic descriptive and inferential statistics with R (the standard statistical software used in life and environmental science). In addition to using the frequentist approach (null hypothesis testing) for inferential statistics, the course will also emphasize effect sizes, because statistically significant, yet small effects, are generally of minor importance in biological and environmental systems. (Cross-listed with ENVN 2020).

**Prerequisite(s):** MATH 1120 or MATH 1130 or MATH 1220 or MATH 1300 or MATH 1320 or Permission of Instructor.



**BIOL 2030 INTRODUCTORY TOPICS IN BIOLOGY (3 credits)**

This course is a lecture and/or laboratory course for Biology and non-Biology majors pertaining to a specific biological topic not available in the regular curriculum. Topics will be developed by individual faculty members reflecting their special interests and expertise. The course may be repeated for credit if the topic differs.

**Prerequisite(s):** Instructor permission.

**BIOL 2060 ART AND SCIENCE OF MEDICAL DECISION-MAKING (3 credits)**

The course explores multiple facets of medical decision-making, including the perspective of the patient, the family, and the healthcare provider. Topics include basic anatomy and medical terminology, which will be used to understand decision-making in the context of the provider. Students use literature and other records to generate and critically evaluate clinical decisions. The course does not satisfy requirements for degree programs in the Department of Biology minor, BA, BS in Biology; BS in Biotechnology. (Cross-listed with MEDH 2060).

**Prerequisite(s):** BIOL 1060 or concurrent.

**BIOL 2140 GENETICS (4 credits)**

This course provides students with a foundational understanding of genetics. First, students will learn to analyze patterns of Mendelian inheritance. Then, they will develop molecular explanations for these patterns and understandings of how genes are defined and identified. They will also learn how variations in inheritance patterns arise, using analytical and statistical tools to distinguish between variations on inheritance patterns and to analyze quantitative traits. Then, students will focus on the nucleus to examine the structure, organization, packaging, and inheritance of chromosomes. They will consider the consequences of genetic recombination on inheritance patterns and for genetic mapping. **Prerequisite(s):** Prerequisites are BIOL 1450 and 1750, CHEM 1140 or 1180 or the equivalent or permission of the instructor. Must enroll in discussion.

**BIOL 2440 THE BIOLOGY OF MICROORGANISMS (4 credits)**

An introduction to the structure and properties of different types of microorganisms, the importance of microorganisms to our society and our environment, the methods used to control microorganisms, the diseases caused by microorganisms and the defenses of the human body against microorganisms including immune cells. Must enroll in one lab section. Usually offered in Fall, Spring, Summer.

**Prerequisite(s):** High school biology and chemistry.

**BIOL 2740 HUMAN ANATOMY AND PHYSIOLOGY I (4 credits)**

This course is designed for students interested in human healthcare professions and anyone interested in learning about the structures and functioning of the human body. Material covered will include introductory terminology as well as the anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems and the special senses. Usually offered Fall, Summer.

**Prerequisite(s):** High school or college biology or zoology and high school or college chemistry. Must enroll in one lab section.

**BIOL 2840 HUMAN ANATOMY AND PHYSIOLOGY II (4 credits)**

This course is designed for students interested in human healthcare professions and anyone interested in learning about the structures and functioning of the human body. Material covered will include the anatomy and physiology of the endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems. Usually offered Spring, Summer.

**Prerequisite(s):** BIOL 2740 or permission of instructor. Must enroll in one lab section.

**BIOL 3020 MOLECULAR BIOLOGY OF THE CELL (3 credits)**

A study of molecular and cellular biology. Topics to be covered include gene expression and regulation, structure and function of biological macromolecules, metabolism, membrane function and transport, and cell differentiation. Usually offered Fall, Spring, Summer.

**Prerequisite(s):** BIOL 2140 and at least one semester of general chemistry.

**BIOL 3030 MICROBIAL ECOLOGY (4 credits)**

Through an integrated lecture and laboratory course, this course will introduce students to the diversity and ecology of microbes in various environments (soils, water, plants, insects, etc.). Emphasis will be placed on molecular approaches to analyzing microbial diversity and evolution, as well as teacher-directed but student-led investigations. Students will participate in a continuum of course-based research experiences in molecular microbial ecology, from fieldwork to laboratory techniques and evolutionary analysis of DNA sequence data. The course explores ecological principles as they apply to microorganisms while emphasizing the molecular, biochemical, and evolutionary diversity in the microbial world. (Cross-listed with BIOL 8045, ENVN 3030).

**Prerequisite(s):** Students interested in class must have passing grades in BIOL 1450 and BIOL 1750. OR with instructor's permission.

**BIOL 3100 PALEONTOLOGY (3 credits)**

An introduction to the history of life through the study of the fossil assemblages, communities, diversity, evolution, extinction, and how fossils are created. We then explore the history of invertebrates, vertebrates, microfossils, and mass extinctions. (Cross-listed with GEOL 3100.)

**Prerequisite(s):** GEOL 1180 or with instructor permission

**BIOL 3104 INVERTEBRATE PALEONTOLOGY LABORATORY (1 credit)**

An examination of representative specimens of groups of organisms important in the fossil record and an introduction to analytical techniques in paleontology. Must be taken concurrently with GEOL 3100. (Cross-listed with GEOL 3104).

**Prerequisite(s):** GEOL 1180 or permission; Concurrent enrollment in GEOL 3100

**BIOL 3150 WRITING AND COMMUNICATION IN THE BIOLOGICAL SCIENCES (3 credits)**

This is a course in writing for students majoring in the biological sciences. It is designed primarily to prepare students to report results of original research in a scientific, scholarly format. Topics will include scientific literature, the organization and presentation of data in biological reports, as well as the preparation of posters and oral presentations for scientific meetings. Usually offered Fall, Spring.

**Prerequisite(s):** Biology major, junior or senior standing, ENGL 1150 and ENGL 1160 or equivalent.

**Distribution:** Writing in the Discipline Single Course

**BIOL 3240 INTRODUCTION TO IMMUNOLOGY (3 credits)**

An introduction to the fundamentals of immunology including the immune system, the immune response, humoral and cellular immunity, and antibodies. In addition, immunoassay, immunopathology, cancer immunology, and histocompatibility will be considered. Usually offered Fall and Spring.

**Prerequisite(s):** Prerequisites are BIOL 1450, 1750 and 2140 and junior-senior standing. Recommended: BIOL 3020. Not open to non-degree graduate students.

**BIOL 3340 ECOLOGY (4 credits)**

Study of interrelationships between organisms and their biotic and abiotic environment; includes the physical environment, population biology, community dynamics, biotic interactions and evolution. Usually offered Fall, Spring, Summer. (Cross-listed with BIOL 8345).

**Prerequisite(s):** Prerequisites are BIOL 1450 and BIOL 1750, junior-senior. Must enroll in one lab section. Not open to non-degree graduate students.

**BIOL 3500 BIOLOGICAL PRINCIPLES OF AGING (3 credits)**

The Biological Bases of Aging Course provides a survey of the primary topics in the biology of aging field for undergraduate students. This a required course for the Gerontology major. By the end of the course, students will understand major theories, biological methods, and seminal research studies in the biology of aging field. Furthermore, students will learn how to critically analyze and interpret primary research about biological aging. This course provides preparation for students considering graduate school in gerontology or biology, geriatric nursing and social work, geriatric medicine, neuroscience, psychology, and exercise science. (Cross-listed with GERO 3500, NEUR 3500)

**Prerequisite(s):** Sophomore/Junior/Senior Standing. Not open to non-degree graduate students.

**BIOL 3530 FLORA OF THE GREAT PLAINS (4 credits)**

A study of common vascular plants found in the Great Plains region, including identification, description, and classification techniques and an introduction to the plant communities of Nebraska. Usually offered every Fall and Summer. (Cross-listed with BIOL 8535.)

**Prerequisite(s):** BIOL 1450, 1750 and junior-senior. Must enroll in lab.

**Distribution:** OBIOWRT3 - Tier III Biology Writing Course

**BIOL 3680 BIOLOGY OF AFRICA (3 credits)**

Biology of Africa (3) Introduction to the plants, animals, and habitats of Africa. Although other groups are included, this course will focus on the large mammals of east Africa and will pay particular attention to elephant reproduction and biology. Other topics include Serengeti migrations, hippos, lions and other large cats, reptiles, and human evolution. Usually offered alternate Spring semesters. (Cross-listed with BIOL 8685).

**Prerequisite(s):** BIOL 1750 or permission of the instructor

**BIOL 3690 BIOLOGY OF AFRICA LAB (1 credit)**

BIOL 3690/8695 Biology of Africa (1) A Hands-on introduction to the major plants and animals of east Africa using a field trip to South Africa. Students will observe, first hand, examples of the flora and fauna of the African savannah, partake in research on elephant reproductive biology, and observe historic African tribal culture.. Students will be required to take a trip to South Africa including Johannesburg, Hoedspruit, Kruger National Park, and Skukuza. Students will be required to register their travel plans through Education Abroad. Usually offered alternate Summer semesters. Students enrolled in this course must have taken BIOL 3680/8685 during the spring semester immediately prior to this class, or have taken it some semester prior. (Cross-listed with BIOL 8695).

**Prerequisite(s):** Previous or concurrent enrollment in BIOL 3680/BIOL 8685 lecture.

**BIOL 3730 FAUNA OF THE GREAT PLAINS (3 credits)**

A survey of the common animal groups in the Great Plains Region and field techniques used to study these groups, with an emphasis on ecosystems and representative animals of Nebraska. Must enroll in lab. Usually offered in fall semesters.

**Prerequisite(s):** BIOL 1450 and BIOL 1750 and junior/senior

**BIOL 3800 ANATOMY ACADEMIC ASSISTANTSHIP PRACTICUM (1 credit)**

Assistantships for students participating in the Anatomy Academic Assistantship (AAA) program provide advanced Human Physiology and Anatomy students with the opportunity to apply their knowledge while gaining leadership and communication skills via the mentorship of current Human Physiology and Anatomy I and II students. Additionally, STEM service learning activities will be offered. This course is not intended to replace other biology courses required for degrees offered by the Department of Biology.

**Prerequisite(s):** Students must have a cumulative GPA of 3.0 or above, a grade of B in BIOL 2740, and be accepted to the Anatomy Academic Assistantship (AAA) Practicum. Students must receive permission of instructor. Not open to non-degree graduate students.

**BIOL 3830 BIOLOGY OF PATHOGENIC MICROORGANISMS (3 credits)**

This course will cover diseases commonly caused by microorganisms and the features of the microorganisms that cause those diseases. The course will also cover terms used to describe infections, their transmission and their occurrence, and the defenses of humans against infections. The goal of the course is to provide students with the knowledge to be able to diagnose common infectious diseases based on symptoms and test results. Usually offered in Spring semesters. (Cross-listed with BIOL 8835).

**Prerequisite(s):** BIOL 2140 or BIOL 2440 or BIOL 3240 or the equivalent, or by instructor permission. Not open to non-degree graduate students.

**BIOL 4030 SPECIAL TOPICS IN BIOLOGY (3 credits)**

A lecture and/or laboratory course for biology majors pertaining to a specific biological topic not available in the regular curriculum. Topics will be developed by individual faculty members reflecting their special interests and expertise. The course may be repeated for credit. (Cross-listed with BIOL 8036).

**Prerequisite(s):** Junior-senior, BIOL 1450 and BIOL 1750 with a grade of C- or higher.

**BIOL 4034 SPECIAL TOPICS IN BIOLOGY-LAB (1 credit)**

A laboratory course for biology majors pertaining to a specific biological topic not available in the regular curriculum, paired with a BIOL 8036/4030 Special Topics lecture course. Topics will be developed by individual faculty members reflecting their special interests and expertise. The course may be repeated for credit. (Cross-listed with BIOL 8046).

**Prerequisite(s):** Junior/senior, BIOL 1450 and BIOL 1750 with a grade of C- or higher.

**BIOL 4040 DIRECTED READINGS IN BIOLOGY (1-3 credits)**

A faculty directed study of a biological subject through selected readings, oral reports and a final written report. May be repeated up to a total of six hours for 4040 and 4050 combined.

**Prerequisite(s):** Junior-senior and written permission of instructor.

**BIOL 4050 SUPERVISED RESEARCH IN BIOLOGY (1-3 credits)**

Completion of a faculty supervised research project involving experimental design, data collection and analysis, and a final written report. May be repeated up to a total of six hours of BIOL 4040 and BIOL 4050 combined.

**Prerequisite(s):** Junior-senior and written permission of instructor.

**BIOL 4100 BIOGEOGRAPHY (3 credits)**

This course is intended as an introduction to biogeography, the study of the distribution and evolution of organisms across space and through time. Usually offered every year. (Cross-listed with BIOL 8106, GEOG 4100, GEOG 8106, GEOL 4100, GEOL 8106)

**Prerequisite(s):** BIOL 1450 and 1750 or GEOL 3100 or BIOL 3100, junior-senior.

**BIOL 4110 STATISTICS FOR BIOLOGICAL SCIENCES (4 credits)**

Introduction to statistical methods and software used to display, summarize, analyze, and interpret biological and medical data. (Cross-listed with BIOL 8116)

**Prerequisite(s):** BIOL 1450 and BIOL 1750 and MATH 1220, MATH 1130, or MATH 1530

**BIOL 4120 CONSERVATION BIOLOGY (3 credits)**

Study of biological diversity at the genetic, species and ecosystem levels, its values, and the factors that threaten it. We will explore the scientific basis of conservation biology and how it can be applied to the maintenance of biological diversity. Usually offered every year. (Cross-listed with BIOL 8126).

**Prerequisite(s):** BIOL 1450, 1750, 2140 and Junior-Senior in biology. Not open to non-degree graduate students.

**BIOL 4130 MOLECULAR GENETICS (4 credits)**

A lecture and lab course that explores the frontiers of molecular genetics research. Topics addressed will include DNA replication, gene function, gene expression, genetic manipulation, cloning, mutational analysis, genome sequencing, and epigenetics. Research techniques will include DNA/RNA isolation, PCR, cloning, gel electrophoresis, transgene generation, data analysis, and quantitative rtPCR. Students will get a solid grounding in scientific writing and presentations, as well as reading and assessing primary scientific literature. Lecture, discussion, and laboratory. (Cross-listed with BIOL 8136)

**Prerequisite(s):** BIOL 2140, 3020 and CHEM 2210 or 2260; or their equivalents. Must enroll in one lab section.

**BIOL 4140 CELLULAR BIOLOGY (4 credits)**

This course is a modern study of mammalian cell function. Focus will be placed on developing skills in experimental cellular biology. Material covered will include tissue culture techniques, cell staining applications, fluorescent microscopy, determination of gene expression, and high-throughput assay design. (Cross-listed with BIOL 8146)

**Prerequisite(s):** BIOL 2140, 3020 and CHEM 2210 or 2250. Junior or senior undergraduate standing. Must enroll in laboratory section and lecture for this course. Not open to non-degree graduate students.

**BIOL 4150 CANCER BIOLOGY (3 credits)**

The etiology of cancers, differences between types of malignancies, oncogenes and genetic modifiers, treatments, susceptibility, and tumor-induced immunosuppression are discussed. This is an active course focused on inquiry-based learning and the purpose of this course is to provide students a foundation in cancer biology while applying tools learned through cell biology, genetics, and immunology courses. (Cross-listed with BIOL 8156).

**Prerequisite(s):** BIOL 3020 and BIOL 2140. Recommended: BIOL 3240.

**BIOL 4160 BIOINFORMATICS FOR BIOLOGISTS (3 credits)**

This course intends to introduce fundamental concepts in bioinformatics with an emphasis on how to use biological databases and computational tools to solve common bioinformatics problems in biology and biomedicine. The topics consist of sequence database access and searching, sequence alignment and phylogeny, functional prediction of DNA and protein sequences, and genome sequencing and annotation. Students are expected to learn fundamental concepts in bioinformatics and gain extensive experience with the use of bioinformatics analysis tools. (Cross-listed with BIOL 8166).

**Prerequisite(s):** BIOL 2140 Genetics; BIOL 3020 Molecular Biology of the Cell; Or Permission of instructor

**BIOL 4180 FRESHWATER ECOLOGY (4 credits)**

A study of the physical, chemical and biological relationships that serve to establish and maintain plant and animal communities in freshwater environments. (Cross-listed with BIOL 8186, ENVN 4180).

**Prerequisite(s):** BIOL 1450 and BIOL 1750, junior-senior, or permission of instructor. Must enroll in lab. Not open to non-degree graduate students.

**BIOL 4210 FIRE ECOLOGY (3 credits)**

Study of fire in ecosystems including characteristics of fire, effects on flora, fauna and the abiotic environment, and use in maintaining native ecosystems. May include two weekend field exercises. (Cross-listed with BIOL 8216)

**Prerequisite(s):** BIOL 3340, junior-senior.

**BIOL 4220 POPULATION BIOLOGY (4 credits)**

Population biology takes a conceptual approach to study the dynamics, ecology, genetics, and evolution of populations. Topics include the growth and regulation of populations, population interactions, selection on individuals and groups, mating systems, and life history evolution. Implications of these topics for areas such as the ecology and evolution of disease, conservation, and resource management will be highlighted. Concepts are reinforced through labs emphasizing interpretation of results from population simulations and the relationship between theory and experimentation in population biology. Usually offered in alternate years. (Cross-listed with BIOL 8226).

**Prerequisite(s):** BIOL 2140 and 3340, junior-senior, or permission of instructor

**BIOL 4230 EVOLUTION (3 credits)**

The course emphasizes the general principles of evolution, particularly focusing on evolutionary changes and the mechanisms of evolution (natural selection, gene flow, mutation and genetic drift) that apply to all or most organisms. The course covers micro- and macroevolution, speciation, and human evolution. Students will discover how scientists can learn about what has happened in the evolutionary past and the most common patterns of change (i.e., changes that have characterized various groups of organisms). (Cross-listed with BIOL 8236).

**Prerequisite(s):** BIOL 2140, junior-senior. Not open to non-degree graduate students.

**BIOL 4240 MARINE BIOLOGY (3 credits)**

An introduction to the marine environment, this course explores physical conditions of the ocean including ocean chemistry, salinity, waves and currents, and tides as well as the ecology of planktonic, nektonic and benthic organisms— their communities and environments. Impacts of humans on the marine environment will also be covered. (Cross-listed with BIOL 8246)

**Prerequisite(s):** BIOL 1750

**BIOL 4250 FIELD MARINE BIOLOGY (1 credit)**

This lab is a hands-on introduction to the marine environment using a field trip to the Gulf Coast. Students will observe first-hand examples of local marine habitats and organisms. Students will be required to take a trip to the Gulf Coast of Texas, Louisiana, Mississippi, and Alabama during Spring Break. Students will be required to provide their own basic camping and snorkeling gear. (Cross-listed with BIOL 8256)

**Prerequisite(s):** BIOL 1750, previous or concurrent enrollment in BIOL 4240 and permission of instructor.

**BIOL 4260 BEHAVIORAL ECOLOGY (3 credits)**

Behavioral ecology is the study of behavior from an evolutionary and ecological point of view. Through the integration of research at different organizational levels and the use of many different organisms, behavioral ecology is one of the most integrative fields in biological sciences. This course will provide an introduction to the basic concepts of behavioral ecology and the integrative approaches used in behavioral ecology. Further, the course will train students in critical reading and discussion of primary literature in writing and in an oral setting. (Cross-listed with BIOL 8266)

**Prerequisite(s):** For BIOL 4260: BIOL 2140 Genetics and BIOL 3340 Ecology; or permission by the instructor. Not open to non-degree graduate students.

**BIOL 4270 ANIMAL BEHAVIOR (3 credits)**

Behavior of diverse animals for the understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit. (Cross-listed with BIOL 8276, PSYC 4270, PSYC 8276)

**Prerequisite(s):** BIOL 1750 and PSYC 1010 or permission of instructor, junior-senior.

**BIOL 4280 ANIMAL BEHAVIOR LABORATORY (3 credits)**

Laboratory and field studies of animal behavior with an ethological emphasis. Classical laboratory experiences and independent studies will be conducted. (Cross-listed with BIOL 8286, PSYC 4280, PSYC 8286)

**Prerequisite(s):** PSYC 4270 or BIOL 4270 or PSYC 8276 or BIOL 8273. Not open to non-degree graduate students.

**BIOL 4290 NEUROETHOLOGY (3 credits)**

In the field of Neuroethology a major goal is to understand the neural bases of animal behaviors in a natural context. In this course students will investigate how behaviors are generated and modulated by the nervous system in organisms ranging from insects to mammals. We will explore the neural mechanisms underlying a variety of animal behaviors as they interact with their natural environment ranging from sensory perception of the world (e.g. echolocation, electrolocation), to locomotor movements (e.g. flying, swimming), to more complex behaviors (e.g. learning, memory). (Cross-listed with NEUR 4290, NEUR 8296, BIOL 8296, PSYC 8296).

**Prerequisite(s):** NEUR 1520, NEUR 1540 and BIOL 1750; or by permission of instructor. Not open to non-degree graduate students.

**BIOL 4320 HORMONES & BEHAVIOR (3 credits)**

In this course, students will examine the interaction between hormones, chemical messengers released from endocrine glands, and behavior in both human and animal systems. Methods for studying hormonal issues on behavior will be addressed. This course will provide students in psychology, biology, and related disciplines an understanding of how hormones affect sensory processing, motor activities, and processing of information in the central nervous system. (Cross-listed with BIOL 8326, PSYC 4320, PSYC 8326)

**Prerequisite(s):** PSYC 1010 and either BIOL 1020 or 1750. Not open to non-degree graduate students.

**BIOL 4410 WETLAND ECOLOGY AND MANAGEMENT (3 credits)**

This course will examine the principles and theory of wetland ecology with application towards wetland management and regulation. An interdisciplinary overview of physical, biological and regulatory aspects of wetlands will allow students to synthesize information from their backgrounds in geography, geology and ecology. Definitions, classifications, natural processes and functions of wetland environments will be presented. Labs concentrate on field techniques used to assess specific plant, animal, soil, and hydrological characteristics of wetlands. (Cross-listed with ENVN 4410 and BIOL 8416)

**Prerequisite(s):** BIOL 3340 or instructor permission.

**BIOL 4420 RESTORATION ECOLOGY (3 credits)**

Restoration Ecology examines how people assist with the recovery of ecosystems that have been degraded. The course will examine the theory and application of restoration ecology through lecture, discussion, field trips, and development of a restoration management plan for a degraded ecosystem near Omaha. The course will provide information and resources used by restoration and land management professionals to plan, implement, and manage restorations. (Cross-listed with BIOL 8426, ENVN 4420)

**Prerequisite(s):** Junior or Senior standing.

**BIOL 4440 PLANT PHYSIOLOGY (4 credits)**

A study of plant processes and functions with emphasis on photosynthesis, growth and development, metabolism and mineral nutrition. (Cross-listed with BIOL 8446)

**Prerequisite(s):** BIOL1450, BIOL1750, and CHEM2210 or CHEM2250; or permission of instructor.

**BIOL 4450 VIROLOGY (3 credits)**

A comprehensive course about viruses. The course will address principles of viral infection, virus-host interaction, viral evolution and viral disease processes. Cellular and molecular aspects of viral infection will be the primary focus. This will include examination of viral particles, viral multiplication cycles, regulation of gene expression, viral assembly and viral escape. Viral immunology, viral defenses, viral vaccines and antiviral compounds will also be addressed. Emerging viruses and current viral topics will be a major part of the course. Usually offered in Fall semester. (Cross-listed with BIOL 8456)

**Prerequisite(s):** Prerequisites are CHEM 2260 and 2274 or CHEM 2210 and 2214, BIOL 3020 and 2140. Recommended: Biochemistry.

**BIOL 4454 VIROLOGY LABORATORY (1 credit)**

A laboratory to accompany virology lecture. This course enables students to work with viruses in the laboratory and to conduct experiments using viral systems. Experimental design, data gathering, data analysis and manuscript writing will be integral parts of the course. The experiments include host cell characterization, viral infection, virus purification from infected cells, viral genome isolation and viral transfection. Sequence analysis and sequence comparison will also be introduced. Laboratory exercises will emphasize fundamental molecular biology techniques and instrumentation. Usually offered in Fall semester. (Cross-listed with BIOL 8454)

**Prerequisite(s):** Biology 4450 - Virology is a prerequisite or co-requisite.

**BIOL 4460 COMPARATIVE IMMUNOLOGY (4 credits)**

This course is an exploration of comparative immunology across kingdoms. There will be a strong focus on human as well as mouse immunology. Laboratory sessions require dissections to determine lymphoid anatomy of representative organisms. Samples will be prepared and analyzed using immunological techniques such as flow cytometry. (Cross-listed with BIOL 8466).

**Prerequisite(s):** BIOL 3240 or consent of the instructor. Two classroom sessions and one laboratory session per week. Permit code required to register. Not open to non-degree graduate students.

**BIOL 4490 MEDICINAL USES OF PLANTS (3 credits)**

A scientific study of the biochemical properties and physiological effects of medicinal plants, including their historical uses, current applications to varying systems of the human body, and pathways by which today's potent drugs have transitioned from wild flora. Usually offered Fall semesters of even-numbered years. (Cross-listed with BIOL 8496)

**Prerequisite(s):** BIOL 1450, 1750 and junior-senior.

**BIOL 4540 PRINCIPLES OF SYSTEMATICS (3 credits)**

A thorough study of phylogenetics, including tree inference techniques, proper interpretation of evolutionary relationships and character evolution, and applications to investigations in various fields of study. Usually offered in fall semesters of odd-numbered years.

**Prerequisite(s):** BIOL 1450 and 1750, junior-senior.

**BIOL 4550 MOLECULAR AND BIOMEDICAL BIOLOGY INTERNSHIP (3 credits)**

Practical laboratory experience for students in the bachelor's of science program in Molecular and Biomedical Biology. In consultation with the MBB adviser and principal investigators, students will select a research laboratory where they will carry out an independent investigation for one semester. Most placements will be at UNMC or UNO. Recommended: Biochemistry. Usually offered Fall, Spring, Summer.

**Prerequisite(s):** Prerequisite of at least one 4000 level BIOL laboratory course.



**BIOL 4560 BIOINFORMATICS INTERNSHIP (1-3 credits)**

This course is a practical experience for students in the Bachelor of Science program in Bioinformatics. In consultation with the bioinformatics adviser and principal investigators, students will select a research laboratory and conduct an independent research project in bioinformatics for one or two semesters. Students will write a report describing their research methods, project implementation, and results. The course is limited to Bioinformatics majors and does not satisfy any requirements for other programs in the Department of Biology.

**Prerequisite(s):** BIOL 2140 Genetics, BIOI 3500 Advanced Bioinformatics Programming, and Permission of Instructor. The course is for students in the Bachelor of Science program in Bioinformatics. Not open to non-degree graduate students.

**BIOL 4600 GIS APPLICATIONS FOR ENVIRONMENTAL SCIENCE (1 credit)**

This course introduces the use of geographic information systems (GIS) and other geospatial tools for work in the fields of environmental science, ecology, and natural resource management. The course will develop a working knowledge of the common software and hardware tools used by ecologists through hands-on projects. (Cross-listed with BIOL 8606, ENVN 4600)

**Prerequisite(s):** BIOL 3340 or permission of instructor.

**BIOL 4610 ENVIRONMENTAL MONITORING AND ASSESSMENT (3 credits)**

An interdisciplinary approach to techniques for the design and implementation of environmental inventory and monitoring schemes used to evaluate natural resources. Students work as teams to synthesize information from their backgrounds in geography, geology and ecology to evaluate the impacts of human actions on environmental quality following the framework for environmental assessments provided by the National Environmental Policy Act. Course is organized to accommodate variable needs of students with different backgrounds and career choices. Usually offered every year. Cross-listed with ENVN 4610, GEOG 4610, GEOG 8616, GEOL 4610, GEOL 8616.

**Prerequisite(s):** Permission of instructor.

**BIOL 4640 MOLECULAR MICROBIOLOGY (3 credits)**

This course will cover the diversity observed in genomes, molecules, structures, metabolism, and regulation observed in microorganisms with a focus on bacteria and Archaea. Usually offered Fall semesters. (Cross-listed with BIOL 8646).

**Prerequisite(s):** Prerequisites are BIOL 2140 and BIOL 3020 or equivalents. Not open to non-degree graduate students.

**BIOL 4644 MOLECULAR MICROBIOLOGY LAB (1 credit)**

This course will train students to perform techniques commonly used in microbiology labs, such as isolation of bacteria, staining of bacterial cells, use of different media, antibiotic susceptibility tests, polymerase chain reactions, and enzymatic assays. (Cross-listed with BIOL 8645).

**Prerequisite(s):** Prerequisites of BIOL 2140 and BIOL 3020 and either BIOL 3830/8835 or BIOL 4640/8646 prior or concurrent.

**BIOL 4650 BIOCHEMISTRY I (3 credits)**

A comprehensive introduction to biochemistry emphasizing: structure-function relationships for proteins, carbohydrates, lipids, and nucleic acids; protein purification; enzyme kinetics and mechanisms; membranes and membrane transport; carbohydrate metabolism including glycolysis, the citric acid cycle and oxidative phosphorylation; and important applications of thermodynamics and the properties of water to living systems. (Fall) (Cross-listed with BIOL 8656, CHEM 4650, CHEM 8656).

**Prerequisite(s):** CHEM 2260 and CHEM 2274; and either CHEM 2400 or BIOL 3020, all with a C- or better. Other comparable courses taken at accredited colleges or universities are acceptable. BIOL 4654 must be taken concurrently.

**BIOL 4654 BIOCHEMISTRY I LABORATORY (1 credit)**

A laboratory course to help integrate the concepts learned in biochemistry lecture with the development of biochemical laboratory skills including experimental design, data analysis, presentation of results and communication of scientific information, with a focus on formal instruction in journal-style writing and notebook skills. There is an emphasis on protein properties, including enzyme activity. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. (Fall) (Cross-listed with BIOL 8654, CHEM 4654, CHEM 8654).

**Prerequisite(s):** CHEM 2260 and CHEM 2274; and either CHEM 2400 or BIOL 3020, all with a C- or better. BIOL 4650 must be taken concurrently with BIOL 4654. CHEM 4650 must be taken concurrently with CHEM 4654.

**Distribution:** Writing in the Discipline Sequenced Course

**BIOL 4660 BIOCHEMISTRY II (3 credits)**

A continuation of the study of the structure and function of biomolecules and biochemical reactions with an emphasis on metabolism of carbohydrates, lipids, amino acids and nucleotides, and the chemistry of signal transduction and genetic information transfer. (Spring) (Cross-listed with BIOL 8666, CHEM 4660, CHEM 8666).

**Prerequisite(s):** CHEM 4650 and CHEM 4654 or BIOL 4650 and BIOL 4654. BIOL 4664 must be taken concurrently.

**BIOL 4664 BIOCHEMISTRY II LABORATORY (1 credit)**

A laboratory course to help integrate the concepts learned in Biochemistry II lecture with the development of biochemical laboratory skills, to gain practical experience in experimental design, data analysis, presentation of results and communication of scientific information, with a focus on formal instruction in journal-style writing and notebook skills. There is an emphasis on nucleic acid properties. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. (Spring) (Cross-listed with BIOL 8664, CHEM 4664, CHEM 8664).

**Prerequisite(s):** CHEM 4650 and CHEM 4654 or BIOL 4650 and BIOL 4654 with a C- or better. BIOL 4660 must be taken concurrently with BIOL 4664. CHEM 4660 must be taken concurrently with CHEM 4664.

**Distribution:** Writing in the Discipline Sequenced Course

**BIOL 4710 TOXICOLOGY (3 credits)**

An overview of the fundamentals of toxicology. Concepts include the dose-response relationship, absorption, distribution and excretion of toxicants, and the biotransformation of xenobiotics. Emphasis will be given to metals, pesticides, pharmaceutical compounds, chemical carcinogenesis and endocrine disruption. Usually offered Fall. (Cross-listed with BIOL 8716)

**Prerequisite(s):** CHEM 2210 or 2260 and BIOL 1750, BIOL 3020 or equivalent.

**BIOL 4730 VERTEBRATE ENDOCRINOLOGY (4 credits)**

An overview of the fundamentals of vertebrate endocrinology. Concepts include: the mammalian hypothalamus-pituitary system, the endocrinology of mammalian reproduction, the mammalian adrenal glands, endocrine disruption, endocrinology and metabolism. (Cross-listed with BIOL 8736)

**Prerequisite(s):** CHEM 2250, BIOL 1750, BIOL 3020 or equivalent. Not open to non-degree graduate students.

**BIOL 4740 ANIMAL PHYSIOLOGY (3 credits)**

An overview of the fundamentals of animal physiology. Concepts include: the physiology of nerve and muscle function, endocrine function, cardiovascular and respiratory function, oxygen and carbon dioxide delivery by the blood, and osmoregulation and excretion. The course is comparative in nature, including examples from humans, mammals, vertebrates and invertebrate animals. Usually offered Spring. (Cross-listed with BIOL 8746).

**Prerequisite(s):** BIOL 1450, BIOL 1750, and BIOL 2140 or permission of the instructor.



**BIOL 4760 GENOME TECHNOLOGY AND ANALYSIS (3 credits)**

This course will introduce the latest genome sequencing technologies and their broad applications in biology and medicine. Students will learn how genome sequencing is conducted by different platforms and obtain practical experience of how to use bioinformatics tools for genome analysis. Students are expected to be able to perform sequence analysis efficiently and interpret the results properly. (Cross-listed with BIOL 8766)

**Prerequisite(s):** BIOL2140 Genetics; or Permission of instructor

**BIOL 4780 VERTEBRATE ZOOLOGY (4 credits)**

A study of the general biology of the subphylum vertebrata including the morphology, anatomy, physiology and ecology of vertebrate representatives. (Cross-listed with BIOL 8786)

**Prerequisite(s):** Prerequisites are BIOL 1450, BIOL 1750, and junior-senior.

**BIOL 4790 MAMMALOLOGY (4 credits)**

The biology of mammals, including their evolution, functional morphology, physiology, ecology, zoogeography, behavior, classification and identification, with emphasis on North American groups. Field trips. Usually offered in alternate years. (Cross-listed with BIOL 8796)

**Prerequisite(s):** BIOL 1450, BIOL 1750, junior or senior standing. Must enroll in lab.

**BIOL 4800 INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING (1-3 credits)**

Internship providing practical experience working with environmental organizations or government agencies for students interested in careers in environmental science and related fields. A proposed internship must be approved by the Environmental Studies Program prior to enrolling. Usually offered Fall, Spring, Summer. (Cross-listed with ENVN 4800)

**Prerequisite(s):** Permission of the Environmental Studies Program.

**BIOL 4810 BEHAVIORAL GENETICS (4 credits)**

This lecture and laboratory course will explore the interaction between behavior and genetics. Topics addressed will include research systems used in behavioral genetics research, ways of studying animal behavior, gene function, gene expression, genetic manipulation, genome sequencing, and bioinformatics. Research techniques will include behavioral observations, cognition assays, and traditional and cutting edge genetics research techniques and analyses (DNA/RNA isolation, PCR, gel electrophoresis, transgene generation, quantitative PCR, next generation sequencing). Students will design, conduct, analyze, and present semi-independent research projects over the course of the semester. (Cross-listed with NEUR 4810).

**Prerequisite(s):** BIOL 2140

**BIOL 4820 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)**

An introduction to environmental law and regulations intended for students pursuing careers in environmental sciences or related fields. The course emphasizes the origins, implementation, and enforcement of U.S. state and federal laws and regulations. Major federal environmental laws, covering air and water quality, solid and hazardous waste, pollution prevention and remediation, and natural resources will be discussed. Usually offered Fall semesters. (Cross-listed with ENVN 8826, ENVN 4820, GEOG 4820, GEOG 8826, PA 8826).

**Prerequisite(s):** Junior-senior or permission of the instructor.

**BIOL 4830 DEVELOPMENTAL GENETICS (2 credits)**

This course considers experimental approaches in developmental genetics and provides students with first-hand experience in laboratory techniques used in developmental genetics. (Cross-listed with BIOL 8836)

**Prerequisite(s):** Completion of, or concurrent registration in, BIOL 4850.

**BIOL 4840 HERPETOLOGY (4 credits)**

The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution and identification, with emphasis on North American groups. Methods for studying herpetiles are examined. Usually offered in Spring semesters of even years. (Cross-listed with BIOL 8846).

**Prerequisite(s):** Prerequisites are BIOL 1450 and BIOL 1750. Must enroll in lab. Not open to non-degree graduate students.

**BIOL 4850 DEVELOPMENTAL BIOLOGY (3 credits)**

This course explores principles underlying the development of multicellular organisms, stressing the environmental, genetic, molecular, cellular, tissue, and evolutionary mechanisms of animal development. Usually offered once per year. (Cross-listed with BIOL 8856)

**Prerequisite(s):** Prerequisites are BIOL 1450, 1750, 2140, 3020, and CHEM 3650 or BIOL 4650 or CHEM 4650 and junior-senior status.

**BIOL 4860 COMPARATIVE GENOMICS (3 credits)**

This course will introduce fundamental concepts in genomics and genome comparison. Students will learn how genomes are constructed, how they evolve, how individual genomes are unique, and what genomic knowledge means in terms of human health and medicine. (Cross-listed with BIOL 8866)

**Prerequisite(s):** BIOL2140 Genetics; BIOL3020 Molecular Biology of the Cell; Or Permission of instructor. Not open to nondegree students.

**BIOL 4870 MOLECULAR AND CELLULAR NEUROBIOLOGY (3 credits)**

This course presents foundational topics in molecular and cellular neurobiology in the context of how the nervous system is functionally organized. Topics include: nervous system cell types and their subcellular organization; electrical properties of neurons and glia; energy metabolism and biochemistry of the brain; intra- and intercellular neuronal signaling; the regulation of gene expression in neuronal cells; synaptic plasticity; and how these are altered in disease. (Cross-listed with BIOL 8876, NEUR 4870, NEUR 8876).

**Prerequisite(s):** NEUR 1500, or both NEUR 1520 and NEUR 1540, or BIOL 3020, or permission of instructor.

**BIOL 4890 GENES, BRAIN, AND BEHAVIOR (3 credits)**

This course will evaluate the complex interaction between an organism's genome and neural activity pattern in the nervous system as related to behavior. In this course students will explore how changes in gene expression (allelic variants, epigenetics, differential regulation) and gene networks within neural tissue can reciprocally influence behaviors such as communication, foraging, reproduction, and cognition. (Cross-listed with NEUR 4890, NEUR 8896, BIOL 8896, PSYC 8896).

**Prerequisite(s):** NEUR 1520, NEUR 1540, and BIOL 2140. Or by permission of instructor. Not open to non-degree graduate students.

**BIOL 4940 ENTOMOLOGY (4 credits)**

The study of insects; their classification, morphology, physiology, behavior, life histories, ecology and evolution. (Cross-listed with BIOL 8946)

**Prerequisite(s):** BIOL 1450, BIOL 1750. Junior or Senior standing.

**BIOL 4960 ADVANCED GENETICS (3 credits)**

An in-depth consideration of topics in genetic analysis. Through reading and discussion of primary and secondary literature in genetics, students will develop a deeper understanding of genetic principles, including mutation, recombination, complementation, gene regulation, the genetic structure of populations and the genetic contributions to complex traits, and how these principles and associated methodologies, including next-generation sequencing and high throughput "omics" approaches, can be used to gain insight into fundamental biological questions. (Cross-listed with BIOL 8966).

**Prerequisite(s):** BIOL 2140 and BIOL 3020 and concurrent enrollment or completion of either CHEM 3650 or CHEM 4610 or CHEM 4650 or BIOL 4650, or permission of the instructor.

**BIOL 4970 ADVANCED BOTANY (4 credits)**

Advanced Botany examines plant structures (cells, tissues, and organs) and their connections with plant functions (growth, reproduction, photosynthesis, respiration, and dispersal). Topics covered include energy metabolism, development and morphogenesis, genetics, ecology, and the latest in plant taxonomy and phylogeny, keeping students on the forefront of cutting-edge botanical research. In lab, students conduct activities such as dissecting plant organs, making microscope slides, and conducting plant-based experiments, using plants from the local area, from native Great Plains collections, and from around the world and grown in the greenhouse. Students compare and contrast both physiological and morphological adaptations to varying environments. (Cross-listed with BIOL 8976, ENVN 4970).

**Prerequisite(s):** BIOL 1750 and junior or senior student status or above or instructor permission.

**BIOL 4980 ORNITHOLOGY (4 credits)**

An introduction to the general biology of birds, including their anatomy, physiology, behavior, ecology, classification and identification, with emphasis on North American groups. Usually offered in alternate years. (Cross-listed with BIOL 8986)

**Prerequisite(s):** BIOL 1750.

**Distribution:** OBIOVRT3 - Tier III Biology Writing Course

## Biomechanics (BMCH)

### Biomechanics Undergraduate Courses

**BMCH 1000 INTRODUCTION TO BIOMECHANICS (3 credits)**

This is an introductory course in biomechanics that provides a brief history, an orientation to the profession, and explores the current trends and problems and their implications for the discipline.

**Distribution:** Social Science General Education course

**BMCH 1100 ETHICS OF SCIENTIFIC RESEARCH (3 credits)**

This course is a survey of the main ethical issues in scientific research.

**Distribution:** Humanities and Fine Arts General Education course

**BMCH 2200 ANALYTICAL METHODS IN BIOMECHANICS (3 credits)**

Through this course, students will learn the fundamentals of programming and problem solving for biomechanics with Matlab and Excel. Students will also learn the attributes and uses of other programming languages.

**BMCH 2300 BIOMECHANICAL PRINCIPLES (3 credits)**

This course is designed to provide students with the fundamental concepts of human movement as explained through mathematics and physics principles. These basic concepts will be crucial for students to excel in future biomechanics courses.

**Prerequisite(s):** PHYS 1110, PHYS 1154, and MATH 1950 to be taken concurrently or completed previously with a grade of C- or better.

**BMCH 2400 HUMAN PHYSIOLOGY & ANATOMY I (4 credits)**

The study of the structure and function of the systems of the body with an emphasis on the skeletal, muscular, cardiovascular and respiratory systems.

**Distribution:** Natural/Physical Sci General Education lecture&lab

**BMCH 2500 HUMAN PHYSIOLOGY AND ANATOMY II (4 credits)**

The study of the structure and function of the systems of the body with an emphasis on the nervous system, special senses, digestive system, endocrine system, metabolism and body temperature regulation, lymphatic system, and urinary system.

**Prerequisite(s):** PE 2400 or BMCH 2400 with a grade of C- or better.

**BMCH 3000 BIOMECHANICAL STATICS & DYNAMICS (3 credits)**

This course is the study and exploration of the effect of forces on biological systems, mainly the human body, during static and dynamic situations.

**Prerequisite(s):** PHYS 2110, PHYS 1154

**BMCH 4000 BIOMATERIALS (3 credits)**

Students will learn the classification, properties, characterization methods, body interactions, applications, and design principles of biomaterials. (Cross-listed with BMCH 8006).

**BMCH 4010 WEARABLE MATERIALS FOR BIOMECHANICAL PERFORMANCE I (3 credits)**

This course contains lecture and lab components focused on the design and characterization of wearable materials used in biomechanical and biomedical applications for heat management, moisture removal, and respiratory protection. Students will learn the classification, properties, evaluation methods, and design principles of wearable materials. (Cross-listed with BMCH 8016).

**Prerequisite(s):** BMCH 4000 or BMCH 4670 or Department Permission

**BMCH 4100 BIOINSPIRED ROBOTICS (3 credits)**

The goal of the course is to involve students in an interdisciplinary vision of biomechanics, biology, engineering and architecture by learning how humans and other animals function in their environment. These design principles from nature can be translated into novel devices, structures, and robots. (Cross-listed with BMCH 8106).

**BMCH 4110 3D PRINTING IN HEALTHCARE (3 credits)**

A study of basic principles and applications of additive manufacturing (i.e., 3D printing) in healthcare settings. This course will incorporate introductory lectures, practical applications, case studies, and hands-on experiences incorporating basic design techniques and 3D printing. Students will be exposed to various 3D printing techniques and approaches. This course will equip students with knowledge and hands-on experience of basic design techniques and 3D printing. Students will demonstrate, evaluate, and apply technical knowledge about computer aided design and 3D printing. The final project includes a presentation of short grant proposal. (Cross-listed with BMCH 8116).

**BMCH 4200 METHODS IN BIOMECHANICS I (3 credits)**

In this course students learn about the methods and equipment used in biomechanics as well as the analysis of data collected from those methods. Course experiences include both lecture and lab based learning. (Cross-listed with BMCH 8206).

**Prerequisite(s):** BMCH 3000, BMCH 2200 with a grade of C- or better or department permission.

**BMCH 4210 METHODS IN BIOMECHANICS II (3 credits)**

In this course students learn about advanced methods and equipment used in biomechanics, as well as the analysis of data collected from those methods. Course experiences include both lecture and lab based learning. This course builds on the experience gained in BMCH 4200/8206, Methods in Biomechanics I. (Cross-listed with BMCH 8216).

**Prerequisite(s):** BMCH 4200 with a grade of C- or better or department permission.

**BMCH 4630 BIOMECHANICS (3 credits)**

A study of the forces that act on a human body and the effects that they produce.

**Prerequisite(s):** BMCH 2400 [previously PE 2400] or PE 2880 or BIOL 2740 or equivalent, AND PHYS 1110 and PHYS 1154 OR MATH 1950 to be taken concurrently or completed previously with a grade of C- or better.

**BMCH 4640 ORTHOPEDIC BIOMECHANICS (3 credits)**

Orthopedic Biomechanics focuses on the use of biomechanical principles and scientific methods to address clinical questions that are of particular interest to professionals such as orthopedic surgeons, physical therapists, rehabilitation specialists, and others. (Cross-listed with BMCH 8646).

**Prerequisite(s):** BMCH 4630 or department permission.

**BMCH 4650 NEUROMECHANICS OF HUMAN MOVEMENT (3 credits)**

A study of basic principles of neural process as they relate to human voluntary movement. Applications of neural and mechanical principles through observations and assessment of movement, from learning to performance, as well as development. (Cross-listed with NEUR 4650).

**Prerequisite(s):** BMCH 1000 or PE 2430.

**BMCH 4660 CLINICAL IMMERSION FOR RESEARCH AND DESIGN (3 credits)**

This course will involve exposure to current clinical practices, identification of unmet clinical needs, and information regarding future career options. In this course, students will be matched with local clinical sites to provide a unique opportunity for innovative and interdisciplinary approaches to problem solving subject to practical constraints. Concepts in clinical rehabilitation, integrated assessments, regulation of medical devices in health care will be covered. This course will review the latest research efforts for rehabilitation in the context of device design and implementation. (Cross-listed with BMCH 8666).

**Prerequisite(s):** BMCH 4630 or equivalent and Instructor Permission. Not open to non-degree graduate students.

**BMCH 4670 INTRODUCTION TO MECHANICS OF BIOMATERIALS (3 credits)**

In this course students will learn how to analyze the stresses and strains in different structures under complex loading conditions with extensive examples from biomaterials and materials generally used in the medical device field. (Cross-listed with BMCH 8676).

**Prerequisite(s):** BMCH 3000 or Department Permission

**BMCH 4680 SPORTS BIOMECHANICS (3 credits)**

This course is intended to provide students with a foundational knowledge on how to analyze sport movements through biomechanical analytical methods. Students will utilize foundational biomechanical principles and apply them to a variety of sports and associated movements. (Cross-listed with BMCH 8686).

**Prerequisite(s):** BMCH 4630 or KINS 4100 or Instructor Permission

**BMCH 4690 CARDIOVASCULAR BIOMECHANICS (3 credits)**

This course will introduce students to cardiovascular biomechanics, emphasizing the integration of analytical and experimental methods to better understand the mechanobiology of tissues. (Cross-listed with BMCH 8696).

**Prerequisite(s):** BMCH 3000, BMCH 4670, or Department Permission

**BMCH 4700 INTERNSHIP IN SPORTS MEDICINE AND BIOMECHANICS RESEARCH (3 credits)**

This course is an on-campus, supervised, educational work experience of at least 150 clock hours at an approved worksite offering programs and experiences in sports medicine or biomechanics. (Cross-listed with BMCH 8706, ATHT 8706).

**Prerequisite(s):** 2.5 GPA and instructor permission

**BMCH 4980 CAPSTONE DESIGN IN BIOMECHANICS I (4 credits)**

Teams of senior-level students work with sponsors and faculty advisers to develop solutions to real problems in the biomechanics and health-care related fields.

**Prerequisite(s):** Department Permission.

**BMCH 4990 CAPSTONE DESIGN IN BIOMECHANICS II (4 credits)**

Teams of senior-level students work with sponsors and faculty advisers to develop solutions to real problems in the biomechanics and health-care related fields. The Capstone Design II course is intended to further develop and validate the concept direction chosen during Capstone Design I by designing the specific details necessary to build and test a proof-of-concept prototype.

**Prerequisite(s):** BMCH 4980, or department permission.

# Black Studies (BLST)

## Black Studies Undergraduate Courses

**BLST 1000 INTRODUCTION TO BLACK STUDIES (3 credits)**

BLST 1000 provides students with an overview of African culture and history and the black Diaspora. A key component of this course is to interrogate the meanings and dimensions of slavery and colonialism, and their continuing political, social and cultural implications. Approaches essentially include historical examination of African and African American societies and cultures from pre-colonial and slavery periods to the present.

**Distribution:** Social Science General Education course and U.S. Diversity General Education course

**BLST 1050 CLASSICAL AFRICAN CIVILIZATIONS (3 credits)**

Classical African Civilization is an introductory survey of the civilizations of Africa and African people prior to 1500 C.E., with emphasis on the evolution of the peoples and nations, their civilizations, and the rise and fall of indigenous states. In particular, this course will cover the classical civilizations of Kemet (Ancient Egypt), Nubia, Axum, Carthage, Ghana, Mali, and Songhay. (Cross-listed with HIST 1050)

**Distribution:** Global Diversity General Education course

**BLST 1950 BLACK WOMEN IN AMERICA (3 credits)**

This course will examine how Black women in America have evolved politically, economically, and socially under oppressive conditions of slavery, the Reconstruction Era, Jim Crow, and through the Civil Rights, Black Lives Matter, and "Me Too" Movements. The underlying themes of this course are the impact of gender and race on Black women, with an emphasis of how gender and race are fueled by white supremacy, patriarchy, colonialism, capitalism, and imperialism. (Cross-listed with WGST 1950)

**Distribution:** U.S. Diversity General Education course

**BLST 2100 EXPERIENCES IN BLACK STUDIES (3 credits)**

Experiences in Black Studies is an undergraduate course that provides students with foundational knowledge and key concepts of the study of African populations throughout time and across space. Students will critically examine and discuss historical, geographical, cultural, social, psychological, legal, political, and economic conditions that influence and impact Black populations and shape the interdisciplinary dimensions of Black Studies.

**Distribution:** U.S. Diversity General Education course

**BLST 2120 HISTORY OF MODERN AFRICA (3 credits)**

This course covers the era of the beginning, development and decline of European colonialism in Africa. The movement for decolonization, the emergence of independent sovereign nations and the strategic role that Africa plays in the forum of industrialized and developed nations is investigated. It examines the impact of European cultures and forced labor on traditional Africa, and the struggle for a resolution of the conflict between the three major traditions on the continent - Western and Indigenous. Religious indigenous practices are also considered, along with Christian and Islamic cultures. (Cross-listed with HIST 2920).

**BLST 2130 AFRICAN POLITICS (3 credits)**

African Politics examines the socio-cultural and economic environments which characterize political life in contemporary Africa. This course examines contemporary African politics and government in post-independence Africa, and the pre-colonial political and economic systems which influence contemporary African politics. The course assesses the various approaches used to study the political development of the African continent; examines the processes, features, and institutions of the African states; addresses key and persistent issues about African politics; and examines dimensions of social change and political reform. (Cross-listed with PSCI 2130).

**Distribution:** Global Diversity General Education course

**BLST 2240 READINGS OF AFRICAN AMERICAN WRITERS (3 credits)**

Readings of African American Writers will cover an anthology of writings by African American authors from poetry to novels. This course seeks to improve students' abilities to read critically, to write analytically, and to substantially increase student knowledge of Black literary traditions and authors. Students taking this course will examine more than two centuries of writings by Black authors, from the colonial era to contemporary times, and will learn about the African experience in America through literature.

**Prerequisite(s):** ENGL 1150 or permission of Instructor

**BLST 2260 BLACK SHORT STORY (3 credits)**

A study of short stories written by black American authors as literature and as experience. The course explains and defines cultural terms and practices, and attempts to prepare students for multicultural living. (Cross-listed with ENGL 2260.)

**Prerequisite(s):** ENGL 1150, ENGL 1154, or permission of instructor.

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**BLST 2350 AFRICAN AMERICAN LITERATURE 1746-1939 (3 credits)**

This course traces the development of black literature from 1746 to 1939. Included will be a study of multiple genres including: poetry, short story, novel, drama, and nonfiction. Trends to be studied will include early black writers, neoclassic and romantic traditions, and the Harlem Renaissance and Depression era schools of thought. (Cross-listed with ENGL 2350).

**Prerequisite(s):** ENGL 1160 or permission.

**BLST 2360 AFRICAN AMERICAN LITERATURE 1940-PRESENT (3 credits)**

This course traces the development of the literary contribution that black Americans have made from 1940 to the present. The course will study multiple genres including: poetry, short story, novel, drama, and nonfiction. Trends to be studied include an evolution in resistance in writing, a movement toward literary assimilation in the 1940s-1950s, and the subsequent movement toward "Black Arts" from the 1960s to the present. (Cross-listed with ENGL 2360).

**Prerequisite(s):** ENGL 1160 or instructor permission

**BLST 2410 AFRICAN AMERICAN HISTORY I: 1619-1865 (3 credits)**

The course examines the history of the earliest Africans in the Americas and briefly examines traditional African societies. It covers the transatlantic slave trade and its effects on Europe, Africa and the Americas, and analyzes the development of Afro-American culture and the struggle for freedom. (Cross-listed with HIST 2040)

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**BLST 2420 AFRICAN-AMERICAN HISTORY II: 1865-1954 (3 credits)**

A survey of Afro-American history from the Civil War to the present. Covers Reconstruction and its overthrow, including the new methods of control which replaced slavery. Discusses the development of black ideologies and institutions. Traces urban migration and its impact on black society and culture. Follows black progress through World War II, the 1954 Supreme Court Decision, and rising militancy. (Cross-listed with HIST 2050)

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**BLST 2430 AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY (3 credits)**

This course is divided into three main parts: the Civil Rights Phase (1954-1963), during which the dominant mood was optimism over the possibilities of integration; the Black Power Phase (1963-1974), and the Pragmatist Phase (1972-present), characterized by attempts to preserve and maintain gains already won. (Cross-listed with HIST 2060)

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**BLST 2510 MUSIC AND THE BLACK EXPERIENCE (3 credits)**

Music and the Black Experience will provide students with historical and cultural knowledge of African Americans in the American music entertainment industry; the cultural influences of West African music traditions in African American music; and the American socio-political experiences that influenced music genres unique to Black people. Students will explore how West African music traditions survived and evolved through American slavery, reconstruction, the Civil Rights era, and into the 21st century; and how Black musical artists challenged racial discrimination in the music industry to create distinct music genres culturally unique to Black people. Overall, students taking this course will gain an understanding of the cultural role of music throughout the Black experience in America, and an appreciation for African American musical artists and composers who influenced all popular American music genres, from Spirituals to Broadway. (Cross-listed with MUS 2510).

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**BLST 2520 HIP HOP MUSIC & AFRICAN AMERICAN URBAN CULTURE (3 credits)**

Hip-Hop Music and African American Urban Culture will provide students with a survey of the relationship between African Americans, music, and pop culture. In this course, students will discuss the historical role of African American musicians from the early 1900s that directly influenced contemporary Rap & Hip Hop genres; they will explore the politics of Rap and the links between incarceration and Hip Hop culture; and they will gain an overall understanding of the influence of African American culture on Rap and all other American music genres.

**BLST 2540 INTRODUCTION TO EGYPTIAN HIEROGLYPHS (3 credits)**

Introduction to Egyptian Hieroglyphics will provide students with fundamental elements of Kemetic (ancient Egyptian) grammar, vocabulary, transliteration, and translation. Egyptian hieroglyphs, classically referred to as the "medu netcher," is the oldest written language on the African continent. Students will embark on an examination of primary texts which reveal important features of classical Egyptian culture and civilization. By studying this ancient African language, students will gain historical knowledge of the ancient cultures of Kemet and other classical Nile Valley civilizations. (Cross-listed with HIST 2540).

**BLST 2550 AFRICAN AMERICAN ECONOMICS AND CONSUMERISM (3 credits)**

This course traces the evolution of African American business and economic development systems in the U.S. and will examine historical economic and political influences which impact African American business communities. Students will be exposed to various aspects of African American business and economics, including Black entrepreneurship and Black owned businesses before, during, and after slavery; an analysis of the role of Black churches in African-American communities; and the impact of modern economic and political systems on African American business communities. (Cross-listed with ENTR 2550).

**Distribution:** U.S. Diversity General Education course

**BLST 2700 AFRICAN PHILOSOPHY (3 credits)**

This course explores ancient, traditional and contemporary philosophical/theological concepts and doctrines of Africans through an investigation of their cosmological, metaphysical, ontological and ethical world views.



**BLST 2730 THE BLACK SPIRITUAL EXPERIENCE (3 credits)**

The Black Spiritual Experience course examines the trajectory of early African religions and philosophies, and their syncretization with European settler religions in America that have been practiced and embraced by Blacks in the U.S. since slavery. Students will survey the historical development of the Black church in America, and the emergence of liberation and Black theologies to combat white supremacy, oppression, and exploitation. This course will explore the cultural importance of music, dance, and art in worship and Black spiritual expressions; the role of religion and theology in empowering and uplifting African Americans, particularly during the Black Power and Civil Rights movements; the political impact of Black religious institutions in the long fight against systemic racism, racial violence, police brutality, and voter suppression in America; and the challenges of inclusion, equity, and intersectionality within the Black church around issues of gender, class, and sexual orientation. (Cross-listed with RELI 2730).

**Distribution:** U.S. Diversity General Education course

**BLST 3030 GEOGRAPHY OF AFRICA (3 credits)**

This course is about the human geography of Africa. It offers an overview of the geography, economics, politics, history, oral and written literature, art, anthropology and sociology of the African continent, with particular focus on sub-Saharan Africa. The course attempts to dispel myths and stereotypes about the African continent and facilitates an understanding of the dynamics that shaped and continue to shape African systems and people. Students taking Geography of Africa will engage in a comprehensive and systematic survey of the environments, natural resources, populations, their cultures, and histories of the geographic regions of Africa and their development. (Cross-listed with GEOG 3030).

**Prerequisite(s):** Junior Standing or Instructor Permission

**BLST 3120 THE AFRICAN AMERICAN EXPERIENCE IN POLITICS (3 credits)**

This course will provide a historical and contemporary survey of the African American political experience in the United States, from the passage of the 15th Amendment in the late 1800s, to the 1965 Voting Rights Act, and continuing into the 21st century. Students will examine the evolution of the Black political experience, with emphasis on the fight against enslavement, segregation, lynchings and mass incarceration, and the long struggle of African Americans against institutional and structural racism in the American political system. (Cross-listed with PSCI 3120).

**Prerequisite(s):** BLST 1000

**Distribution:** U.S. Diversity General Education course

**BLST 3250 RACE, PSYCHOLOGY & CULTURAL DIFFERENCE (3 credits)**

Race, Psychology & Cultural Difference is an introductory course that teaches students the psychology behind prejudice, stereotyping, and implicit bias when encountering racial and cultural difference, with particular focus on African Americans. In this course, students will explore concepts of racial and cultural difference, examine fundamental psychological concepts relative to racial and cultural prejudice and stigmas, and discuss cognitive processes of categorization and stereotyping that shape perceptions of racial and cultural difference. Overall, students will explore a conceptual framework for understanding race, psychology, and cultural difference and will learn psychological well-being strategies and approaches for mindfulness, self-regulation, and self-affirmation as challenges to racial and cultural prejudice, stereotyping, and implicit bias. (Cross-listed with PSYC 3250).

**Prerequisite(s):** Sophomore standing or permission of instructor

**BLST 3410 LAW AND THE BLACK COMMUNITY (3 credits)**

Law and the Black Community provides an in-depth examination of the racialized American legal process as it pertains to and affects African Americans in the U.S. From the formation of the U.S. Constitution to present day, this course analyzes intersections of race, law, politics and culture, and explores the administration of justice and Black experiences through a critical legal perspective. (Cross-listed with CRCJ 3410, PSCI 3410).

**Prerequisite(s):** BLST 1000 OR CRCJ 1010 OR Junior standing OR instructor permission.

**Distribution:** U.S. Diversity General Education course

**BLST 3450 AFRICAN ECONOMIC DEVELOPMENT (3 credits)**

African Economic Development critically examines historical, political, and socioeconomic forces that have shaped African economies. Students taking this course will learn about the evolution of the modern economic systems, methods of production, distribution and exchange which affect African economies. The course examines the historical impact of colonialism, capitalism, and imperialism on the displacement of ancient trade routes and markets throughout the African continent; the historical impact of these foreign colonial states and tools on the development of contemporary African private sectors, economic institutions, and global competition; and contemporary strategies of economic development, regional cooperation, and international trade, particularly as they affect Sub-Saharan Africa. (Cross-listed with PSCI 3450).

**Prerequisite(s):** junior standing or permission of instructor

**BLST 3510 CULTURAL COMMUNICATION IN AFRICAN-AMERICAN CINEMA (3 credits)**

This course examines ways in which cultural identity is communicated through African-American cinema, defined as movies with predominantly African American filmmakers, producers, and/or actors. Cultural communication is integrated with historical, political, and social motivation for African-American cinema. (Cross-listed with JMC 3510)

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**BLST 3990 COMMUNITY STUDY PROJECT (3 credits)**

The Community Study Project course is designed to teach interdisciplinary students to synthesize, apply, and integrate Black Studies research methods and tools with compatible disciplines and research areas to develop local, community-based research projects. Students taking this course will learn to identify and assess a local community's needs and assets; to collect, analyze, and present data about that community that is both participatory and inclusive of the community; and to identify strengths, limitations, and challenges when conducting research in local, urban communities. Research projects may be individual or in groups and may involve public or private community service organizations.

**Prerequisite(s):** Junior or senior standing or permission of instructor.

**BLST 4030 AFRICANA RELIGIONS (3 credits)**

An introduction to religions in Africa and the diaspora, including African Traditional Religions, Christianity, Islam, and Afro-Caribbean religious traditions, using anthropological, historical, and other academic approaches to the study of religious and spiritual traditions. In particular, students will learn about the role of spirits, ancestors, witches, and other invisible agents in ideas and practices regarding health and healing. Finally, the class will examine the complex inter-relationships between religious ideas and practices and contemporary post-colonial political-economic realities, including the consequences of genocide and other human rights violations and the role of religious communities in social and economic development. (Cross-listed with RELI 8036, RELI 4030, BLST 8036).



**BLST 4120 BLACK WOMEN LEADERS IN LIBERATION MOVEMENTS (3 credits)**

This course studies scholarship on race, gender, and leadership with a specific focus on African and African descended women's roles in liberation movements in the U.S. and worldwide. Especial focus will be on the use of their personal narratives to analyze the wide range of ideas in the conception and execution of leadership. (Cross-listed with WGST 4120, BLST 8126).

**Prerequisite(s):** Junior standing or permission of instructor.

**BLST 4150 AFRICAN AMERICAN PSYCHOLOGY (3 credits)**

African American Psychology traces the psychological history of Africans and African Americans from self-attributes and identity, through race and racism, to cognition, learning, and language. This course will review concepts relevant to understanding the psychology of African Americans, methodological and research issues, and best practices. (Cross-listed with BLST 8156, PSYC 4150, PSYC 8156).

**Prerequisite(s):** BLST 1000 and Junior standing or Instructor permission

**Distribution:** U.S. Diversity General Education course

**BLST 4210 THE HARLEM RENAISSANCE (3 credits)**

"The Harlem Renaissance" was the name given to the explosion in cultural, artistic, and social awareness that occurred primarily in Harlem, an area of New York City, between the end of World War I and the middle of the 1930s. This course will familiarize students with the general characteristics of African American literature produced during this period and its relation to African American literature and American literature writ large. The selected texts and writers will provide particular insight into the historical experiences of African Americans in the U.S. primarily between the two world wars and inform the subsequent cultural production of African Americans in later years. (Cross-listed with ENGL 8216, ENGL 4210, BLST 8216).

**Prerequisite(s):** ENGL 1150 or ENGL 1160, ENGL 2410 recommended

**BLST 4220 PAN AFRICANISM & BLACK LIBERATION (3 credits)**

The Pan-Africanism and Black Liberation course will expose students to the historical origins and development of Pan-Africanism, and the connection to global Black liberation movements. In this course, students will learn about the origin of Pan-Africanism, including major Pan-African leaders and historical events; the definitions of Pan-Africanism, Black Nationalism, Ethiopianism, and Negritude; and the commonalities and linkages between African continental and diasporic Pan-African liberation movements. Students will critically examine the differences between Pan-Africanism as an ideological, political, and cultural movement, and will explore the evolution of Pan-African ideology and philosophy in the 21st century. (Cross-listed with BLST 8226)

**Prerequisite(s):** Junior or senior standing or permission of instructor

**BLST 4260 WOMEN OF COLOR WRITERS (3 credits)**

Women of Color Writers is designed to introduce students to the multicultural, literary experience and contributions of women of color writers. The course will elucidate the multi-ethnic and feminist/womanist perspectives reflected in literary works by examining the themes, motifs and idioms used to portray woman. The course examines critically the implications and conceptual grounds of literary study which have been based almost entirely on male literary experiences. (Cross-listed with BLST 8266)

**Prerequisite(s):** Black studies major or permission of instructor.

**BLST 4350 THE BLACK ATLANTIC (3 credits)**

This course examines the cultural and ethnic history of Black people who comprised "The Black Atlantic." The course is organized historically and begins with a brief overview of the European slave trade on the West African Coast in the 15th century. From there, we look critically at the arrival of Africans to the New World, examine varieties of slavery and freedom in the Americas, and conclude with slave revolts and emancipation activism in the 18th and 19th century. We will use the Haitian Revolution (in which Haiti became the first country to be founded by formerly enslaved people) as a special case study, a conduit for our exploration of this socio-cultural, economic, and Diasporic space. (Cross-listed with BLST 8356, HIST 4080, HIST 8086).

**Prerequisite(s):** Junior or senior standing or permission of instructor

**BLST 4470 SOUTH AFRICA & THE SOCIO POLITICS OF APARTHEID (3 credits)**

South Africa and the Socio Politics of Apartheid examines the lived experiences of South African people under the Apartheid system, and their long struggle against European colonial oppression and racial segregation throughout the 20th century. Students will examine the laws, tools, and strategies that developed and sustained Apartheid, and the anti-Apartheid movements and international pressure that led to its repeal and South African democratic elections. (Cross-listed with BLST 8476, PSCI 8476, PSCI 4470, SOC 8476, SOC 4470).

**Prerequisite(s):** Junior standing or permission of instructor

**Distribution:** Global Diversity General Education course

**BLST 4580 COMMUNICATING RACE, ETHNICITY & IDENTITY (3 credits)**

This is an undergraduate/graduate course that provides students with definitional and experiential knowledge about the origin of racial concepts, theories, and practices, definitions of ethnicity and identity, and the communicative relationship between race, ethnicity, and identity. (Cross-listed with BLST 8586, CMST 4580, CMST 8586)

**Prerequisite(s):** CMST 4530 or Junior standing or instructor permission; minimum cumulative GPA of 2.25.

**Distribution:** U.S. Diversity General Education course

**BLST 4590 AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of African-American popular music literature from c. 1900-present. The objective will be to provide the student with a broad overview with special attention given to musicians and individual works which typify a style or form. Listening assignments will be an integral part of the course, and attendance at live performances will supplement the lectures, discussions and readings. (Cross-listed with BLST 8596).

**BLST 4650 SLAVERY AND RACE RELATIONS IN THE AMERICAS (3 credits)**

Slavery and Race Relations in the Americas examines the historical relationship between the trans-Atlantic slave trade and American race relations, connecting the enslavement of Africans in the Americas to race relations in the Caribbean, Latin America, and the United States. (Cross-listed with BLST 8656, HIST 4070, HIST 8076, LLS 4650, LLS 8656).

**Prerequisite(s):** BLST 1000 and junior standing or permission of instructor

**Distribution:** U.S. Diversity General Education course

**BLST 4710 BROWN V. BOARD OF EDUCATION (3 credits)**

Brown v. Board of Education traces the educational history of African Americans from segregation to desegregation to re-segregation. This course will review the legal cases before and after the Supreme Court's Brown decision, their aftermath, and the effects on educational policies and practices. (Cross-listed with BLST 8716, PSCI 8136, PSCI 4130).

**Prerequisite(s):** Junior standing OR senior standing or permission of instructor.

**Distribution:** U.S. Diversity General Education course

**BLST 4750 CRITICAL QUANTITATIVE RESEARCH METHODS (3 credits)**

This online undergraduate/graduate course is a comprehensive source for foundational concepts in quantitative behavioral research. The course is designed to expose students to the role and importance of critical quantitative research of marginalized and underrepresented groups. Students will examine and gain definitional and empirical knowledge about conducting culturally relevant quantitative research and will learn both the logic behind and procedures for critical quantitative research, including research ethics, correlational and experimental designs, data collection, sampling, analysis, and reporting. (Cross-listed with BLST 8756).

**Prerequisite(s):** PSYC 3140 or Junior standing or instructor permission.

**BLST 4880 BLACK LEADERSHIP IN AMERICA (3 credits)**

Designed as a senior and graduate seminar, Black Leadership in America will examine the meaning and attributes of effective leadership strategies of African Americans, particularly as it relates to Black student leaders. The role of Black leadership will be explored using leadership and community theory, and will highlight the impact of Black culture within the broader American experience. (Cross-listed with BLST 8886).

**Prerequisite(s):** Senior or graduate student or instructor permission.

## Business Administration (BSAD)

### Business Administration Undergraduate Courses

**BSAD 1010 CBA SCHOLARS ACADEMY SEMINAR (0 credits)**

This course will provide CBA Scholars Academy students the opportunity to learn about their Gallup Strengths, network with other CBA Scholars and staff, and create strategies for connecting with business professionals.

**Prerequisite(s):** Limited to students who are first-year freshman members of the College of Business Administration Scholars Academy. Not open to non-degree graduate students.

**BSAD 1020 CBA INTERNATIONAL STUDENT SEMINAR (0 credits)**

This course will provide CBA International students the opportunity to learn more about U.S. & UNO culture. It will provide academic success skills, networking with other International students & staff & faculty.

**Prerequisite(s):** Limited to International students in the College of Business Administration.

**BSAD 1100 BUSINESS MAVERICKS: COLLEGE AND CAREER FOUNDATIONS (1 credit)**

This course will provide Bachelor of Science in Business Administration (BSBA) students with academic success tools and techniques as well as initial career interest assessments and exploration opportunities.

**Prerequisite(s):** Bachelor of Science in Business Administration (BSBA) majors at UNO. Not open to non-degree graduate students.

**BSAD 1200 CBA PROFESSIONAL DEVELOPMENT SEMINAR 2 (1 credit)**

This course will provide knowledge that Bachelor of Science in Business Administration (BSBA) students can use to identify employers that best fit their academic and career goals, to determine their own personal brand, to develop effective resumes and cover letters, and to effectively build and utilize professional networks.

**Prerequisite(s):** BSBA majors at UNO.

**BSAD 2130 PRINCIPLES OF BUSINESS STATISTICS (3 credits)**

An accelerated course covering statistical methods used in business analysis. Topics include descriptive statistics, graphical and tabular methods of data presentation, probability, discrete and continuous distributions, hypothesis testing of means and proportions for single and multiple populations, and regression analysis.

**Prerequisite(s):** Math 1320 (for students who matriculated at or prior to Summer 2015) or Math 1360 or MATH 1370 or Math 1930 with a 'C'(2.0) or better and at least a 2.3 GPA.

**BSAD 2600 ETHICS IN ORGANIZATIONS (3 credits)**

This course will cover general ethics challenges, processes, and decision-making in organizations. Participants will learn the value of abiding by high ethical standards and will gain the knowledge necessary to make sound ethical decisions. This course is intended for all majors, and students who are permitted to enroll will receive a scholarship.

**Prerequisite(s):** ENGL 1150 and ENGL 1160, MATH 1310 or MATH 1220, CMST 1110, and a min GPA of 2.0. Students should contact instructor to apply for the Schumacher Scholarship that accompanies this course. Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**BSAD 2700 GLOBALIZATION OF BUSINESS ENTERPRISE (3 credits)**

This course is for students who are interested in gaining a framework for thinking broadly but systematically about international business and differences across countries.

**Distribution:** Social Science General Education course and Global Diversity General Education course

**BSAD 3160 MANAGERIAL STATISTICS FOR BUSINESS (4 credits)**

An accelerated course covering statistical methods used in business analysis. Topics include descriptive statistics, graphical and tabular presentation of data, probability, analysis of discrete and continuous data, regression analysis, forecasting methods.

**Prerequisite(s):** MATH 1320 or MATH 1370 with a 'C'(2.0) or better, 2.5 GPA.

**BSAD 3600 BUSINESS ETHICS (3 credits)**

Students will learn about the factors, opportunities and pressures that lead to ethical dilemmas, and will develop their understanding of foundations and processes that encourage and reward ethical decision making and behaviors. Lots of examples, sourced from case studies and current events will be provided. (Cross-listed with MGMT 3600, MKT 3600)

**Prerequisite(s):** Junior classification (minimum of 58 earned credit hours) with a minimum 2.5 cumulative GPA. Completion of MGMT 3200 or MKT 3200 with a minimum grade of 'C' (2.0).

**BSAD 4000 INTERNATIONAL BUSINESS STUDY ABROAD (3 credits)**

The purpose of this course is to provide students with an international business and cultural experience through a study tour in a selected international location. Students will develop an understanding of the factors that affect international business decisions by visiting American companies operating abroad and foreign companies that export goods and services to the U.S.

**Prerequisite(s):** Junior standing or permission of the instructor

**BSAD 4920 SPECIAL TOPICS IN BUSINESS (3 credits)**

This business-focused special topics course is designed to provide students the opportunity to focus on a current or emerging topic in any area of business. An in depth exploration of the topic will be undertaken with the expectation that students will play an active role in the course and engage deeply with the material and concepts addressed within the focal topic area. (Cross-listed with BSAD 8926).

**Prerequisite(s):** Not open to non-degree graduate students.

## Chemical Engineering (CHME)

### Chemical Engineering Undergraduate Courses

**CHME 1130 INTRODUCTION TO CHEMICAL ENGINEERING I (2 credits)**

The profession of chemical engineering. Chemical engineers' impact on today's societal issues, team problem solving, communication skills, and the introduction of chemical process flow sheets. (Has guest lectures and requires field trips.)

**Prerequisite(s):** Not open to nondegree students

**CHME 1140 INTRODUCTION TO CHEMICAL ENGINEERING II (2 credits)**

Analytical and computational methods for solving problems related to chemical process measurements, properties of single compounds, properties of mixtures, stoichiometry.

**Prerequisite(s):** MATH 1950, CHEM 1180, CHEM 1184 (prereq or coreq). Not open to nondegree students.

**CHME 2020 MASS & ENERGY BALANCES (3 credits)**

Application of the principle of conservation of mass and energy in the analysis of steady-state chemical processes. Selected topics in physical, chemical and thermal property estimation.

**Prerequisite(s):** CHEM 1190 and CHME 1140 and coreq MATH 1960, not open to nondegree students

**CHME 2030 EQUILIBRIUM STAGE OPERATIONS (3 credits)**

Phase equilibria and mass and energy balances applied to staged mass transfer operations.

**Prerequisite(s):** MATH 1960 and CHME 2020 and coreq CIST 1400, not open to nondegree students

**CHME 3120 CHEMICAL ENGINEERING COMPUTATION (3 credits)**

Computational methods in orthogonal polynomials, numerical integration, matrix operations and ordinary differential equations as they apply to chemical engineering problems such as separations, reactor design, transport operations and control.

**Prerequisite(s):** Junior standing and CIST 1400 and MATH 2350, not open to nondegree students

**CHME 3220 CHEMICAL ENGINEERING THERMODYNAMICS I (3 credits)**

Application of three fundamental laws to chemical engineering problems.

**Prerequisite(s):** CHME 2020 and CSCI 1840.

**CHME 3230 CHEMICAL ENGINEERING THERMODYNAMICS II (3 credits)**

Application to multicomponent systems: thermodynamics, phase equilibria, chemical reaction equilibria, and process analysis.

**Prerequisite(s):** CHME 3220, not open to nondegree students

**CHME 3320 TRANSPORT OPERATIONS I (3 credits)**

Mass, momentum, and energy transport phenomena and their applications in chemical engineering.

**Prerequisite(s):** MATH 1970 and (CHME 2020, MENG 2000 or MECH 2000), not open to nondegree students

**CHME 3330 TRANSPORT OPERATIONS II (3 credits)**

Continuation of CHME 3320.

**Prerequisite(s):** CHME 3320, not open to nondegree students

**CHME 4300 CHEMICAL ENGINEERING LAB (4 credits)**

Selected experiments in chemical engineering. Emphasis on experimental design, interpretation of results, and formal oral and written reports. (Cross-listed with CHME 8306).

**Prerequisite(s):** CHME 2030 and CHME 3330 and coreq CHME 4420

**CHME 4340 DIFFUSIONAL OPERATIONS (3 credits)**

Application of diffusional theory to the design of processing equipment required for absorption, adsorption, leaching, drying, and chemical reactions. (Cross-listed with CHME 8346).

**Prerequisite(s):** CHME 3330 and CHME 4420 and MATH 3350

**CHME 4420 CHEMICAL REACTOR ENGINEERING AND DESIGN (3 credits)**

Basic principles of chemical kinetics are coupled with models descriptive of rates of energy and mass transfer for the analysis and design of reactor systems. (Cross-listed with CHME 8426).

**Prerequisite(s):** CHME 3230

**CHME 4890 AIR POLLUTION, ASSESSMENT AND CONTROL (3 credits)**

Survey of the present status of the air pollution problem and the application of engineering and scientific principles to its practical and effective coordinated control. (Cross-listed with CHME 8896).

**Prerequisite(s):** Senior standing

## Chemistry (CHEM)

### Chemistry Undergraduate Courses

**CHEM 1010 CHEMISTRY IN THE ENVIRONMENT AND SOCIETY (3 credits)**

An introduction to 1) the environment's impact on each of us, 2) our impacts on the environment, and 3) the chemistry needed to understand it. Is it in your lungs?...in your food?...on your skin? What are the sources of your electricity and why does it matter? Are your choices sustainable? Those and related questions will be addressed as you explore air quality, climate change, fossil fuel combustion (and its alternatives), polymers, medicine, nutrition, and more in the context of their social, political and economic connections. (Fall, spring) Fulfills a University General Education Natural/Physical Science Requirement.

**Prerequisite(s):** MATH 1220 or MATH 1300 or MATH 1320 or higher with a grade of C- or better or equivalent.

**Distribution:** Natural/Physical Sci General Education lecture

**CHEM 1014 CHEMISTRY IN THE ENVIRONMENT AND SOCIETY LABORATORY (1 credit)**

Laboratory for CHEM 1010, a survey of the relationship of chemistry to current problems in environmental control, medicine, technology and energy production. (Fall, Spring)

**Prerequisite(s):** CHEM 1010 to be taken concurrently or completed previously with grade of C- or better.

**Distribution:** Natural/Physical Sci General Education lab course

**CHEM 1140 FUNDAMENTALS OF COLLEGE CHEMISTRY (4 credits)**

A comprehensive introduction to the basic principles of chemistry. This course is intended for all students needing a one-semester introductory course with laboratory including allied health students continuing to CHEM 2210, or those seeking a stronger background before enrollment in CHEM 1180. (Fall, spring, possibly summer). Fulfills a University General Education Natural/Physical Science Requirement.

**Prerequisite(s):** MATH 1220, MATH 1300, MATH 1320 or equivalent/higher (C- or better) or ACT Math subscore 23+ or ALEKS/Accuplacer score 4+ or SAT Math subscore 540+ or SAT2016 Math subscore 570+.

CHEM 1144 must be taken concurrently or prior (C- or higher)

**Distribution:** Natural/Physical Sci General Education lecture

**CHEM 1144 FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (1 credit)**

Laboratory explorations of chemical measurements, modeling, reactions and analyses. To be taken with CHEM 1140. (Fall, spring, possibly summer).

**Prerequisite(s):** CHEM 1140 concurrent or prior with C- or better.

**Distribution:** Natural/Physical Sci General Education lab course

**CHEM 1170 GENERAL CHEMISTRY I-II (5 credits)**

Intended for students with significant backgrounds in chemistry, the course is a combination of CHEM 1180 and CHEM 1190 completed in one semester. This course also includes a lab section. During lecture, the following topics will be covered: introductory quantum theory, electronic structures, bonding theory, gas laws, solution properties and reactions, acid-base theory, ionic equilibria, complexation, oxidation-reduction, thermodynamics and kinetics. The laboratory will include the introduction of basic laboratory skills and scientific experimental design.

**Prerequisite(s):** MATH 1330 or equivalent in the last two years (C- or better); OR ACT Math subscore of 26 in the last two years; OR ALEKS/ Accuplacer score of at least 6 in the last two years; AND AP chemistry exam score 3 or greater; OR instructor permission.

**Distribution:** Natural/Physical Sci General Education lecture&lab

**CHEM 1180 GENERAL CHEMISTRY I (3 credits)**

A comprehensive survey of chemical principles; the first course in a two-semester sequence primarily for majors and those in the sciences. It is assumed that students will have a good background in elementary chemical principles. CHEM 1184 normally to be taken concurrently. (Fall, Spring, Summer) Fulfills a University General Education Natural/Physical Science Requirement.

**Prerequisite(s):** Minimum grade of C- in: MATH 1300; 1320; 1330; 1340; 1930; 1940; 1950; OR Math proficiency via ACT Math Subscore 25+; ALEKS/ Accuplacer score 5+; SAT Math Subscore 570+; OR SAT2016 Math Subscore 590+; or CHEM 1140. CHEM 1184 concurrent/prior required.

**Distribution:** Natural/Physical Sci General Education lecture

**CHEM 1184 GENERAL CHEMISTRY I LABORATORY (1 credit)**

A laboratory program designed to enhance laboratory skills and illustrate chemical principles. (Fall, Spring, Summer) Fulfills a University General Education Natural/Physical Science requirement.

**Prerequisite(s):** CHEM 1180 concurrent or prior with a grade of C- or better.

**Distribution:** Natural/Physical Sci General Education lab course

**CHEM 1190 GENERAL CHEMISTRY II (3 credits)**

A study of acid-base theory, ionic equilibria, complexation, oxidation-reduction, thermodynamics and kinetics. CHEM 1194 to be taken concurrently. (Fall, Spring, Summer)

**Prerequisite(s):** Minimum grade of C- in CHEM 1180, CHEM 1184, & MATH 1300; 1320; 1330; 1340; 1930; 1940; 1950 (or approved higher level course) or ACT Math 25+ or SAT Math 570+ or SAT2016 Math 590+ or ALEKS/Accuplacer 5+. Required: CHEM 1194 concurrent

**CHEM 1194 GENERAL CHEMISTRY II LABORATORY (1 credit)**

A laboratory study of quantitative analysis and solution equilibria. Includes statistics applied to quantitative analysis. (Fall, Spring, Summer)

**Prerequisite(s):** CHEM 1180 and 1184 with a grade of C- or better or department recommendation of advanced placement. Prereq or coreq: CHEM 1190 (if prereq must be with a grade of C- or better).

**CHEM 2210 FUNDAMENTALS OF ORGANIC CHEMISTRY (4 credits)**

Chemistry 2210 is a course on basic organic chemistry, a one-semester course designed primarily for students in biology, elementary science education, and allied health fields.

**Prerequisite(s):** CHEM 1140 and CHEM 1144, or CHEM 1190 and CHEM 1194 with a grade of C- or better in each. CHEM 2214 to be taken concurrently.

**CHEM 2214 FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (1 credit)**

Elementary organic chemistry laboratory to be taken concurrently with CHEM 2210. This course is for students in biology (non-premed, non-pre-dental tracks), elementary education and allied health majors.

**Prerequisite(s):** CHEM 1140 and CHEM 1144, or CHEM 1190 and CHEM 1194 with a grade of C- or better in each. CHEM 2210 to be taken concurrently.

**CHEM 2250 ORGANIC CHEMISTRY I (3 credits)**

The fundamental chemistry of carbon compounds. (Fall, Spring, Summer)

**Prerequisite(s):** CHEM 1190 and CHEM 1194 with a grade of C- or better. CHEM 1194 may be taken concurrently.

**CHEM 2260 ORGANIC CHEMISTRY II (3 credits)**

A continuation of the foundational study of the compounds of carbon. (Fall, Spring)

**Prerequisite(s):** CHEM 2250 with a grade of C- or better. Taking CHEM 2274 concurrently is recommended. Students are encouraged to take CHEM 2260 within 12 months of completing CHEM 2250.

**CHEM 2274 ORGANIC CHEMISTRY LABORATORY (2 credits)**

A laboratory course in the skills and techniques of experimentation in organic chemistry. (Fall, Spring, Summer)

**Prerequisite(s):** Minimum grades of C- or better in both CHEM 2250 and CHEM 1194. Students are encouraged to enroll in CHEM 2260 concurrently.

**CHEM 2400 QUANTITATIVE ANALYSIS (3 credits)**

Theory of quantitative analysis applied to gravimetric and volumetric analysis; theory of error and evaluation of analytical data; introduction to instrumental analysis and separation methods. (Fall)

**Prerequisite(s):** CHEM 1190 and CHEM 1194 with a grade of C- or better or equivalent. CHEM 2404 to be taken concurrently.

**CHEM 2404 QUANTITATIVE ANALYSIS LAB (1 credit)**

Laboratory application of principles of quantitative analysis and experience with sample preparations, titrations, and instrumental methods of analysis. Use of reaction chemistry, separations, and spectrophotometry in determinations. Introduction to quality control. (Fall)

**Prerequisite(s):** CHEM 1190 and CHEM 1194 with a grade of C- or better or equivalent. CHEM 2400 to be taken concurrently.

**CHEM 2500 INTRODUCTION TO INORGANIC CHEMISTRY (3 credits)**

A survey of the inorganic chemistry of metallic and nonmetallic species, including atomic, molecular and crystal structures, composition, properties and reactivities. (Spring)

**Prerequisite(s):** CHEM1190 with a grade of C- or better.

**CHEM 2700 CHEMISTRY LEARNING ASSISTANTSHIP (0-1 credits)**

This course will provide students with the opportunity to apply knowledge in a particular course while gaining leadership and communication skills in the classroom. As a Learning Assistant (LA), students will help teach and explain chemistry concepts and chemistry problems through small group breakout sessions during lecture and/or by holding weekly study sessions. Students may also monitor attendance and aid in the communication of students whose attendance is decreasing. Any chemistry course can have an LA, but typically LAs will be offered for General Chemistry and Organic Chemistry courses.

**Prerequisite(s):** Cumulative GPA of 3.0 or above AND a grade of B or above in the specific chemistry course for which students will be a Learning Assistant AND permission from the instructor. Not open to non-degree graduate students.

**CHEM 2910 APPLIED TOPICS IN CHEMISTRY (1 credit)**

More thorough examination of a chemistry topic than in the regular curriculum. Content (e.g., polymers, forensics, brewing and cooking, chemical industry, historical chemistry, art and chemistry, glassblowing) will vary with offering.

**Prerequisite(s):** Completion of 4 credit hours of university chemistry with grade(s) of C+ or better, or 8 credit hours of chemistry with grades of C or better.

**CHEM 2920 APPLIED TOPICS IN CHEMISTRY (2 credits)**

More thorough examination of a chemistry topic than in the regular curriculum. Content (e.g., polymers, forensics, brewing and cooking, chemical industry, historical chemistry, art and chemistry, glassblowing) will vary with offering.

**Prerequisite(s):** Completion of 4 credit hours of university chemistry with grade(s) of C+ or better, or 8 credit hours of chemistry with grades of C or better.



**CHEM 2930 APPLIED TOPICS IN CHEMISTRY (3 credits)**

More thorough examination of a chemistry topic than in the regular curriculum. Content (e.g. polymers, forensics, brewing and cooking, chemical industry, historical chemistry, art and chemistry, glassblowing) will vary with offering.

**Prerequisite(s):** Completion 4 credit hours of university chemistry with grade(s) of C+ or better, or 8 CH of chemistry with grades of C or better.

**CHEM 2950 INTRODUCTION TO RESEARCH IN CHEMISTRY (1 credit)**

This course is intended to give students, possessing at least a high school background in chemistry, the opportunity to work with faculty and/or advanced students on an established research project. The creativity and communication expectations of these students will be less than for students enrolled in the 4000 level research courses. Guided laboratory/library work on an established research project.

**Prerequisite(s):** Permission of instructor. Not open to non-degree graduate students.

**CHEM 3030 ENVIRONMENTAL CHEMISTRY (3 credits)**

This course connects fundamental chemical principles to processes observed in the environment. The environmental processes studied may or may not be anthropogenic in nature and will include every environmental domain (air, water, soil/minerals/rocks) and interactions between domains.

**Prerequisite(s):** CHEM 2400 and CHEM 2404, or consent of the instructor

**CHEM 3210 INTRODUCTION TO MOLECULAR MODELING (3 credits)**

The course covers the advantages and limitations of current modeling systems, the criteria for choosing the appropriate modeling system to best solve a given problem and the computer resources needed to conduct the modeling experiments. Following an introduction to the theory behind a variety of modeling systems, students model organic and bioorganic compounds in projects designed to mimic real world applications. (Alternate Spring semesters). (Cross-listed with CHEM 8215).

**Prerequisite(s):** CHEM 2260 and CHEM 2274 with a grade of C- or better.

**CHEM 3350 PHYSICAL CHEMISTRY I (3 credits)**

A presentation of selected topics from the laws of thermodynamics, chemical and physical equilibria, phase diagrams, thermodynamics of solutions, electrochemistry and kinetics. (Fall) (Cross-listed with CHEM 8355).

**Prerequisite(s):** CHEM 2260, CHEM 2274, CHEM 2400, CHEM 2404, PHYS 1120 or PHYS 2120; MATH 1960. (Chemistry courses must be with a grade of C or better). Concurrent enrollment in CHEM 3354.

**CHEM 3354 PHYSICAL CHEMISTRY I LABORATORY (1 credit)**

Physical chemistry laboratory covering topics in thermodynamics, kinetics and electrochemistry, to be taken concurrently with CHEM 3350/8355.

Instruction and practice in scientific writing is also an emphasis of the course. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. Offered in Fall. (Cross-listed with CHEM 8359)

**Prerequisite(s):** CHEM 2404, CHEM 2274; Coreq: CHEM 3350.

**Distribution:** Writing in the Discipline Sequenced Course

**CHEM 3360 PHYSICAL CHEMISTRY II (3 credits)**

This course provides students with an overview of quantum mechanics and its application to chemistry, particularly through the lens of atomic and molecular spectroscopy and computational modeling. (Cross-listed with CHEM 8365).

**Prerequisite(s):** CHEM 3350 and CHEM 3354 with a grade of C- or better.

**CHEM 3364 PHYSICAL CHEMISTRY II LABORATORY (1 credit)**

Physical chemistry laboratory covering topics in quantum mechanics, computational chemistry, spectroscopy, and kinetics, to be taken concurrently with CHEM 3360. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. Offered in Spring. (Cross-listed with CHEM 8369).

**Prerequisite(s):** CHEM 3350 and 3354 with a grade of C- or better, to be taken concurrently with CHEM 3360.

**Distribution:** Writing in the Discipline Sequenced Course

**CHEM 3424 SPECTROMETRIC CHARACTERIZATIONS (1 credit)**

A laboratory course intended to further develop the ability to determine chemical structure from focused spectrometric data especially IR, MS, 1D and 2D (proton and carbon) NMR. Lab time focuses on the spectrochemical data collection and interpretation. (Cross-listed with CHEM 8425).

**Prerequisite(s):** CHEM 2260, CHEM 2274, CHEM 2400 and CHEM 2404 with a grade of C or better.

**CHEM 3514 INORGANIC PREPARATIONS (1 credit)**

Laboratory preparation and characterization of representative types of inorganic compounds by various standard and special techniques. (Spring)

**Prerequisite(s):** CHEM 2274, CHEM 2400, CHEM 2404, CHEM 2500 with a grade of C- or better.

**CHEM 3610 PRINCIPLES OF BIOCHEMISTRY FOR THE HEALTH SCIENCES (3 credits)**

This course covers the introduction of biochemistry, biomolecules, and metabolism. It is primarily intended for students entering allied health fields.

**Prerequisite(s):** CHEM 2210 or CHEM 2260 with a C- or better. Not open to non-degree graduate students.

**CHEM 3650 FUNDAMENTALS OF BIOCHEMISTRY (3 credits)**

A survey of biochemistry emphasizing: cell structure, energy, and water; amino acid and protein structure/function, and enzymes; carbohydrates and carbohydrate metabolism (glycolysis, glycogen metabolism); aerobic metabolism (citric acid cycle and oxidative phosphorylation); lipids, membranes, transport, cholesterol, and lipid metabolism; and nucleic acids. (Typically offered Fall and Spring)

**Prerequisite(s):** CHEM 2210 and CHEM 2214 or CHEM 2260 and CHEM 2274 with a grade of C- or better. Other comparable courses taken at accredited colleges or universities are acceptable. CHEM 3654 must be taken concurrently.

**CHEM 3654 FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (1 credit)**

A laboratory course to help integrate the concepts learned in the fundamentals of biochemistry lecture with the development of biochemical laboratory skills including data analysis. (Typically offered Fall and Spring)

**Prerequisite(s):** CHEM 2210 and CHEM 2214 or CHEM 2260 and CHEM 2274 with a grade of C- or better. Other comparable courses taken at accredited colleges or universities are acceptable. CHEM 3650 must be taken concurrently.

**CHEM 3710 ESSENTIALS OF MEDICINAL CHEMISTRY (3 credits)**

This course is an introduction to human drug discovery, mechanism of action, metabolism, and drug-drug interaction, while demonstrating the interdisciplinary nature of medicinal chemistry. An emphasis is placed on drug design, drug structure, and the relationship of structure to drug action and metabolism. (Typically offered in Spring)

**Prerequisite(s):** ENGL 1160 and CHEM 2260 with a grade of C- or better, or permission of instructor.

**CHEM 3720 CHEMISTRY TEACHING STRATEGIES (3 credits)**

A course exploring the pedagogical problems that chemistry teachers face and potential solutions to these problems. The purpose of the course is two-fold. To help with the professional development of chemistry teachers within the context of how people learn. To help students interested in chemical education research develop educational research ideas within the context of how people learn.

**Prerequisite(s):** CHEM 2250 or CHEM 2400 or by instructor consent.

**CHEM 4230 ADVANCED ORGANIC CHEMISTRY - SYNTHESIS (3 credits)**

An advanced lecture course in modern theories and organic reactions with application to synthesis. (Alternate Fall semesters) (Cross-listed with CHEM 8236).

**Prerequisite(s):** CHEM 2260 with a grade of C- or better.



**CHEM 4240 ADVANCED ORGANIC CHEMISTRY - MECHANISM (3 credits)**

An advanced lecture course in organic chemical reactions. (Cross-listed with CHEM 8246).

**Prerequisite(s):** CHEM 2260 and CHEM 2400 with a C- or better

**CHEM 4244 ADVANCED ORGANIC CHEMISTRY-MOLECULAR MODELING LABORATORY (1 credit)**

The use of molecular modeling software as means to predict structure, relative stabilities and reaction thermodynamics are covered in a hands-on environment. The course will survey various modeling methods and show its relevance to organic reactions and mechanisms therein. Students will learn how to use commercial software to obtain/supplement experimental data in a manner suitable for peer-review publication. (Cross-listed with CHEM 8276).

**Prerequisite(s):** CHEM 2260 and CHEM 2400 with a C- or better

**CHEM 4250 ADVANCED ORGANIC CHEMISTRY: MECHANISMS AND MODELING (4 credits)**

Presentation of advanced topics in organic chemistry focused on structure, bonding and reaction mechanisms. The use of molecular modeling software as means to predict structure, relative stabilities and reaction thermodynamics are covered in a hands-on environment. The course will survey various modeling methods and show its relevance to molecular orbital theory. The basic methodologies used to explore organic mechanisms are presented and then used to study mechanistic details of various reaction types. Students cannot count both Chem 4250 and Chem 4240 toward their degree. (Cross-listed with CHEM 8256).

**Prerequisite(s):** CHEM 2260 and CHEM 2274 with a C- or better

**CHEM 4310 POLYMER CHEMISTRY (3 credits)**

An introduction to the chemical and physical properties of polymers. Emphasis will be on physical properties and structure/property relationships. Topics will include kinetics and synthesis. Students will gain an understanding of the characteristics of polymers and their applications.

**Prerequisite(s):** CHEM 2260 and CHEM 3350, each with a grade of C- or better, or instructor permission. Not open to non-degree graduate students.

**CHEM 4320 NUCLEAR CHEMISTRY (3 credits)**

An introduction to nuclear chemistry. Topics will include nuclear structure and changes, applications of nuclear radioactivity including radiometric dating, nuclear power, nuclear weapons, chemical properties of radioactive elements as well as applications in the chemical laboratory, industrial and medical applications.

**Prerequisite(s):** CHEM 3360 (or CHEM 2500, PHYS 1110 and MATH 1960 as a group). Any of the classes can be taken concurrently.

**CHEM 4400 INSTRUMENTAL ANALYSIS (3 credits)**

Study of instrumentation for use in chemical analysis and chemistry research. Advanced instrumental methods and data analysis techniques are included. (Cross-listed with CHEM 8406).

**Prerequisite(s):** CHEM 3350 and CHEM 3354 both with a C- or better; or CHEM 3360 and CHEM 3364 both with a C- or better; or instructor permission. Concurrent enrollment in CHEM 4404.

**CHEM 4404 INSTRUMENTAL ANALYSIS LABORATORY (1 credit)**

Use of instrumentation in quantitative and trace analysis. Advanced instrumental methods and electronics for instrumentation are included. (Spring) (Cross-listed with CHEM 8409).

**Prerequisite(s):** CHEM 3360, CHEM 3364, CHEM 3414 with a grade of C or better. Concurrent enrollment in CHEM 4400.

**CHEM 4500 ADVANCED INORGANIC CHEMISTRY (3 credits)**

The application of bonding models for understanding of the composition, structure, and reactions of inorganic molecules, including organometallic and bioinorganic complexes. (Cross-listed with CHEM 8506).

**Prerequisite(s):** CHEM 2500 and CHEM 3350 with a grade of C- or better. CHEM 3350 may be taken concurrently.

**CHEM 4510 SOLID STATE INORGANIC CHEMISTRY (3 credits)**

A study of the structural and electronic basis of materials properties in the solid state. Properties examined include electrical conductivity, ferromagnetism, ferroelectricity, and superconductivity. Some experimental work will be conducted.

**Prerequisite(s):** CHEM 2500 and CHEM 3350 with a grade of C- or better; or permission of instructor.

**CHEM 4540 GEOCHEMISTRY (3 credits)**

This course will cover the application of chemical principles to geologic systems. Specific topics covered will include the origin of elements and their distribution in the earth, geochronology, stable isotope systems, aqueous geochemistry and crystal chemistry. These topics will be integrated to the study of soils, igneous, metamorphic and sedimentary rocks and ore deposits. (Every third semester). (Cross-listed with GEOL 4540).

**Prerequisite(s):** GEOL 1170, MATH 1950, CHEM 1190 and GEOL 2750 or CHEM 2500 (chemistry courses must have a grade of C or better)

**CHEM 4610 BIOCHEMISTRY OF METABOLISM (4 credits)**

The course covers the structure-function relationships of proteins, carbohydrates, lipids and nucleotides, with an emphasis on the biochemistry of metabolism and molecules of metabolism. It is primarily intended to prepare students for health-related professional schools. (Spring)

**Prerequisite(s):** CHEM 2260 and CHEM 2274 with a grade of C- or better.

**CHEM 4650 BIOCHEMISTRY I (3 credits)**

A comprehensive introduction to biochemistry emphasizing: structure-function relationships for proteins, carbohydrates, lipids, and nucleic acids; protein purification; enzyme kinetics and mechanisms; membranes and membrane transport; carbohydrate metabolism including glycolysis, the citric acid cycle and oxidative phosphorylation; and important applications of thermodynamics and the properties of water to living systems. (Fall) (Cross-listed with BIOL 4650, BIOL 8656, CHEM 8656).

**Prerequisite(s):** CHEM 2260 and CHEM 2274; and either CHEM 2400 or BIOL 3020, all with a C- or better. Other comparable courses taken at accredited colleges or universities are acceptable. CHEM 4654 must be taken concurrently.

**CHEM 4654 BIOCHEMISTRY I LABORATORY (1 credit)**

A laboratory course to help integrate the concepts learned in biochemistry lecture with the development of biochemical laboratory skills including experimental design, data analysis, presentation of results and communication of scientific information, with a focus on formal instruction in journal-style writing and notebook skills. There is an emphasis on protein properties, including enzyme activity. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. (Fall) (Cross-listed with BIOL 4654, BIOL 8654, CHEM 8654).

**Prerequisite(s):** CHEM 2260 and CHEM 2274; and either CHEM 2400 or BIOL 3020, all with a C- or better. BIOL 4650 must be taken concurrently with BIOL 4654. CHEM 4650 must be taken concurrently with CHEM 4654.

**Distribution:** Writing in the Discipline Sequenced Course

**CHEM 4660 BIOCHEMISTRY II (3 credits)**

A continuation of the study of the structure and function of biomolecules and biochemical reactions with an emphasis on metabolism of carbohydrates, lipids, amino acids and nucleotides, and the chemistry of signal transduction and genetic information transfer. (Spring) (Cross-listed with BIOL 4660, BIOL 8666, CHEM 8666).

**Prerequisite(s):** CHEM 4650 and CHEM 4654 or BIOL 4650 and BIOL 4654. CHEM 4664 must be taken concurrently (Chemistry courses must have a grade of C- or better)

**CHEM 4664 BIOCHEMISTRY II LABORATORY (1 credit)**

A laboratory course to help integrate the concepts learned in Biochemistry II lecture with the development of biochemical laboratory skills, to gain practical experience in experimental design, data analysis, presentation of results and communication of scientific information, with a focus on formal instruction in journal-style writing and notebook skills. There is an emphasis on nucleic acid properties. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. (Spring) (Cross-listed with BIOL 4664, BIOL 8664, CHEM 8664).

**Prerequisite(s):** CHEM 4650 and CHEM 4654 or BIOL 4650 and BIOL 4654 with a C- or better. BIOL 4660 must be taken concurrently with BIOL 4664. CHEM 4660 must be taken concurrently with CHEM 4664.

**Distribution:** Writing in the Discipline Sequenced Course

**CHEM 4670 PROTEIN PURIFICATION AND CHARACTERIZATION (2 credits)**

This course is a study of protein biochemistry, protein purification techniques, and characterization strategies with an emphasis on chromatography and crystallography. The course has a significant laboratory component. (Cross-listed with CHEM 8676).

**CHEM 4810 CHEMISTRY INTERNSHIP (1-6 credits)**

Application of chemical skills in a non-academic laboratory or workplace through part-time employment or contracted work.

**Prerequisite(s):** CHEM 2260, CHEM 2274, CHEM 2400, CHEM 2404 with a grade of C- or better and permission of department chair.

**CHEM 4900 SENIOR ASSESSMENT IN CHEMISTRY (0 credits)**

The zero-credit hour course is used by the Chemistry Department to assess the chemical understanding and knowledge of graduating seniors. Students are required to take the assessment in the semester in which they intend to graduate. The assessment is scored for purposes of departmental program assessment but not graded.

**Prerequisite(s):** Student must register for the course in the semester in which they intend to graduate. Not open to non-degree graduate students.

**CHEM 4920 SEMINAR IN CHEMISTRY (1 credit)**

The purpose of this course is to give chemistry students the opportunity to learn more about research design and the research being done both within the chemistry department at UNO and at other universities across the country. The course will also help chemistry students learn about research opportunities in graduate schools and industry by interacting with speakers from various sub-disciplines of chemistry.

**Prerequisite(s):** No specific registration requirements. Generally, sophomore standing.

**CHEM 4930 SPECIAL TOPICS IN CHEMISTRY (1-3 credits)**

Selected special topics in chemistry. (Cross-listed with CHEM 8936).

**Prerequisite(s):** CHEM 2260, CHEM 2400 with a grade of C or better.

Some topics will require more advanced prerequisites and will be accepted for advanced course work in chemistry.

**CHEM 4950 CHEMISTRY PROJECTS (1 credit)**

Initiation of an independent student research project, and communication of the results.

**Prerequisite(s):** Depends on the project. Generally, junior standing.

**CHEM 4960 CHEMISTRY PROBLEMS (1-3 credits)**

Independent student research and communication of results. (Cross-listed with CHEM 8966).

**Prerequisite(s):** CHEM 4950 with a grade of C or better and permission of instructor.

## Chinese (CHIN)

### Chinese Undergraduate Courses

**CHIN 1110 ELEMENTARY MANDARIN CHINESE I (5 credits)**

Elementary Mandarin Chinese I emphasizes the mastery of all four language skills: speaking, listening, reading, and writing, as well as introduces cultural issues from the Chinese speaking world.

**CHIN 1120 ELEMENTARY MANDARIN CHINESE II (5 credits)**

Elementary Mandarin Chinese II emphasizes the mastery of all four language skills: speaking, listening, reading, and writing, and also introduces cultural issues from the Chinese speaking world.

**Prerequisite(s):** CHIN 1110 or CHIN 1000.

## Civil Engineering (CIVE)

### Civil Engineering Undergraduate Courses

**CIVE 101 INTRODUCTION TO CIVIL ENGINEERING (3 credits)**

Introduction to engineering design process through hands-on projects supported by instruction of underlying engineering science and fundamentals, model development, and the required tools. Exploration of civil engineering disciplines and introduction to civil engineering profession with focus on ethics and professional skills.

**CIVE 102 GEOMATICS FOR CIVIL ENGINEERING (3 credits)**

Introduction to the theory and application of measurements and geospatial data for civil engineering. This includes error theory, measurements of elevation, distance, direction, and location using optical, mechanical, electronic, and global navigation satellite systems, and applications in geographic information systems (GIS). Project based.

**Prerequisite(s):** CIVE 101 or CIVE 131

**CIVE 112 OVERVIEW OF CIVIL ENGINEERING (1 credit)**

Overview of civil engineering as a career by use of case studies; alternate approaches to engineering designs illustrated by use of engineering principles.

**Prerequisite(s):** Prerequisites: Permission of the instructor

**CIVE 131 CIVIL ENGINEERING GRAPHICS (2 credits)**

Use of computer-aided design software to communicate engineering ideas. Specifications, dimensioning, tolerancing, 2- and 3-D model development, topographic mapping, and process layout with environmental, bioprocess, and biomedical emphases.

**Prerequisite(s):** Permission of the instructor

**CIVE 201 CIVIL ENGINEERING ANALYSIS I (2 credits)**

Incorporating programming logic into spreadsheet solutions in the context of authentic civil engineering projects; emphasis on integrating professional skills, data analysis and management, and technical skills. Project based.

**Prerequisite(s):** CIST 1600 (grade of C or better)

**CIVE 202 CIVIL ENGINEERING ANALYSIS II (2 credits)**

Expanding programming logic to data analysis & visualization, solution of linear systems of equations, and ordinary differential equations.

Control of sensors and visualization of scientific data. Use of authentic civil engineering projects linking engineering mechanics and materials of construction. Emphasis on integrating professional skills, data analysis, and technical skills. Project based.

**Prerequisite(s):** Prerequisite: CIST 1600 (grade of C or better)

**CIVE 301 CIVIL ENGINEERING SYNTHESIS I (1 credit)**

Explores the co-disciplinary connections in civil engineering through authentic engineering projects; focus on synergies among fluid dynamics, transportation, and structures; emphasis on integrating professional skills, data analysis, and technical skills. Project based.

**Prerequisite(s):** Corequisite: CIVE 310 or CIVE 361 or CIVE 341

**CIVE 302 CIVIL ENGINEERING SYNTHESIS II (1 credit)**

Explores the co-disciplinary connections in civil engineering through authentic engineering projects; focus on synergies among geotechnical engineering, water resources, and environmental engineering; emphasis on integrating professional skills, data analysis, and technical skills. Project based.

**Prerequisite(s):** Corequisite: CIVE 331 or CIVE 351 or CIVE 321

**CIVE 310 FLUID MECHANICS (3 credits)**

Fluid statics, equations of continuity, momentum, and energy; dimensional analysis and dynamic similitude. Applications to: flow meters; fluid pumps and turbines; viscous flow and lubrication; flow in closed conduits and open channels. Two-dimensional potential flow.

**Prerequisite(s):** MATH 2350 (grade of C or better) and MECH 223 (grade of C or better)

**CIVE 310L HYDRAULICS LAB (1 credit)**

Hydraulic experiments and demonstrations. Velocity, pressure and flow measurements; pipe flow, open channel flow; hydraulic structures and machinery, hydrologic and sediment measurement and student projects.

**Prerequisite(s):** CIVE 310 pre-requisite/co-requisite

**CIVE 321 PRINCIPLES OF ENVIRONMENTAL ENGINEERING (3 credits)**

Introduction to the principles of environmental engineering, including water quality, atmospheric quality, pollution prevention, and solid and hazardous wastes engineering. Design of water, air, and waste management systems.

**Prerequisite(s):** MATH 1960 (grade of C or better), and CHEM 1180 (grade of C or better) and CHEM 1184, or CHEM 1190 (grade of C or better) and CHEM 1194

**CIVE 321L ENVIRONMENTAL ENGINEERING LABORATORY (1 credit)**

Environmental engineering experiments, demonstrations, field trips, and projects. Experiments include the measurement and determination of environmental quality parameters such as solids, dissolved oxygen, biochemical and chemical oxygen demand, and alkalinity.

**Prerequisite(s):** Pre or Coreq: CIVE 321.

**CIVE 331 INTRODUCTION TO GEOTECHNICAL ENGINEERING (4 credits)**

Soil composition, structure and phase relationships; soil classification. Principles of effective stress; loading induced subsurface stresses; load history; deformation and failure of soils. Elastic and limit analysis with applications to design for bearing capacity, settlement, retaining walls and slope stability. Steady state seepage.

**Prerequisite(s):** MECH 325 (grade of C or better); Pre or Coreq: CIVE 310.

**CIVE 341 STRUCTURAL ANALYSIS FUNDAMENTALS (3 credits)**

Introduction to the analysis of structural systems. Analyses of determinate and indeterminate trusses, beams, and frames.

**Prerequisite(s):** MECH 325 (C or better)

**CIVE 342 STRUCTURAL DESIGN FUNDAMENTALS (1 credit)**

Introduction to structural engineering design philosophy, steel and concrete design criteria, and procedures for trusses, simple beams, continuous beams, and frames. Introduction to structural experiments and software used in structural analysis and design.

**Prerequisite(s):** MECH 325 (C or better)

**CIVE 351 INTRODUCTION TO WATER RESOURCES ENGINEERING (3 credits)**

Introduction to water resources engineering design and planning, surface hydrology, groundwater hydraulics, reservoirs and other control structures. Introduction to field measurement and computational methods in water resources.

**Prerequisite(s):** CIVE 310

**CIVE 361 PRINCIPLES OF TRANSPORTATION ENGINEERING (3 credits)**

Introduction to the principles of transportation engineering including operator, user and vehicle characteristics, transportation facility design, traffic operations and control, and transportation planning.

**Prerequisite(s):** MECH 223 (C or better)

**CIVE 371 MATERIALS OF CONSTRUCTION (3 credits)**

Introduction to the behavior, testing and design of soil, portland cement concrete, steel, wood and composites. Experiments covering the concepts of stress and strain under axial, torsional, shear and flexural loading conditions. Common ASTM laboratory test procedures and specifications, field quality control tests and statistical applications.

**Prerequisite(s):** Prerequisite: MECH 223 (grade of C or better); Corequisite: MECH 325

**CIVE 385 PROFESSIONAL PRACTICE AND MANAGEMENT IN CIVIL ENGINEERING (3 credits)**

Basic elements of civil engineering practice. Roles of all participants in the process-owners, designers, architects, contractors, and suppliers. Basic concepts in business management, public policy, leadership, and professional licensure. Professional relations, civic responsibilities, and ethical obligations for engineering practice. Project management, contracts, allocation of resources, project estimating, planning, and controls.

**Prerequisite(s):** Junior standing and CIVE major. Not open to non-degree graduate students.

**CIVE 395 CIVIL & ENVIRONMENTAL ENGINEERING INTERNSHIP EDUCATIONAL EXPERIENCE (1 credit)**

Practical on-the-job experience to apply classroom theory in the civil & environmental engineering field.

**Prerequisite(s):** CIVE or ENVE major and permission of the Civil & Environmental Engineering curriculum chair

**CIVE 401 CIVIL ENGINEERING DESIGN I (3 credits)**

The first of two courses in the capstone sequence. Practical application of the engineering design process in a team project focused on an authentic and comprehensive civil engineering design project.

**Prerequisite(s):** CIVE 321, CIVE 331, CIVE 341, CIVE 351, and CIVE 361

**CIVE 402 CIVIL ENGINEERING DESIGN II (3 credits)**

The second of two courses in the capstone sequence. Practical application of the engineering design process in a team project focused on an authentic and comprehensive civil engineering design project.

**Prerequisite(s):** CIVE 401

**CIVE 410 SUSTAINABLE INFRASTRUCTURE (1 credit)**

Introduction to infrastructure sustainability. Overview of the Envision framework for evaluating infrastructure sustainability. Use of the Envision framework for evaluation of real-world projects to improve their sustainability.

**Prerequisite(s):** Sophomore or higher standing

**CIVE 419 FLOW SYSTEMS DESIGN (3 credits)**

Application of hydraulic principles to the design of water distribution systems, wastewater and stormwater collection systems, channelized flow systems and treatment facilities. (Cross-listed with CIVE 819)

**Prerequisite(s):** CIVE 321; Corequisite: CIVE 351

**CIVE 420 ENVIRONMENTAL ENGINEERING PROCESS DESIGN (3 credits)**

Design of unit operations and processes associated with drinking water and wastewater treatment facilities, and other environmental treatment systems.

**Prerequisite(s):** CIVE 321 and CIVE 310

**CIVE 422 POLLUTION PREVENTION: PRINCIPLES AND PRACTICES (3 credits)**

Introduction to pollution prevention (P2) and waste minimization methods. Practical applications to small businesses and industries. Legislative and historical development of P2 systems analysis, waste estimation, P2 methods, P2 economics, and sources of P2 information. (Cross-listed with CIVE 822).

**Prerequisite(s):** Permission

**CIVE 424 SOLID WASTE MANAGEMENT ENGINEERING (3 credits)**

Planning design and operation of solid and waste collection processing, treatment, and disposal systems including materials, resources and energy recovery systems. (Cross-listed with CIVE 824).

**Prerequisite(s):** CIVE 321

**CIVE 425 DESIGN OF WATER TREATMENT FACILITIES (3 credits)**

Analyses of water supplies and design of water treatment and distribution systems. (Cross-listed with CIVE 825).

**Prerequisite(s):** Parallel with CIVE 420

**CIVE 426 DESIGN OF WASTEWATER TREATMENT AND DISPOSAL FACILITIES (3 credits)**

Analysis of systems for wastewater treatment and disposal. (Cross-listed with CIVE 826).

**Prerequisite(s):** CIVE 420

**CIVE 430 FUNDAMENTALS OF WATER QUALITY MODELING (3 credits)**

Comprehensive study of water quality and the effects of various water pollutants on the aquatic environment; modeling of water quality variables. (Cross-listed with CIVE 830).

**Prerequisite(s):** CIVE 321

**CIVE 436 FOUNDATION ENGINEERING (3 credits)**

Subsoil exploration and interpretation; selection of foundation systems; determination of allowable bearing capacity and settlement; design of deep foundations; pile driving analysis; control of groundwater.

**Prerequisite(s):** CIVE 331

**CIVE 440 REINFORCED CONCRETE DESIGN I (3 credits)**

Introduction to the design concepts of reinforced concrete building components. The design of flexural and compression members, simple walls, foundations, and floor systems using the latest American Concrete Institute (ACI) design requirements.

**Prerequisite(s):** CIVE 341

**CIVE 441 STEEL DESIGN I (3 credits)**

Introduction to the design concepts for structural steel building components. Design of tension members, bolted and welded connections, column members, and beam members. Limit states design concepts used throughout, and emphasis on behavior of members and code design procedures.

**Prerequisite(s):** CIVE 341

**CIVE 443 ADVANCED STRUCTURAL ANALYSIS (3 credits)**

Matrix analysis methods and computer solutions for indeterminate structures. Additional topics: static condensation, shear deformations, and non-prismatic members in matrix-based analyses, moment distribution method, load cases and load combinations for buildings and bridges, and influence lines and analysis for moving loads. (Cross-listed with CIVE 843)

**Prerequisite(s):** CIVE 341. Not open to non-degree graduate students.

**CIVE 444 STRUCTURAL DESIGN AND PLANNING (3 credits)**

Principles of design of steel and reinforced concrete structural building systems, planning of building vertical and horizontal load resisting systems, and bridge systems. Several design projects involve indeterminate analysis and design concepts for both steel and reinforced concrete. (Cross-listed with CIVE 844).

**Prerequisite(s):** CIVE 440 and CIVE 441

**CIVE 446 STEEL DESIGN II (3 credits)**

A continuation of the topics covered in CIVE 441. The principles and procedures used in design of steel buildings, design of plate girders, design and analysis of building systems, design and analysis of composite steel-concrete building systems, innovative building systems, and introduction to seismic design of steel buildings. Plate buckling, beam, column, and beam-column design, and frame stability. Introduction to connection design.

**Prerequisite(s):** CIVE 441

**CIVE 447 REINFORCED CONCRETE II (3 credits)**

Shear friction theory, strut-and-tie modeling, anchorage, deflection, slender and bi-axially loaded members, torsion, two-way action and punching shear, and footing design. Excel spreadsheets are developed and used for various design tasks. (Continuation of topics covered in CIVE 440.) (Cross-listed with CIVE 847).

**Prerequisite(s):** CIVE 440

**CIVE 448 RELIABILITY OF STRUCTURES (3 credits)**

Fundamental concepts related to structural reliability, safety measures, load models, resistance models, system reliability, optimum safety levels, and optimization of design codes.

**Prerequisite(s):** CIVE 341.

**CIVE 452 WATER RESOURCES DEVELOPMENT (3 credits)**

Theory and application of systems engineering with emphasis on optimization and simulation techniques for evaluating alternatives in water resources developments related to water supply, flood control, hydroelectric power, drainage, water quality, water distribution, irrigation and water measurement. (Cross-listed with CIVE 852).

**Prerequisite(s):** CIVE 351

**CIVE 454 HYDRAULIC ENGINEERING (3 credits)**

Fundamentals of hydraulics with applications of mechanics of solids, mechanics of fluids, and engineering economics to the design of hydraulic structures. Continuity, momentum, and energy principles are applied to special problems from various branches of hydraulic engineering. (Cross-listed with CIVE 854).

**Prerequisite(s):** CIVE 351

**CIVE 455 NONPOINT SOURCE POLLUTION CONTROL ENGINEERING (3 credits)**

Identification, characterization, and assessment of nonpoint source pollutants; transport mechanisms and remediation technologies; design methodologies and case studies. (Cross-listed with CIVE 855).

**Prerequisite(s):** CIVE 326 and CIVE 352

**CIVE 456 SURFACE WATER HYDROLOGY (3 credits)**

Stochastic analysis of hydrological data and processes including rainfall, runoff, infiltration, temperature, solar radiation, wind, and non-point pollution. Space-time hydrologic modeling with emphasis on the application of techniques in the design of engineering projects. (Cross-listed with CIVE 856).

**Prerequisite(s):** CIVE 351

**CIVE 458 GROUNDWATER ENGINEERING (3 credits)**

Application of engineering principles to the movement of groundwater. Analysis and design of wells, well fields, and artificial recharge. Analysis of pollutant movement. (Cross-listed with CIVE 858).

**Prerequisite(s):** CIVE 351

**CIVE 461 URBAN TRANSPORTATION PLANNING (3 credits)**

Development of urban transportation planning objectives and goals. Data collection procedures, land use and travel forecasting techniques, trip generation, trip distribution, modal choice analysis, and traffic assignment. Site development and traffic impact analysis. (Cross-listed with CIVE 861).

**Prerequisite(s):** CIVE 361

**CIVE 462 HIGHWAY DESIGN (3 credits)**

Design of roadways, intersections, interchanges, parking facilities, and land development site access and circulation. Emphasis on design projects. (Cross-listed with CIVE862)

**Prerequisite(s):** CIVE361

**CIVE 463 TRAFFIC ENGINEERING (3 credits)**

Design of signalized intersections, arterial street and network signal systems, and freeway control systems. Emphasis on design projects. (Cross-listed with CIVE863)

**Prerequisite(s):** CIVE361

**CIVE 468 AIRPORT PLANNING AND DESIGN (3 credits)**

Planning and design of general aviation and air-carrier airports. Land-side components include vehicle ground access systems, vehicle circulation parking and terminal buildings. Air-side components include aircraft apron-gate area, taxi-way system, runway system and air traffic control facilities and airspace. Emphasis on design projects. (Cross-listed with CIVE868)

**Prerequisite(s):** CIVE 361



**CIVE 471 BITUMINOUS MATERIALS AND MIXTURES (3 credits)**

Understanding of the physical, chemical, geometrical, and mechanical characteristics and practical applications of bituminous materials and mixtures. Fundamental mechanics for elastic and inelastic materials and basic theories associated with mechanical data analyses and designs. Recent advances and significant research outcomes for further discussions. Applications of theories to laboratory and field testing. (Cross-listed with CIVE 871)

**Prerequisite(s):** CIVE 371. Not open to non-degree graduate students.

**CIVE 472 PAVEMENT DESIGN AND EVALUATION (3 credits)**

Thickness design of flexible and rigid pavement systems for highways and airports; design of paving materials; evaluation and strengthening of existing pavements. (Cross-listed with CIVE 872).

**Prerequisite(s):** CIVE 334

**CIVE 475 WATER QUALITY STRATEGY (3 credits)**

Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems for selecting strategies; and for evaluating present strategies.

**Prerequisite(s):** Senior standing

**CIVE 481 COMPUTATIONAL PROBLEM SOLVING IN CIVIL ENGINEERING (3 credits)**

Introduction of numerical methods to solve problems in civil engineering, including finding roots of equations, solving linear algebra equations, optimization, curve fitting, numerical differentiation and integration, and finite difference method. Computational methods in numerical integration, matrix operations and ordinary differential equations as they apply to civil engineering problems. (Cross-listed with CIVE 881)

**Prerequisite(s):** MATH 2350; CIST 1600. Not open to non-degree graduate students.

**CIVE 484 RELIABILITY OF STRUCTURES (3 credits)**

Fundamental concepts related to structural reliability, safety measures, load models, resistance models, system reliability, optimum safety levels, and optimization of design codes. (Cross-listed with CIVE 848).

**Prerequisite(s):** CIVE 341

**CIVE 489 SENIOR DESIGN PROJECT (3 credits)**

Requires the formulation and completion of a civil engineering design project. Course provides senior civil engineering students with the opportunity to apply engineering concepts and principles to a comprehensive design project of multiple sub-disciplinary nature. The principal objectives are for students to develop an understanding of the entire life-cycle of civil engineering projects with emphasis on the development of a unified and sustainable design that addresses the client's needs; project team work; strong engineer-client relationships; and effective project communications.

**Prerequisite(s):** Senior standing and CIVE 385

**CIVE 491 SPECIAL TOPICS IN CIVIL ENGINEERING (1-6 credits)**

Special topics in emerging areas of civil engineering which may not be covered in other courses in the civil engineering curriculum.

**CIVE 494 INDEPENDENT STUDY IN CIVIL ENGINEERING (1-3 credits)**

Individual study at the undergraduate level in a selected area of civil engineering under the supervision and guidance of a Civil & Environmental Engineering faculty member.

**CIVE 498 INDEPENDENT RESEARCH IN CIVIL ENGINEERING (1-6 credits)**

Independent research work and written findings in a selected area of civil engineering under the supervision and guidance of a Civil & Environmental Engineering faculty member.

**Prerequisite(s):** Permission

# College of Information Science & Technology (CIST)

## College of Information Science & Technology Undergraduate Courses

**CIST 1010 LEARN AND EARN: COLLEGE AND CAREER SUCCESS (1 credit)**

This course provides students the opportunity to identify their learning strengths and weaknesses along with academic strategies to support their success in traditional and online courses. Students will have opportunities to practice effective communication, problem solving, critical thinking, team work and career planning, with an emphasis on key elements of information technology professions. Students will gain skills and experience in establishing a personal brand, networking, and developing a professional career portfolio.

**Prerequisite(s):** Students may count only one of CIST 1010, US 1010, or US 1020 toward undergraduate degree requirements. Not open to non-degree graduate students.

**CIST 1300 INTRODUCTION TO WEB DEVELOPMENT (3 credits)**

This course covers the basics of web development with a focus on creating mobile-friendly websites. Students will learn HTML and CSS, the fundamental languages used to create web pages, and gain hands-on experience building responsive layouts and designing user interfaces. Additionally, the course covers best practices for mobile web development, including creating mobile-first designs and optimizing websites for different devices and screen sizes.

**Prerequisite(s):** High school algebra or equivalent

**CIST 1400 INTRODUCTION TO COMPUTER SCIENCE I (3 credits)**

This course is an introduction to computer science within the context of a high-level programming language. Students will be introduced to fundamental programming concepts and program design with the goal of solving computational problems. This course has a required laboratory component.

**Prerequisite(s):** MATH 1300, MATH 1320, or MATH 1370 (may be taken concurrently) and one of CIST 1300, CSCI 1200, or CSCI 1280 with a grade of C- or better.

**CIST 1510 CULTURE AND HISTORY OF VIDEO GAMES (3 credits)**

This course is an overview of the history of video gaming; its evolution, genres, and how games and gaming relate to their audience and the world in which we live. Topics include Project Management, HCI, GUI Design, Pattern Language(s), game design, console evolution, gaming/industry milestones, gaming cultures and subcultures, and the profound impact gaming has had on life in the modern world.

**Prerequisite(s):** Not open to non-degree graduate students.

**CIST 1600 INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING (3 credits)**

Practical scripting is an introductory course using a script programming language. The course covers fundamental programming concepts and program design such as data types, condition and control statements, and managing program complexity. The focus of the course is on practical applications of programming in other academic areas, such as automation of tasks, and data visualization.

**Prerequisite(s):** Not intended for students who have completed CIST 1400 and CSCI 1620



**CIST 2010 IS&T PROFESSIONAL DEVELOPMENT SEMINAR (2 credits)**

This course provides students with strategies for developing and attaining personal and professional goals. Topics include learning how to synthesize career information using skills developed in the class such as self-awareness, professional communication, critical thinking, and self-advocacy. Students will engage in experiential learning and activities to facilitate the development of the career readiness competencies identified by the National Association of Colleges & Employers, which include critical thinking, oral/written communications, collaboration, digital technology, leadership, professionalism, career management, and global/intercultural fluency. The skills students learn in this class promote lifelong learning and career development.

**Prerequisite(s):** Not open to non-degree graduate students.

**CIST 2100 ORGANIZATIONS, APPLICATIONS AND TECHNOLOGY (3 credits)**

This survey course provides an introduction to organizations and the role information and information systems play in supporting operations, decision-making, processes, quality management, and strategic activities of an organization. In addition, the course covers management of the IS function, strategic and regulatory issues of telecommunications, and ethical and legal issues.

**Prerequisite(s):** Sophomore standing, or permission of the instructor.

**Distribution:** Social Science General Education course

**CIST 2500 INTRODUCTION TO APPLIED STATISTICS FOR IS&T (3 credits)**

The course emphasizes the function of statistics in information science and technology including topics such as descriptive statistical measures, probability discrete probability, sampling, estimation analysis, hypothesis testing, regression, and analysis of variance. A well-known computer package will be used to support the problem-solving process.

**Prerequisite(s):** MATH 1220 or permission of an instructor

**CIST 3000 TECHNICAL WRITING & COMMUNICATION FOR IS&T (3 credits)**

Technical Writing & Communication for IS&T provides students with instruction and practice in academic and professional writing and communication related to Information Science and Technology. The course focuses on principles of technical writing, including sentence mechanics, audience, purpose, style, and formats. Students also learn advanced library-based research techniques, design of reports, and the creation of a recorded, narrated presentation.

**Prerequisite(s):** ENGL 1160 (or placement in a 3rd year writing course) and junior standing, or permission of the instructor. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**CIST 3110 INFORMATION TECHNOLOGY ETHICS (3 credits)**

The course covers the development and need for issues regarding privacy and the application of computer ethics to information technology.

**Prerequisite(s):** ENGL 1150 or placement in a second or third-year writing class, and sophomore standing

**Distribution:** Humanities and Fine Arts General Education course

**CIST 4540 COMPUTER SECURITY MANAGEMENT (3 credits)**

The purpose of this course is to integrate concepts and techniques from security assessment, risk mitigation, disaster planning, and auditing to identify, understand, and propose solutions to problems of computer security and security administration. (Cross-listed with CYBR 4540, CYBR 8546, ISQA 8546)

**Prerequisite(s):** CYBR 4360 or permission of the instructor.

**CIST 4910 SYSTEMS DEVELOPMENT IN OPEN SOURCE COMMUNITIES (3 credits)**

This course will expose students to systems development in open source communities. The course will engage existing open source communities in the advancement of open source code, tooling, processes, and methodologies.

**Prerequisite(s):** CIST 1400, CIST 2100, and CSCI 1620

# Communication Disorders (CDIS)

## Communication Disorders Undergraduate Courses

**CDIS 1400 INTRODUCTION TO COMMUNICATION DISORDERS (3 credits)**

This course is designed to introduce the candidate to the fields of speech-language pathology, audiology, and education of the deaf/hard of hearing. The course is an overview of normal development of speech, language, and hearing, and the disorders of human communication in children and adults.

**Distribution:** U.S. Diversity General Education course and Social Science General Education course

**CDIS 2380 ANATOMY AND PHYSIOLOGY OF THE SPEECH MECHANISM (3 credits)**

This course introduces candidates to the field of speech science. It examines the anatomy and physiology of the human communication process. The mechanisms of respiration, phonation, resonance, speech articulation, and basic neurology will be explored from the biological standpoint.

**Prerequisite(s):** Minimum 3.0 GPA

**CDIS 2420 EARLY LANGUAGE DEVELOPMENT IN CHILDREN (3 credits)**

This course is designed to introduce the candidate to the typical development of language in young children. Theories of development and the major developmental processes, which occur during the early childhood years, will be presented.

**Prerequisite(s):** Overall GPA of 3.0.

**CDIS 2550 CULTURAL COMPETENCE IN SERVICE DELIVERY (3 credits)**

The purpose of this course is to study the impact of cultural and linguistic diversity on communication, learning, and behavior. The contrast between what is considered typical language development and in the presence of culturally and linguistically diverse populations.

**Prerequisite(s):** Minimum GPA of 3.0

**CDIS 3200 WRITING FOR THE PROFESSION OF SPEECH-LANGUAGE PATHOLOGY (3 credits)**

This course provides candidates with instruction and practice in professional and scientific writing in the area of communication disorders. The focus is on principles of composition and modes of writing suited to scientific and clinical demands. Participants will learn to adapt writing for the needs of various academic and professional audiences including the ethical implications. Professional and evidence-based writing are essential functions for dedicated practitioners, reflective scholars and responsible citizens working in school, medical, and university settings.

**Prerequisite(s):** A minimum of 3.0 cumulative GPA

**Distribution:** Writing in the Discipline Single Course

**CDIS 3330 AURAL REHABILITATION (3 credits)**

This course examines the processes and procedures in determining the aural rehabilitation needs of individuals with hearing loss (children through adult) and developing effective intervention programs.

**Prerequisite(s):** GPA 3.0 or higher, or permission by the instructor for D/HH majors

**CDIS 3370 BASIC AUDIOLOGY (3 credits)**

The purposes of Basic Audiology are twofold: first, to acquaint the student with fundamental knowledge in the area of audiology so that he or she will be able to understand and to discuss basic hearing testing with an audiologist and to be able to read and understand written reports of audiological testing. The second purpose is to provide a broad theoretical background in audition, acoustics, sound and its measurement, hearing loss, and pathologies of the auditory system. This theoretical background will prepare the student for the more advanced concepts and clinical work that form the core of the graduate courses of Audiology.

**Prerequisite(s):** Minimum 3.0 GPA

**CDIS 3390 HEARING SCIENCE (3 credits)**

This course is designed for undergraduate majors in communication disorders. This course is designed to introduce the student to a detailed insight and coverage of basic principles of hearing science, relating to theory anatomy, acoustics, and physiology. To facilitate a working knowledge of acoustics, so that students may describe, integrate, and demonstrate understanding for clinical application.

**Prerequisite(s):** Minimum GPA of 3.0

**CDIS 3430 ARTICULATION AND PHONOLOGICAL DISORDERS (3 credits)**

The purpose of the course is to introduce candidates to the study of the disorders of articulation and of phonological patterns. The course will include the study of normal phonological development and typical acquisition of speech sounds in addition to the study of phonological simplification patterns and disordered articulation. This course will prepare pre-service speech-language pathology students as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world. Functional and organic parameters will be discussed including etiology, characteristics, assessment tools and techniques, therapeutic intervention, and service delivery models. The availability and effects of technology tools in the areas of assessment and intervention will be discussed. The role of the speech language pathologist in addressing cultural, professional, and ethical issues will be included.

**Prerequisite(s):** Minimum 3.00 GPA; CDIS 3450. This course is designed for undergraduate students majoring in communication sciences and disorders.

**CDIS 3450 PHONETICS (3 credits)**

The course covers basic theories of phonetics and experience in the application and use of the IPA. It also addresses the use of phonetics in the assessment process. Candidates learn about one aspect of their career that will lead to their becoming dedicated professionals, reflective scholars, and responsible citizens.

**Prerequisite(s):** Minimum GPA of 3.0

**CDIS 3460 SCHOOL AGE LANGUAGE DEVELOPMENT (3 credits)**

This course is designed to introduce the student to the normal development of speech and language in children beyond five years of age. Theories of development and the major developmental processes which occur during school age and adolescent years will be presented. The relationship of language to academic performance and learning processes will be included.

**Prerequisite(s):** Minimum GPA of 3.0, successful completion of CDIS 2420 (early language development)

**CDIS 4470 NEUROPHYSIOLOGY OF SPEECH AND LANGUAGE (3 credits)**

The purpose of this course is to provide speech-language pathology undergraduate students an introduction to human neuroanatomy and neurophysiology of the speech, language and hearing mechanisms, across the lifespan. Emphasis is placed on developing an understanding of the neurophysiological underpinnings of human communication and its disorders.

**Prerequisite(s):** A minimum GPA of 3.0 and CDIS 2380 or equivalency. Not open to non-degree graduate students.

**CDIS 4480 RESEARCH METHODS IN COMMUNICATION DISORDERS (3 credits)**

This course will provide candidates with an introductory set of skills to interpret and evaluate research in communication disorders and closely related fields. In addition, this course will provide candidates with basic knowledge regarding research designs and analyses commonly used in communication disorders and related fields. The content addressed in this course will prepare candidates to judiciously evaluate evidence-based practice and apply the scientific method to clinical decision-making. It offers an opportunity to cultivate critical thinking skills imperative to becoming dedicated practitioners, reflective scholars, and responsible citizens who can adeptly meet the ever-evolving challenges of their profession.

**Prerequisite(s):** This course is designed for graduate and undergraduate students majoring in communication sciences and disorders. A minimum 3.0 GPA is required.

**CDIS 4490 INTRODUCTION TO PROFESSIONAL PRACTICES (3 credits)**

This course is designed to precede the candidates' first practicum experiences. Candidates will learn about issues affecting their roles and responsibilities as speech-language pathologists. Information about state and national certification, licensure and professional organizations, professional ethics, philosophical bases and professional practice patterns regarding the assessment process in speech-language pathology, and counseling parents in prevention of speech/language disorders is central to the course. Candidates will develop an understanding of how cultural/ethnic diversity affects the assessment process and learn how to identify speech/language differences vs. disorders.

**Prerequisite(s):** 3.0 GPA. Not open to non-degree graduate students.

**CDIS 4500 PRINCIPLES OF ASSESSMENT AND INTERVENTION (3 credits)**

The purpose of the course is to examine the various aspects of the profession of speech-language pathology as related to scope of practice, prescriptive methodology, models of assessment and service delivery and the selection and use of clinically-oriented technology and materials. Accountability (documentation, data collection, report writing, and service plans), multi/inter-disciplinary team membership, case selection and referral processes will also be examined. This course will provide the students with the knowledge and skills to implement appropriate assessment procedures and create an effective learning environment for each individual client.

**Prerequisite(s):** Min of 3.0 GPA, CDIS 4490

**CDIS 4510 BASIC CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY (3 credits)**

This course is the entry level clinical course for undergraduate candidates majoring in Speech-Language Pathology. Candidates are offered their first opportunity to apply theoretical knowledge in a hands-on clinical experience under the direct supervision of licensed and certified speech-language pathologists.

**Prerequisite(s):** SPED 4490/CDIS 4490, overall 3.0 GPA in major, Senior standing, Speech-Language Pathology Major, Permission from program faculty. Not open to non-degree graduate students.

**CDIS 4750 INTRODUCTION TO CHILDHOOD LANGUAGE DISORDERS (3 credits)**

This course is designed to introduce the candidate to the theory and clinical practices related to assessment and management of language disorders in children and adolescents. It will cover specific strategies for identifying language disorders and evidence-based approaches to the management of language disorders, including data collection strategies and methods of evaluating efficacy of intervention.

**Prerequisite(s):** CDIS 2420 and CDIS 4460; 3.0 GPA. Not open to non-degree graduate students.

## Communication, Fine Arts, & Media (CFAM)

### Communication, Fine Arts, & Media Undergraduate Courses

#### **CFAM 1010 PROFESSIONAL SEMINAR: COMMUNICATION, FINE ARTS AND MEDIA (1 credit)**

This course is designed to provide an overview of study in communication, fine arts, and media, developing techniques to guide success in their chosen field. Students will use critical thinking and reasoning to analyze themes, perspectives, and concepts drawn from academic works and career development theory to inform academic, personal, and professional lives.

**Prerequisite(s):** Not open to non-degree graduate students.

#### **CFAM 2500 INTEGRATED ARTS FOR THE CLASSROOM TEACHER (1 credit)**

CFAM 2500 provides students with an introduction to the theories and practices of arts integration. The course begins with an overview of art and music education for classrooms, grades PK-6. Students study foundational concepts in educational theory and learn how to apply those theoretical ideas through art and music. Finally, students learn to use the tools of "arts integration" to apply art and music techniques to curriculum in other subject areas (such as math, social studies, science, English, etc.) in ways that are developmentally appropriate for grades PK-6.

**Prerequisite(s):** Elementary Education Major or Permission of Instructor

#### **CFAM 3050 CFAM HONORS COLLOQUIUM (3 credits)**

Honors colloquium—Arts is an interdisciplinary course for University Honors Program students. Drawing from multiple disciplines, it provides students insight into cross-disciplinary study of the arts, centered around changing themes and/or concepts.

**Prerequisite(s):** University Honors Program Student status. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

## Communication Studies (CMST)

### Communication Studies Undergraduate Courses

#### **CMST 1110 PUBLIC SPEAKING FUNDS (3 credits)**

Public Speaking Fundamentals helps students become effective public speakers, as well as critical listeners and evaluators of public communication. Students will learn the principles of audience adaptation, topic selection, organization, development of ideas and presentation of speeches. Each student will design and present a minimum of four public speeches.

**Distribution:** Fundamental Academic Skills-Public Speaking

#### **CMST 1310 PERSPECTIVES IN COMMUNICATION STUDIES (3 credits)**

This course surveys concepts in the dynamic field of communication studies. Students will examine how communication practices shape our worldviews and our relationships in both private and public contexts. This course emphasizes concepts including, but not limited to: a) interpersonal relationships, b) organizational communication & employee relations, c) public & political communication, d) communication technology & human relationships, e) culture & communication, f) health communication, g) communication training & instructional development and h) conflict resolution. Students will also have the opportunity to be informed about possible careers in communication studies.

**Distribution:** Social Science General Education course

#### **CMST 1400 EXPLORING COMMUNICATION STUDIES (3 credits)**

This course is an introduction to the field of Communication Studies. Students will learn the history of the discipline, the fundamental concepts, forms, and terms of the discipline, as well as the research methodologies often used by communication scholars. Various topics and areas of inquiry within the field (with specific focus on the areas offered and available to the students in the School of Communication) are discussed to set up students for success by developing a plan of study around their interests. Related careers will be included.

#### **CMST 2010 INTERPERSONAL COMMUNICATION (3 credits)**

This course is an introduction to the study of interpersonal communication. Within this course, students will be introduced to the theories, research, and concepts relevant to interpersonal communication and will be given opportunities to develop and enhance their own communication skills.

**Distribution:** Social Science General Education course

#### **CMST 2100 INTRODUCTION TO COMMUNICATION THEORY (3 credits)**

Communication Theory is an undergraduate course designed to introduce students to the major foundational theories that inform the field of communication. Special emphasis is placed on communication theories that examine the self, the message, relationship development, groups and organizations, the public and the media, as well as culture and diversity. Skills learned in this course are necessary foundations for the upper-level communication courses as well as the Communication Studies capstone course.

#### **CMST 2120 ARGUMENTATION AND DEBATE (3 credits)**

Theory and practice of effective argumentation and debate. Students will participate in a variety of speaking activities involving the application of argumentation principles to current political and social issues.

**Distribution:** Fundamental Academic Skills-Public Speaking

#### **CMST 2300 INTERGROUP DIALOGUE (3 credits)**

The increasing diversity in the US presents a growing need for communication skills one can apply whenever we work with, learn with, and relate to those with different social identities than our own. This course is designed to provide students with experiences and skills necessary to engage in open and constructive dialogue across social identity groups. The course incorporates content learning, structured interaction, peer facilitation, and self-reflection to support students as they explore issues of intergroup relations, conflict, and community.

**Distribution:** U.S. Diversity General Education course

#### **CMST 2410 SMALL GROUP COMMUNICATION AND LEADERSHIP (3 credits)**

This course is an introduction to the theory and practice of communication and leadership within small group settings. This course will provide students with broad knowledge about small group communication processes.

**Distribution:** Social Science General Education course

#### **CMST 3130 SPEECH COMMUNICATION IN BUSINESS AND THE PROFESSIONS (3 credits)**

This course is designed to introduce students to the important and varied role communication plays in the workplace and other professional settings. The course emphasizes informative and persuasive communication principles and practices in one-to-many presentational situations as well as group communication and interviewing.

**Prerequisite(s):** CMST 1110 or CMST 2120. Not open to non-degree graduate students.

#### **CMST 3140 CONTEMPORARY PRESENTATIONS (3 credits)**

This course helps students craft messages for an audience through assignments representing contemporary public address. Responsible public address emphasizes creating messages that encourage democratic deliberation through artful presentation of truth. Students will investigate practical aspects of public communication theory, engage in audience analysis, and explore language choices to develop their ability to responsibly practice public communication.

**Prerequisite(s):** CMST 1110 or CMST 2120

**CMST 3150 INTERCOLLEGIATE FORENSICS I (1-3 credits)**

This course familiarizes students to Intercollegiate Forensics. Students enrolled in this course will compete in a variety of speaking and performance events to develop their skills in prepared public speaking, oral interpretation of literature, and extemporaneous/improvised speaking. Students are required to compete in 1-3 speaking events during the semester.

**Prerequisite(s):** Permission of the Director of Forensics only

**CMST 3160 INTERCOLLEGIATE FORENSICS II (1-3 credits)**

This course is catered to communication, pre-law, and other interested students who desire to further their participation in intercollegiate forensics including informative, persuasive, impromptu, extemporaneous, and after-dinner speaking. This course advances students' skills in oral interpretation, solo and or duet acting, rhetorical criticism, and discussion.

**Prerequisite(s):** Permission of the Director of Forensics only

**CMST 3300 LEADERSHIP FOR INTERGROUP DIALOGUE (3 credits)**

This class instructs, coaches, supports, and empowers student-leaders to effectively facilitate important intergroup dialogues with their peers. Students are given leadership opportunities developing skills regarding facilitating difficult conversations, perspective sharing, and navigating conflict.

**Prerequisite(s):** CMST 2300 and permission of instructor. Not open to non-degree graduate students.

**CMST 3340 RHETORICAL CRITICISM (3 credits)**

Developing critical and analytical skills is vital to succeed in contemporary culture. In this course students will learn a variety of theoretical and critical approaches to rhetorical criticism enabling them to critically analyze the messages that surround us. This course offers students the tools to analyze the ways rhetoric undergirds or undermines existing power structures, and how it might reshape them.

**Prerequisite(s):** CMST 2100 or permission of instructor. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**CMST 3350 COMMUNICATION RESEARCH (3 credits)**

Research is important to understand communication, messages, audiences, behaviors, and motivations. This course develops students' abilities to conduct communication research focusing on two overarching methodological approaches used by communication scholars and industry professionals - Quantitative and Qualitative. The topics include research design, data management, statistical analysis, and report writing.

**Prerequisite(s):** CMST 2100 or instructor permission. Not open to non-degree graduate students.

**CMST 3520 INTERVIEWING (3 credits)**

This course is a practical course that focuses on various types of interview performances. The course will explore interview types such as probing/journalistic, survey, recruiting/employment, performance, counseling, and persuasive

**CMST 3530 INTERCULTURAL COMMUNICATION & POWER (3 credits)**

The objective of this course is to examine the interplay of communication, power, and culture. In this class, culture is described as the normative standard of behavior espoused by members based on group's identity, values, attitudes, and beliefs. Power dynamics are explored for their impact on relations between dominant and non-dominant subcultures in the U.S. context. This curriculum demonstrates the role of communication for effective relations within and between cultures. By the end of this course students will be able to recognize, articulate, and actuate effective practices in cultural competency.

**Prerequisite(s):** Pre-req CMST 2100, CMST 2300, or permission of instructor

**Distribution:** U.S. Diversity General Education course

**CMST 3600 SPECIAL TOPICS IN COMMUNICATION STUDIES (3 credits)**

A variable topic course in communication studies at the Junior level. Topics to be covered may include but are not limited to: marital and family communication, instructional communication, organizational communication, intercultural communication, conflict, relational communication, communication competence, health communication, communication research or theory, communication and gender, social movements, political communication, listening, communication and the aged, etc. (May be repeated for credit as long as the topic is not the same.)

**Prerequisite(s):** CMST 2100, co or pre req CMST 3350 or CMST 3340, or permission of instructor

**CMST 3750 GENDER AND COMMUNICATION (3 credits)**

This course provides a survey of literature on communication about, by, and between women, men, and trans people in society, personal relationships, and organizations. Students develop an understanding of how cultural meanings of gender both shape and are shaped by communication. (Cross-listed with WGST 3750).

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**CMST 4120 COMMUNICATION AND SOCIAL PROTEST (3 credits)**

This class will examine the role played by communication in movements for social change in contemporary society. We will examine social movements which rely on speeches (i.e. women's rights movements), social movements which rely on the grassroots political efforts of their members (i.e. the environmental rights movement) and the overall strategies of persuasion utilized in movements which seek social change, including emerging communication technologies.

**Prerequisite(s):** Pre or co-req CMST 3340, or permission of instructor

**CMST 4130 FAMILY COMMUNICATION (3 credits)**

This course emphasizes the role of communication in family relationships. Theories, models, and research methods will be used to examine the family in various cultures and contexts (e.g., nuclear families, single-parent families, and blended families). Topics that will be covered in this course include: family conflict, family roles, family stories, family stress, family well-being, genograms, marriage, and divorce. (Cross-listed with CMST 8136)

**Prerequisite(s):** Pre or co-req CMST 3350, or permission of instructor. Not open to non-degree graduate students.

**CMST 4140 COMMUNICATION AND HUMAN RELATIONSHIPS (3 credits)**

This course applies theories of interpersonal processes and communication principles to the study of close, significant and personal human relationships. Discussion focuses on the communication in different types of relationships and relational stages, e.g., strangers, acquaintances, friendships and intimates.

**Prerequisite(s):** Pre or co req CMST 3350, or permission of instructor. Not open to non-degree graduate students.

**CMST 4150 ORGANIZATIONAL TRAINING AND DEVELOPMENT (3 credits)**

This course introduces students to the process of designing communication training programs and workshops for a variety of professional settings. It provides students, especially those who are prospective trainers and/or consultants, with experiential and cognitive knowledge about needs assessment, adult learning, communication training research, objectives writing, module design, interactive delivery methods and program evaluation. (Cross-listed with COMM 8156)

**Prerequisite(s):** Junior or Senior Standing, or permission of instructor. Not open to non-degree graduate students.



**CMST 4160 COMMUNICATION FOR INSTRUCTIONAL SETTINGS (3 credits)**

This course is designed to help prospective instructors and/or trainers understand and apply the principles of communication in instructional settings (i.e., classrooms, workshops, training programs). It introduces students to the research area in the speech communication discipline called 'Instructional Communication' by covering these five units:

1) Communication Strategies, Objectives, & Content; 2) Student Communication Needs & Expectations; 3) Feedback, Reinforcement, & Discussion; 4) Context, Climate, & Influence; and 5) Teacher Communicator Style, Characteristics, & Behaviors. (Cross-listed with COMM 8166)

**Prerequisite(s):** Junior or Senior Standing, or permission of instructor

**CMST 4170 ORGANIZATIONAL COMMUNICATION (3 credits)**

This course will help students understand organizational communication theories, models, and processes; apply these principles in organizational communication speaking exercises; and learn management and leadership skills. (Cross-listed with COMM 8176)

**Prerequisite(s):** Junior or Senior standing or permission of instructor. Not open to non-degree graduate students.

**CMST 4180 COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS (3 credits)**

This course provides theoretical and experiential knowledge about such topics as communication leadership styles and tactics, superior and subordinate interactions, power, ethical responsibilities, and diversity gender issues related to communication leadership. (Cross-listed with COMM 8186)

**Prerequisite(s):** Junior or Senior Standing, or permission of instructor. Not open to non-degree graduate students.

**CMST 4190 COMPUTER-MEDIATED COMMUNICATION (3 credits)**

Computer-Mediated Communication addressing emerging issues of virtual communities, identity, civic life and participation, online relationships, collaborative work environments, digital networks, gender race class issues, legal and ethical considerations of technology, and commodification of mediated communication. (Cross-listed with CMST 8196).

**Prerequisite(s):** Junior or Senior Standing, or permission of instructor

**CMST 4220 HEALTH COMMUNICATION (3 credits)**

This course introduces students to the interdisciplinary field of health communication. In this course, students will learn various theories of health communication as well as current research and trends in health communication and its related fields. To speak to the complexity and dynamism of health communication, this course will expose students to the multiple voices and perspectives involved in the delivery of health and healthcare.

**Prerequisite(s):** Junior or Senior Standing, or permission of instructor. Not open to non-degree graduate students.

**CMST 4300 RISK AND CRISIS COMMUNICATION (3 credits)**

Risk/Crisis Communication, both as a discipline and a practice, has been discussed and enacted as long as there has been information to communicate because of an extraordinary event. Governments, businesses, universities, even individuals - all of engaged in one form of risk or crisis communication or another. Whether successful in its intentions or not, the act is there. This class is a theoretically-driven course to inform our practices as both creators of messages and critics of those same messages. (Cross-listed with JMC 4300).

**Prerequisite(s):** CMST 2100 or permission of instructor

**CMST 4510 PERSUASION AND SOCIAL INFLUENCE (3 credits)**

The primary goal of this course is to provide students with a solid grounding in theories, principles, and strategies of persuasion social influence as they apply to everyday contexts in which influence attempts take place. Students should gain familiarity with findings from empirical investigations on persuasion, social influence, and compliance gaining, and will learn about strategies and techniques of persuasion relating. (Cross-listed with COMM 8516)

**Prerequisite(s):** Junior or Senior Standing, or permission of instructor. Not open to non-degree graduate students.

**CMST 4570 INTERCULTURAL COMMUNICATION IN THE GLOBAL WORKPLACE (3 credits)**

This course examines the intercultural perspective of organizational communication in a modern global world by focusing on the management of cultural differences in the global workplace. The trend towards a global economy is bringing people of different ethnic and cultural background together. Thus, the development of greater intercultural understanding has become an essential element of global workplace. After taking this course you will be more aware of cultural diversity in an organizational setting and further develop intercultural sensitivity and intercultural competence that will help you adapt to your future organizational life. (Cross-listed with COMM 8576).

**Prerequisite(s):** Junior or Senior Standing, or permission of instructor

**Distribution:** Global Diversity General Education course

**CMST 4580 COMMUNICATING RACE, ETHNICITY & IDENTITY (3 credits)**

This is an undergraduate/graduate course that provides students with definitional and experiential knowledge about the origin of racial concepts, theories, and practices, definitions of ethnicity and identity, and the communicative relationship between race, ethnicity, and identity. (Cross-listed with CMST 8586, BLST 4580, BLST 8586)

**Prerequisite(s):** CMST 4530 or Junior standing or instructor permission; minimum cumulative GPA of 2.25.

**Distribution:** U.S. Diversity General Education course

**CMST 4700 INTERPERSONAL CONFLICT (3 credits)**

This course provides an overview of interpersonal conflict processes. It examines perspectives on conflict, patterns of constructive and destructive conflict, conflict styles and tactics, interpersonal power, negotiation strategies, conflict assessment, and conflict skill development. (Cross-listed with COMM 8706)

**Prerequisite(s):** Junior or Senior standing, or permission of instructor

**CMST 4800 CONFLICT MEDIATION (3 credits)**

This course develops knowledge of mediation theory, research, and practice and communication skills essential to the effective mediation of disputes in various contexts.

**Prerequisite(s):** CMST 2010 or CMST 2410 or CMST 2300 or CMST4700, or permission of instructor

**CMST 4940 COMMUNICATION STUDIES CAPSTONE SEMINAR (3 credits)**

Communication Studies Capstone Seminar is an undergraduate course designed to provide students with the opportunity to integrate the knowledge and skills they have acquired as communication majors and to prepare them to enter the job market or graduate school using their speech communication skills and knowledge.

**Prerequisite(s):** CMST 2300, CMST 3340 and CMST 3350 or permission of instructor

**CMST 4970 INTERNSHIP EXPERIENCE (1-3 credits)**

This course will provide students professional communication-related experience in an internship approved and supervised by the School of Communication. 3 credits = 150 hours at site. 2 credits = 100 hours at site. 1 credit = 50 hours at site. No retroactive internship credit permitted. Additional coursework completed online will develop career competencies including resume, cover letter, portfolio, and interviewing skills.

**Prerequisite(s):** Sophomore standing; instructor permission; and minimum cumulative GPA of 3.0.

**CMST 4980 INDEPENDENT STUDY COMMUNICATION (3 credits)**

Specialized studies in communication supplementing regular courses: readings, research, tutorial.

**Prerequisite(s):** CMST 3340 OR CMST 3350 AND permission of department.



# Computer Science (CSCI)

## Computer Science Undergraduate Courses

### **CSCI 1200 COMPUTER SCIENCE PRINCIPLES (3 credits)**

This course introduces students to the foundational principles of computer science. It aims to help students learn the essential thought processes used by computer scientists to solve problems, expressing those solutions as computer programs. The exercises and projects make use of mobile devices and other emerging platforms.

**Prerequisite(s):** High school algebra or equivalent.

**Distribution:** Natural/Physical Sci General Education lecture

### **CSCI 1204 COMPUTER SCIENCE PRINCIPLES LABORATORY (1 credit)**

This is a laboratory course for students enrolled in CSCI 1200. It consists of programming exercises designed to help students practice computational thinking and apply computational solutions to practical problems. The exercises make use of mobile devices and other emerging platforms.

**Prerequisite(s):** CSCI 1200, prior or concurrent.

**Distribution:** Natural/Physical Sci General Education lab course

### **CSCI 1280 INTRODUCTION TO COMPUTATIONAL SCIENCE (3 credits)**

Introduction to Computational Science explores the role of computer science in scientific inquiry. Through the construction and analysis of block-based visual artifacts (e.g., pixel art and geometric patterns), this course aims to help students learn the essential thought processes used by computer scientists to solve problems, expressing those solutions as computer programs. When executed, these computer programs produce visual artifacts that can be displayed and interacted with using a variety of tools/software including LEGO Digital Designer, Minecraft, LDraw, 3D Builder, and Virtual Reality systems such as the HTC Vive.

**Prerequisite(s):** MATH 1120 or MATH 1130 or MATH 1220 or equivalent with C- or better, or permission of the instructor

**Distribution:** Natural/Physical Science General Education course and Natural/Physical Sci General Education lecture

### **CSCI 1620 INTRODUCTION TO COMPUTER SCIENCE II (3 credits)**

This course introduces students to advanced programming techniques and algorithm analysis. The topics covered will enable students develop large scale software with efficient algorithms that are maintainable. This course has a required laboratory component; students must register for the laboratory section attached to their lecture section.

**Prerequisite(s):** CIST 1400 AND MATH 1300/1320/1370 (both with a grade of C or better)

### **CSCI 2030 MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (3 credits)**

This course introduces discrete mathematics concepts that are foundational for the study of computer science such as functions, relations, and sets, basic logic, methods of proof, mathematical induction, computational complexity, recursion, counting, recurrences, and relations.

**Prerequisite(s):** (CIST 1400 with grade of C or better) AND (MATH 1930 or MATH 1950 with grade of C- or better)

### **CSCI 2040 INTRODUCTION TO MATHEMATICAL PROOFS (1 credit)**

This course will provide an introduction to mathematical proofs and the art of reading, writing, and debugging proof attempts including mathematical notations, proof and counterexample generation methods and strategies. It will develop the rigor and precision needed to establish and refute mathematical conjectures and reason about the correctness of programs.

**Prerequisite(s):** CSCI 2030 as corequisite.

### **CSCI 2240 INTRODUCTION TO C PROGRAMMING (3 credits)**

Programming in 'C' in a UNIX operating system environment; algorithm and program development and file manipulation using 'C'; UNIX-like utility development.

**Prerequisite(s):** CSCI 1620 with grade of C or better

### **CSCI 2410 INTRODUCTION TO DATA ANALYTICS USING PYTHON (3 credits)**

This course is an introduction to the basic concepts and principles of data analytics using the Python programming language. The first part of the course covers major Python language topics including procedures and functions, iteration, recursion, arrays and matrices, strings, operational model of procedure and function calls, algorithms, exceptions, object-oriented programming, and file input/output. The coverage of Python language features are aimed mainly at the data analytics studies of this course. The second part of the course emphasizes applying Python and its rich functional libraries and special software packages to data munging, analysis, mining, and visualization, and machine learning techniques including statistical analysis, parameter estimation, regression, classification, predictive modeling construction, etc.

**Prerequisite(s):** (CSCI 1620 with grade of C or better) AND (CIST 2500 or equivalent statistics course with grade of C- or better). Not open to non-degree graduate students.

### **CSCI 2510 INTRODUCTION TO GAME PROGRAMMING (3 credits)**

The course will cover programming and development techniques used in a game programming environment. The course is designed for students who have an interest in game programming to be eased into the concepts in a familiar environment.

**Prerequisite(s):** CSCI 2240 with C- or better. Not open to non-degree graduate students.

### **CSCI 2620 2D GRAPHICS: IMAGE PROCESSING (3 credits)**

This class introduces the 2D graphics area of image processing, which takes an image, creates an internal model of the image, modifies it using a computer program, and produces a new image. Specific techniques covered in this course include color spaces, image transformations, edge detection, file formats, object tracking, and background removal.

**Prerequisite(s):** CSCI 1620 with grade of C or better

### **CSCI 2830 OBJECT-ORIENTED SOFTWARE ENGINEERING FUNDAMENTALS (3 credits)**

This course introduces students to the central principles and practices of object-oriented design and programming. Common strategies and practices for the systematic development of larger object-oriented systems are also covered.

**Prerequisite(s):** CSCI 1620 (in Python)

### **CSCI 2840 C++ & OBJECT-ORIENTED PROGRAMMING (3 credits)**

C++ and Object Oriented Programming (OOP) is taught in the UNIX environment. Topics include C++ as a 'Better C,' OOP with C++, classes and data abstraction, operator overloading, inheritance, virtual functions and polymorphism, C++ stream I/O.

**Prerequisite(s):** CSCI 2240; High-level programming language like Pascal, Java, or C++; solid understanding of pointers & scope; ability to design & implement solutions to modest problems (with C- or better).

### **CSCI 2850 PROGRAMMING ON THE INTERNET (3 credits)**

This course is intended as a continuation of the exploration of topics covered in CIST 1300 and CIST 1400. The course will provide students with a broad overview and understanding of the following topics: how web servers work, configuring web servers, using databases for data storage and retrieval, understanding model-view-controller design for web development, and configuring reverse proxy and WSGI servers for application deployment.

**Prerequisite(s):** (CIST 1300 with grade of C- or better) AND (CIST 1400 with grade of C or better)

**CSCI 2880 INTRODUCTION TO GENERATIVE AI (3 credits)**

Generative AI is a form of machine learning that can generate content. AI Image Generators like Midjourney are capable of creating images nearly indistinguishable from human artwork. Large Language Models (LLMs) like ChatGPT have advanced abilities concerning understanding human language. LLMs can carry on conversations, write essays and stories, and even generate code. Generative AI is the defining technology of our times. This course provides an introduction to this technology: How it works, and how to use it.

**Prerequisite(s):** CSCI 1620 (with a grade of C or better) and CSCI 2030 (with a grade of C or better)

**CSCI 2960 SHORT TOPICS FOR PROGRAMMERS (1 credit)**

This course provides a hands-on introduction to contemporary programming languages and tools for software development not covered in other courses. Each offering focuses on one such technology. The course emphasizes informal and practical learning, and points students to relevant coursework for more systematic coverage of underlying principles.

**Prerequisite(s):** CSCI 1620 or instructor permission

**CSCI 2980 TOPICS IN COMPUTER SCIENCE (3 credits)**

A variable topic course in computer science at the sophomore level. Topics not covered in the computer science degree program, but suitable for sophomore-level students.

**Prerequisite(s):** CSCI 1620. Permission of instructor. Additional prerequisites may be required for particular topic offerings with C- or better.

**CSCI 3100 APPLIED COMBINATORICS (3 credits)**

Basic counting methods, generating functions, recurrence relations, principle of inclusion-exclusion. Polya's formula. Elements of graph theory, trees and searching network algorithms. (Cross-listed with CSCI 8105, MATH 3100, MATH 8105).

**Prerequisite(s):** MATH 2030, MATH 2040, MATH 2230, or CSCI 2030 all with a C- or better. Mathematical logic; Set theory; Relations; Functions; Congruences; Inductive and recursive definitions; Discrete probability; sets, graphs, trees, & matrices

**CSCI 3320 DATA STRUCTURES (3 credits)**

This is a core that will cover a number of data structures such as tree, hashing, priority queues and graphs as well as different algorithm design methods by examining common problem-solving techniques. (Cross-listed with CSCI 8325)

**Prerequisite(s):** CSCI 1620 and CSCI 2030 or MATH 2030. Programming Languages: Java or C++ Topics: Arrays, Pointers, Introductory Lists, Storage Allocation (with C- or better).

**CSCI 3450 NATURAL LANGUAGE PROCESSING (3 credits)**

The course will provide overview of the topics in natural language processing such as word and sentence tokenization, syntactic parsing, semantic role labeling, text classification. We will discuss fundamental algorithms and mathematical models for processing natural language, and how these can be used to solve practical problems. We will touch on such applications of natural language processing technology as information extraction and sentiment analysis. (Cross-listed with CYBR 3450).

**Prerequisite(s):** Prereq: CSCI 2030 with C- or better; Co-req: CSCI 3320 with C- or better; Students should be comfortable w/ scripting (Python is the language extensively used in natural language processing tools including NLTK). Not open to non-degree graduate students.

**CSCI 3470 FUNDAMENTALS AND ALGORITHMS OF MACHINE LEARNING (3 credits)**

This course discusses the fundamentals and algorithms of machine learning and contains both theory and application. Machine learning, as a subset of artificial intelligence, is the scientific study of models that computer systems use to perform a specific task without explicit instructions. Topics in this course will include supervised learning such as Decision Tree, Perceptron, Support Vector Machine, Naive Bayes, and Regression, unsupervised learning such as clustering, dimensionality reduction, kernel methods, learning theory such as bias/variance trade-offs, Generalization and Overfitting and large margins. Other crucial topics will include discussions such as Stacking, Semi-Supervised Learning and Interactive Learning. This course will also discuss a few applications in problem domains such as in computer vision.

**Prerequisite(s):** CSCI 2410 or instructor permission. Not open to non-degree graduate students.

**CSCI 3510 ADVANCED GAME PROGRAMMING (3 credits)**

This course is intended for those with an interest in video game programming. This course introduces the advanced concepts of game programming including 3D programming, game networking, and development of a multiplayer, networked game by learning and using the XNA environment.

**Prerequisite(s):** CSCI 2510 and CSCI 3320 with C- or better, or Instructor permission. Not open to non-degree graduate students.

**CSCI 3550 COMMUNICATION NETWORKS (3 credits)**

This course is designed to bring students up to the state of the art in networking technologies with a focus on Internet. It will cover the principles of networking with an emphasis on protocols, implementations and design issues. (Cross-listed with CSCI 8555).

**Prerequisite(s):** (CSCI 3320 or CSCI 8325 with grade of C- or better) AND (CSCI 2240 or CYBR 2250 with grade of C- or better)

**CSCI 3660 THEORY OF COMPUTATION (3 credits)**

The course is intended to introduce the students to the theory of computation in a fashion that emphasizes breadth and away from detailed analysis found in a normal undergraduate automata course. The topics covered in the course include methods of proofs, finite automata, non-determinism, regular expressions, context-free grammars, pushdown automata, no-context free languages, Church-Turing Thesis, decidability, reducibility, and space and time complexity.

**Prerequisite(s):** CSCI 3320

**CSCI 3710 INTRODUCTION TO DIGITAL DESIGN AND COMPUTER ORGANIZATION (3 credits)**

The course is intended to introduce the students to the topics found in introductory digital design and computer organization classes.

**Prerequisite(s):** CSCI 3320 (could be taken concurrently)

**CSCI 3830 ADVANCED JAVA PROGRAMMING (3 credits)**

This course teaches students web application development using advanced concepts in the Java programming language. It introduces students to distributed computing models such as the client-server model and how it is implemented in web applications using modern Java technology stacks.

**Prerequisite(s):** ((CSCI 2830 with C- or better) OR Java programming proficiency) AND (CSCI 3320 with C- or better (can be taken as a co-requisite)) AND (basic knowledge of HTML and SQL)

**CSCI 3850 FOUNDATIONS OF WEB SEARCH TECHNOLOGIES (3 credits)**

This course provides students a basic understanding of how search and information flow works on the web. Main topics include: document representation, inverted indexing, ranking of web search results, vector-space model, web graph, PageRank, search-based advertising, information cascades, and web crawling.

**Prerequisite(s):** CSCI 2030 and CSCI 2850 with C- or better, or instructor Approval. Not open to non-degree graduate students.

**CSCI 4000 ASSESSMENT (0 credits)**

This course provides various resources to students about to graduate, and provides a mechanism that guarantees these students complete the final assessments required to maintain the currency and quality of the program. It is intended for undergraduate computer science majors in their last semester prior to graduation. It is required for all students entering after the spring 2004 semester. All degree requirements should be completed by the end of the semester during which this course is taken. Students taking this course will be expected to file an application for graduation during the semester.

**Prerequisite(s):** All degree requirements should be completed by the end of the semester during which this course is taken. Students taking this course will be expected to file an application for graduation during the semester. Not open to non-degree graduate students.

**CSCI 4010 INTRODUCTION TO THE THEORY OF RECURSIVE FUNCTIONS (3 credits)**

This is a proof-oriented course presenting the foundations of Recursion Theory. We present the definition and properties of the class of primitive recursive functions, study the formal models of computation, and investigate partially computable functions, universal programs. We prove Rice's Theorem, the Recursion Theorem, develop the arithmetic hierarchy, demonstrate Post's theorem. Introduction to the formal theories of computability and complexity is also given. (Cross-listed with MATH 4010, MATH 8016, CSCI 8016).

**Prerequisite(s):** MATH 2230 or MATH 2030 with a C- or better or CSCI 3660 with a C- or better or instructor's permission.

**CSCI 4100 INTRODUCTION TO ALGORITHMS (3 credits)**

The course provides students a basic understanding of algorithm analyses. Main topics include: growth of functions, asymptotic notation, recurrences, divide and conquer, sorting and its lower bounds, dynamic programming, greedy algorithms, and graph traversal.

**Prerequisite(s):** CSCI 3320 with C- or better.

**CSCI 4150 GRAPH THEORY & APPLICATIONS (3 credits)**

Introduction to graph theory. Representations of graphs and graph isomorphism. Trees as a special case of graphs. Connectivity, covering, matching and coloring in graphs. Directed graphs and planar graphs. Applications of graph theory in several fields such as networks, social sciences, VLSI, chemistry and parallel processing. (Cross-listed with CSCI 8156, MATH 4150, MATH 8156).

**Prerequisite(s):** CSCI 2030 with a C- or better, or MATH 2030 with a C- or better, or MATH 2230 with a C- or better, or permission of instructor.

**CSCI 4200 NUMERICAL ANALYSIS (3 credits)**

This course involves solving nonlinear algebraic equations and systems of equations, interpolation and polynomial approximation, numerical differentiation and integration, numerical solutions to ordinary differential equations, analysis of algorithms and errors, and computational efficiency. (Cross-listed with CSCI 8206, MATH 4200, MATH 8206).

**Prerequisite(s):** MATH 1970 and MATH 2050 and MATH 2350 with a C- or better or permission of instructor.

**CSCI 4220 PRINCIPLES OF PROGRAMMING LANGUAGES (3 credits)**

This course covers the foundational concepts and principles underlying the design and implementation of programming languages. Language constructs including assignment, equality, references, aggregations, scope, encapsulation, and parameter passing are discussed. A central theme is how a particular language construct relates to the concept of equational reasoning (referential transparency). Formal notations for describing syntax and semantics are presented.

**Prerequisite(s):** CSCI 3320 and CSCI 3660 with C- or better.

**CSCI 4250 HUMAN COMPUTER INTERACTION (3 credits)**

Human computer interaction is concerned with the joint performance of tasks by humans and machines; human capabilities to use machines (including learnability of interfaces); algorithms and programming of the interface; engineering concerns that arise in designing and building interfaces; the process of specification, design, and implementation of interfaces; and design trade-offs. (Cross-listed with CSCI 8256).

**Prerequisite(s):** Either CSCI 3320 or ITIN 3330 with a grade of C- or better.

**CSCI 4260 USER EXPERIENCE DESIGN (3 credits)**

User experience (UX) design is concerned with the application of user-centered design principles to the creation of computer interfaces ranging from traditional desktop and web-based applications, mobile and embedded interfaces, and ubiquitous computing. This course provides in-depth, hands-on experience with real world application of the iterative user-centered process including contextual inquiry, task analysis, design ideation, rapid prototyping, interface evaluation, and reporting usability findings. (Cross-listed with CSCI 8266, ACMP 4260, HCC 8266).

**Prerequisite(s):** Required: C- or better in CIST 2500 and junior standing, or by permission of instructor. Recommended: C- or better in CSCI 4250 or ACMP 3330/ITIN 3330.

**CSCI 4300 DETERMINISTIC OPERATIONS RESEARCH MODELS (3 credits)**

This is a survey course of deterministic operations research models and algorithms. Topics include linear programming, network programming, and integer programming. (Cross-listed with CSCI 8306, MATH 4300, MATH 8306).

**Prerequisite(s):** MATH 2050 with a C- or better or permission of instructor.

**CSCI 4310 PROBABILISTIC OPERATIONS RESEARCH MODELS (3 credits)**

This is a survey course of probabilistic operations, research models and algorithms. Topics include Markov chains, queueing theory, inventory models, forecasting, and simulation. (Cross-listed with CSCI 8316, MATH 4310, MATH 8316).

**Prerequisite(s):** MATH 2050 and either MATH 4740 or MATH 8746 or STAT 3800 or STAT 8805 all with a C- or better or permission of instructor.

**CSCI 4320 COMPUTATIONAL OPERATIONS RESEARCH (3 credits)**

Survey of computational methods used in the solution of operations research problems. Some topics may include scripting to guide optimization software, constraint programming, heuristics and metaheuristics for optimization, basic machine learning algorithms, and simulation. (Cross-listed with MATH 4320, MATH 8326, CSCI 8326).

**Prerequisite(s):** MATH 3200 or CSCI 1620, and MATH 4300 each with a grade of C- or better or permission of instructor.

**CSCI 4350 COMPUTER ARCHITECTURE (3 credits)**

The course deals with: Computer evolution, top view of processor design, cache memory and organization, hierarchical memory design and management, performance metrics, RISC versus CISC architecture, and pipeline computer design and architecture. The course also covers analytic design alternatives as needed.

**Prerequisite(s):** CSCI 3710, CSCI 3320 or CSCI 8325 with C- or better.

**CSCI 4380 DIGITAL FORENSICS (3 credits)**

Digital forensics involves the preservation, identification, extraction, analysis and documentation of digital evidence stored on a variety of electronic devices. The aim of this course is to introduce students to acceptable approaches for collecting, analyzing and reporting data from a forensics investigation. Topics include: an introduction to digital forensics, data acquisition, first response, memory forensics, operating system forensics, and network forensics. Students will be required to perform several forensics analyses in a controlled lab environment, including acquiring forensically sound hard drive images, memory images and analyzing these using industry standard tools, such as Forensic Toolkit (FTK). The Digital Forensics class is designed for Cybersecurity, Computer Science and other qualified students to learn what actions are both appropriate and required for preserving, collecting and analyzing digital evidence in cases of intrusion, data theft or other cybercrimes. (Cross-listed with CYBR 4380).

**Prerequisite(s):** CYBR 3600 or CIST 3600; CSCI 3550 or ISQA 3400; CYBR 2600 or CYBR 3350 or CYBR 3370.

**CSCI 4430 QUANTUM COMPUTING AND CRYPTOGRAPHY (3 credits)**

The course builds an understanding of exciting concepts behind quantum computing and quantum cryptography. In doing so it will introduce the principles of qubits, superposition, entanglement, teleportation, measurement, quantum error correction, quantum algorithms such as quantum Fourier transformation, Shor's algorithm and Grover's algorithm, quantum key exchange, quantum encryption, and secure quantum channels that are built using these principles. It will also discuss advantages of quantum computing and cryptography over classical computing and cryptography and limitations thereof. The students will come out with a working understanding of the field of quantum computing and quantum cryptography. During the course, students will also implement several of the quantum algorithms. (Cross-listed with CYBR 8436, CYBR 4430).

**Prerequisite(s):** Co-requisites: CYBR 3570 or CSCI 4560; or Instructor permission.

**CSCI 4440 INTRODUCTION TO PARALLEL COMPUTING (3 credits)**

This course is an introduction to parallel computing, that is using multiple processors to execute algorithms. Topics discussed include: classification of parallel computers; shared-memory versus message passing; forms of parallelism; measures of performance; designing parallel algorithms; parallel programming and parallel languages; synchronization constructs; and operating systems for parallel computers. (Cross-listed with CSCI 8446)

**Prerequisite(s):** CSCI 4500, which may be taken concurrently, with C- or better.

**CSCI 4450 PRINCIPLES OF ARTIFICIAL INTELLIGENCE (3 credits)**

An introduction to artificial intelligence. The course will cover topics such as machine problem-solving, uninformed and informed searching, propositional logic, first-order logic, approximate reasoning, temporal reasoning, planning under uncertainty, and machine learning. (Cross-listed with CSCI 8456).

**Prerequisite(s):** CSCI 3320 with C- or better.

**CSCI 4470 PATTERN RECOGNITION (3 credits)**

Structures and problems of pattern recognition. Mathematics model of statistical pattern recognition, multivariate probability, Bay's decision theory, maximum likelihood estimation, whitening transformations. Parametric and non-parametric techniques, linear discriminant function, gradient-descent procedure, clustering and unsupervised learning, and feature selection algorithms. (Cross-listed with CSCI 8476).

**Prerequisite(s):** CSCI 1620 with C- or better, and MATH 2050. Recommended: MATH 4740/8746 or STAT 3800/8805.

**CSCI 4480 ALGORITHMS FOR ROBOTICS (3 credits)**

This course provides an introduction to software techniques and algorithms for autonomously controlling robots using software programs called controllers. Students will be taught how to program and use software controllers on simulated as well as physical robots. (Cross-listed with CSCI 8486).

**Prerequisite(s):** CSCI 3320 with C- or better. CSCI 4450/8456 is a recommended but not essential pre-requisite.

**CSCI 4500 OPERATING SYSTEMS (3 credits)**

Operating system principles. The operating system as a resource manager; I/O programming, interrupt programming and machine architecture as it relates to resource management; memory management techniques for uni-multiprogrammed systems; process description and implementation; processor management (scheduling); I/O device, controller, and channel management; file systems. Operating system implementation for large and small machines. (Cross-listed with CSCI 8506).

**Prerequisite(s):** CSCI 3710, CSCI 3320/8325, MATH 1950, and CSCI 4350/8356 with C- or better.

**CSCI 4560 NUMBER THEORY & CRYPTOGRAPHY (3 credits)**

An overview of one of the many beautiful areas of mathematics and its modern application to secure communication. The course is ideal for any student who wants a taste of mathematics outside of, or in addition to, the calculus sequence. Topics to be covered include: prime numbers, congruences, perfect numbers, primitive roots, quadratic reciprocity, sums of squares, and Diophantine equations. Applications include error-correcting codes, symmetric and public key cryptography, secret sharing, and zero knowledge proofs. (Cross-listed with CSCI 8566, MATH 4560, MATH 8566).

**Prerequisite(s):** MATH 2230 with a C- or better or MATH 2030 with a C- or better or CSCI 2030 with a C- or better or permission of instructor

**CSCI 4620 3D COMPUTER GRAPHICS (3 credits)**

An introduction to the generation and rendering of 3D scenes using both the GPU and the CPU. The course begins by introducing 3D modeling, shading, and animation in industry-standard 3D software. The course then covers how to code rendering algorithms using both rasterizing (GPU-based) and ray tracing (CPU-based). (Cross-listed with CSCI 8626).

**Prerequisite(s):** CSCI 2240, CSCI 3320, and MATH 2050

**CSCI 4650 INTRODUCTION TO CLOUD COMPUTING (3 credits)**

This course is an introduction to cloud computing. The students will learn about core concepts of cloud computing such as cloud models (IaaS, PaaS, SaaS, etc.), deployment models (public, private, hybrid), cloud infrastructures (compute, networking, storage), cloud services (VMs, serverless, object storage, cache, CDN, etc.), and big-data driven systems. This course will revisit essential topics in CS-related courses such as data structure, operating systems, and distributed systems and show how they are utilized and applied in diverse cloud computing technologies and systems including Hadoop, Spark, and distributed databases. After taking this course, students will have basic knowledge of cloud computing and hand-on experiences with diverse projects (including cloud system demos) that utilize diverse and heterogeneous cloud resources. (Cross-listed with CSCI 8656).

**Prerequisite(s):** CSCI 3550 and CSCI 4500

**CSCI 4660 AUTOMATA, COMPUTABILITY, AND FORMAL LANGUAGES (3 credits)**

This course presents a sampling of several important areas of theoretical computer science. Definition of formal models of computation, and important properties of such models, including finite automata and Turing machines. Definition and important properties of formal grammars and their languages. Introduction to the formal theories of computability and complexity. (Cross-listed with CSCI 8666, MATH 4660, MATH 8666).

**Prerequisite(s):** MATH 2030. Recommended: CSCI 3320/CSCI 8325.

**CSCI 4700 COMPILER CONSTRUCTION (3 credits)**

Assemblers, interpreters and compilers. Compilation of simple expressions and statements. Analysis of regular expressions. Organization of a compiler, including compile-time and run-time symbol tables, lexical scan, syntax scan, object code generation and error diagnostics. (Cross-listed with CSCI 8706).

**Prerequisite(s):** CSCI 3320 and CSCI 4220 with C- or better. Recommended: CSCI 4500.



**CSCI 4830 INTRODUCTION SOFTWARE ENGINEERING (3 credits)**

Basic concepts and major issues of software engineering, current tools and techniques providing a basis for analyzing, designing, developing, maintaining and evaluating the system. Technical, administrative and operating issues. Privacy, security and legal issues. (Cross-listed with CSCI 8836).

**Prerequisite(s):** CSCI 3320 with C- or better.

**CSCI 4850 DATABASE MANAGEMENT SYSTEMS (3 credits)**

Basic concepts of data base management systems (DBMSs). The relational, hierarchical and network models and DBMSs which use them. Introduction to data base design. (Cross-listed with CSCI 8856).

**Prerequisite(s):** CSCI 3320 or equivalent with C- or better.

**CSCI 4890 DATA WAREHOUSING AND DATA MINING (3 credits)**

This course provides students with a theoretical foundation and practical methods for designing and constructing data warehouse and implementing data mining. After covering the essential concepts, issues, techniques to build an effective data warehouse, this course emphasizes the various techniques of data mining, such as association, classification, clustering and prediction for on-line analyses within the framework of data warehouse architectures. This course gives students an opportunity to undertake a real-life data analysis project. (Cross-listed with ISQA 4890).

**Prerequisite(s):** ISQA 3310 or CSCI 4850

**CSCI 4900 INTERNET SYSTEMS DEVELOPMENT (3 credits)**

This course focuses on contemporary techniques and technologies in the design, development, and integration of web-enabled information systems. This is a rapidly moving, hands-on course that mirrors real-world development of internet-based applications.

**Prerequisite(s):** CSCI 1620, CSCI 2850, (recommended) CSCI 3830, CSCI 4830 with C- or better.

**CSCI 4950 INTERNSHIP IN COMPUTER SCIENCE (1-3 credits)**

The purpose of this course is to provide students with opportunities to apply their academic studies in non-academic environments such as those found in business, industry and other non-academic organizations. The student interns will sharpen their academic focus and develop better understanding of non-academic application areas. The course is intended primarily for juniors and seniors in computer science.

**Prerequisite(s):** Permission of the computer science program chair.

**CSCI 4970 CAPSTONE PROJECT (3 credits)**

The Capstone Project completes a Computer Science student's undergraduate experience. Students will work on a team-based real-world project, practicing software engineering skills and applying fundamental computer science principles acquired throughout their undergraduate study.

**Prerequisite(s):** CSCI 4830 with C- or better; Senior standing in Computer Science. Not open to non-degree graduate students.

**CSCI 4980 TOPICS IN COMPUTER SCIENCE (3 credits)**

This is a variable topic course in computer science at the senior/graduate level. Topics not normally covered in the computer science degree program, but suitable for senior/graduate-level students can be offered. (Cross-listed with CSCI 8986).

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.

**CSCI 4990 INDEPENDENT STUDIES (1-3 credits)**

A variable credit course for the junior or senior who will benefit from independent reading assignments and research type problems. Independent study makes available courses of study not available in scheduled course offerings. The student wishing to take an independent study course should find a faculty member willing to supervise the course and then submit, for approval, a written proposal (including amount of credit) to the Computer Science Undergraduate Program Committee at least three weeks prior to registration.

**Prerequisite(s):** Written permission required. Independent study proposals must be approved by the Undergraduate Program Committee.

# Construction Engineering (CONE)

## Construction Engineering Undergraduate Courses

**CONE 103 INTRODUCTION TO CONSTRUCTION ENGINEERING (1 credit)**

Introduction to the organization and terminology of construction engineering. Overview of technical and management skills required to succeed in the construction engineering profession.

**CONE 206 ENGINEERING ECONOMICS (3 credits)**

Introduction to methods of economics comparisons of engineering alternatives: time value of money, depreciation, taxes, concepts of accounting, activity-based costing, ethical principles, civics and stewardship, and the importance to society.

**Prerequisite(s):** Sophomore Standing.

**CONE 211 CONSTRUCTION BUSINESS METHODS (3 credits)**

Business concepts and practices used by construction contractors. The construction industry, management principles, forms of business ownership, company organization, construction contracts, estimating and bidding, business ethics, bonds and insurance, financial statements, cost accounting, equipment management, planning and scheduling, labor relations and personnel management.

**Prerequisite(s):** CONE 103 or CNST 131 or AREN 1010

**CONE 221 GEOMETRIC CONTROL SYSTEMS (3 credits)**

Introduction to the theory and application of mensuration and geometric information processing in civil engineering. Measurement of distance, direction, elevation and location using mechanical, electronic and satellite systems. Collection of field data and error propagation. Elementary geometric data bases for design, construction, operation and control of civil works.

**Prerequisite(s):** MATH 1950

**CONE 319 CONSTRUCTION METHODS AND EQUIPMENT (3 credits)**

Characteristics, capabilities and selection of equipment and methods used in the building construction industry. Estimating job production, equipment production rates, machine operating costs, earth-moving equipment, hoisting equipment, operations analysis, and use of various other construction methods and equipment.

**Prerequisite(s):** CONE 206

**CONE 378 CONSTRUCTION ESTIMATING I (3 credits)**

Preparation of detailed cost estimates based on contract documents. Identify and analyze cost components of building and site scopes of work to perform detailed quantity take-offs. Apply labor, material, and equipment pricing from RS Means. Use production rates and quantity takeoffs to prepare a preliminary construction schedule. Complete quantity takeoffs from 2D plans and from 3D BIM software models. (Cross-listed with CNST 378).

**Prerequisite(s):** CNST 112.

**CONE 414 ACCIDENT PREVENTION IN CONSTRUCTION (3 credits)**

Safety practices in the construction industry and the national safety and health standards of the Occupational Safety and Health Administration (OSHA). The theory of accidents; personal attitudes; statistics and environment; accident occurrence; prevention and inspection in connection with the construction of buildings, highways, and associated heavy facilities. Nationally accepted safety codes and their relationship to accepted practices in the industry.

**Prerequisite(s):** Senior standing and CONE 211 and CONE 319



**CONE 416 WOOD/CONTEMPORARY MATERIALS DESIGN (3 credits)**

Design of structural timber, beams, columns, and connections. Introduction to applicable design philosophies and codes. Overview of materials design. Masonry, aluminum, and contemporary materials such as plastics and fiber reinforced systems and composite material groups. Design considerations, cost and constructability analysis. (Cross-listed with CONE 816)

**Prerequisite(s):** CIVE 341

**CONE 417 FORMWORK SYSTEMS (3 credits)**

Design of structural timber, beams, columns, and connections. Introduction to applicable design philosophies and codes. Overview of materials design, masonry, aluminum, and contemporary materials such as plastics and fiber reinforced systems and composite material groups. Design considerations, cost and constructability analysis. (Cross-listed with CONE 817)

**Prerequisite(s):** CONE 416; Pre/Co-req.: CIVE 441

**CONE 450 SUSTAINABLE CONSTRUCTION (3 credits)**

Sustainable construction and its application to the green building industry. Topics include: the LEED certification process, sustainable building site management, efficient wastewater applications, optimizing energy performance, indoor environmental issues, performance measurement/verification, recycled content and certified renewable materials. (Cross-listed with CONE 850)

**Prerequisite(s):** Senior standing

**CONE 459 INTRODUCTION TO BUILDING INFORMATION MODELING (3 credits)**

This course instructs CAD users on the effective use of Building Information Model (BIM) for integration of design, document and construction estimate. Topics include: model-based 3D design, file formats, interoperability, and MEP modeling. (Cross-listed with CONE 859)

**Prerequisite(s):** CNST 112, or Graduate standing in AREN, CIVE, CNST or CONE.

**CONE 466 HEAVY AND/OR CIVIL ESTIMATING (3 credits)**

Estimating techniques and strategies for heavy and/or civil construction. Unit pricing, heavy and civil construction takeoffs and estimating, equipment analysis, overhead cost and allocations, estimating software and government contracts. (Cross-listed with CONE 866).

**Prerequisite(s):** CONE 319 and CONE 378 and CONE 485

**CONE 476 PROJECT BUDGETS AND CONTROLS (3 credits)**

The basic systems related to revenues and expenses associated with record keeping of construction contracts. Managerial accounting related to planning and control of construction projects. (Cross-listed with CNST 476, CONE 876).

**Prerequisite(s):** CNST 378 and CONE 206.

**CONE 481 HIGHWAY & BRIDGE CONSTRUCTION (3 credits)**

The methods and equipment required in the construction of roads and bridges. Methods and equipment necessary for roads and bridges. Substructure and superstructures, precast and cast-in-place segments, and standard and specialized equipment. (Cross-listed with CONE 881)

**Prerequisite(s):** CONE 319 or CNST 241

**CONE 482 HEAVY AND/OR CIVIL CONSTRUCTION (3 credits)**

History, theory, methods, and management principles of planning and executing heavy and/or civil projects. Emerging and new equipment capabilities. Economical use of equipment and management of costs associated with production. (Cross-listed with CNST 482, CNST 882, CONE 882).

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CONE 483 SUPPORT OF EXCAVATION (3 credits)**

The design and placement of excavation supports according to OSHA requirements and industry standards. A variety of routine to moderately complex support systems. Open excavations, sheet piling and cofferdams. Soil mechanics, lateral loads, hydrology, and pumping methods. (Cross-listed with CONE 883)

**Prerequisite(s):** CET 2180 and CET 3290

**CONE 485 CONSTRUCTION PLANNING, SCHEDULING, AND CONTROLS (3 credits)**

Planning and scheduling a project using the critical path methods (CPM) with computer applications. Project pre-planning, logic networks, precedence diagrams, time estimates, critical path, float time, crash programs, scheduling, short interval schedules, pull planning, and monitoring project activities. (Cross-listed with CNST 485, CNST 885, CONE 885)

**Prerequisite(s):** CNST 378. Not open to non-degree graduate students.

**CONE 489 CONSTRUCTION ENGINEERING CAPSTONE (3 credits)**

CONE 4890 embodies the cumulative CONE experience in a project format and uses teams to simulate actual construction enterprises operating in cooperative and competitive situations which replicate the construction industry. An integrated, comprehensive project; to be taken in the term prior to graduation.

**Prerequisite(s):** Senior standing

**CONE 495 INTERNSHIP (3 credits)**

Participation in a full-time summer internship associated with a construction-related entity. Includes weekly assignments and a final presentation designed to foster interactions between the intern and the business side of the entity. General topics include personnel and time management, structuring business plans, scheduling work, finance and budgets, marketing plans, contracts, risk analysis, and communication and leadership. (Cross-listed with CNST 495).

**Prerequisite(s):** Permission of instructor, Letter of application, Letter of agreement from industry mentor. Not open to non-degree graduate students.

**CONE 498 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT (1-6 credits)**

Individual or small group study of special topics in construction management. Topic varies. A signed student-instructor learning contract is required. (Cross-listed with CNST 498, CNST 898)

## Construction Management (CNST)

### Construction Management Undergraduate Courses

**CNST 112 CONSTRUCTION COMMUNICATIONS (3 credits)**

Development of communication skills including understanding of contract documents, working drawings, technical terminology, graphic symbols, and abbreviations. Fundamentals of drafting principles, sketching, and dimensioning techniques.

**CNST 131 INTRODUCTION TO THE CONSTRUCTION INDUSTRY (2 credits)**

Introduction to basic management principles and practices for labor, materials, machinery, and budgets.

**CNST 225 INTRODUCTION TO BUILDING INFORMATION MODELING (3 credits)**

Introduction to Building Information Modeling (BIM) concepts and techniques. Explore the use of the Revit Architecture platform to create detailed 3D models of construction projects and other BIM-related topics such as clash detection and point-cloud models.

**Prerequisite(s):** CNST 112

**CNST 241 HORIZONTAL CONSTRUCTION (3 credits)**

Introduction to earthmoving equipment and methods, labor, productivity, and economic aspects of excavation, material transportation, and fill work. Introduction to the financial principles of equipment ownership and operation.

**Prerequisite(s):** MATH 1950

**CNST 242 VERTICAL CONSTRUCTION (3 credits)**

Focus on vertical structures, from grade to topping out, with an emphasis on materials and material handling equipment. Includes the assembly process for a variety of applications including cast-in-place concrete, steel erection, wood framing, precast concrete, masonry structural elements, and material finishing.

**Prerequisite(s):** MATH 1950

**CNST 251 CONSTRUCTION MATERIALS AND SPECIFICATIONS (3 credits)**

Introduction to construction materials and proper methods of specifying to achieve design and construction goals, safety and inspection, and to meet zoning code and environmental requirements. Physical, mechanical and aesthetic properties of soils, concrete, masonry, metals, plastics and other materials will be studied as they relate to in-service conditions, acceptability, and performance.

**Prerequisite(s):** MATH 1950

**CNST 252 CONSTRUCTION MATERIALS AND TESTING (3 credits)**

Introduction to basic materials used in construction. Laboratory testing and evaluation of material properties of soil, aggregate, and concrete.

**Prerequisite(s):** MATH 1950; parallel registration in CNST 241 is recommended. Laboratory testing procedures emphasizing testing of aggregates, soil, and concrete.

**CNST 305 BUILDING ENVIRONMENTAL TECHNICAL SYSTEMS I (3 credits)**

Characteristics and performance of buildings with respect to thermal and psychometric environment in buildings related to human comfort, heat gain/heat loss, ventilation, natural energy systems and sustainable design principles, and plumbing and life safety systems in the built environment.

**Prerequisite(s):** PHYS 1050

**CNST 306 ELECTRICAL SYSTEMS (3 credits)**

Fundamentals of electric power generation and distribution, service, and circuits in buildings with an emphasis on electrical equipment and systems, lighting principles and applications, and fire protection systems. Review of National Electric Code.

**Prerequisite(s):** MATH 1950, PHYS 1050.

**CNST 331 STRUCTURAL MECHANICS (3 credits)**

Introduction to various external force systems, and their resulting internal forces and deformations, which act on structural elements.

**Prerequisite(s):** Not open to non-degree graduate students.

**CNST 332 STRUCTURAL OPTIMIZATION (3 credits)**

Optimization of key properties of elements and systems of building structures: force, geometric, and material.

**Prerequisite(s):** CNST 331. Not open to non-degree graduate students.

**CNST 378 CONSTRUCTION ESTIMATING I (3 credits)**

Preparation of detailed cost estimates based on contract documents. Identify and analyze cost components of building and site scopes of work to perform detailed quantity take-offs. Apply labor, material, and equipment pricing from RS Means. Use production rates and quantity takeoffs to prepare a preliminary construction schedule. Complete quantity takeoffs from 2D plans and from 3D BIM software models. (Cross-listed with CONE 378).

**Prerequisite(s):** CNST 112.

**CNST 379 CONSTRUCTION ESTIMATING II (3 credits)**

Continuation of CNST 3780 with emphasis on the determination of total project cost and preparation of complete bid proposals for self-performed and subcontracted commercial projects. Evaluation and analysis of subcontractor bids to determine overall project costs by completing a hard bid simulation scenario. Exploration of contract delivery methods and their effect on overall project cost.

**Prerequisite(s):** CNST 378

**CNST 405 MECHANICAL ESTIMATING (3 credits)**

Application of estimating principles, quantity take-off, bidding strategies, and computerization to the specialty field of mechanical construction.

**Prerequisite(s):** CNST 305 and CNST 306 and CNST 379

**CNST 406 ELECTRICAL ESTIMATING (3 credits)**

Application of estimating principles, quantity take-off, bidding strategies, and computerization to the specialty field of electrical construction.

**Prerequisite(s):** CNST 305, CNST 306 and CNST 379.

**CNST 411 PROJECT ADMINISTRATION (3 credits)**

Ownership and administration of companies focusing on documentation and specifications, contracts, take-offs, estimating, bidding, bonds, insurance, project management and administration, scheduling, time and cost management, labor law and labor relations, and project safety. (Cross-listed with CNST 811).

**Prerequisite(s):** Junior or Senior standing. Not open to non-degree graduate students.

**CNST 415 MECHANICAL/ELECTRICAL PROJECT MANAGEMENT (3 credits)**

Fundamentals of project management within the mechanical and electrical contracting industry. Codes, contract documents, productivity, coordination, project control and administration, scheduling, safety, and project closeout, from a specialty contracting perspective. (Cross-listed with CNST 815).

**Prerequisite(s):** CNST 305, CNST 306 and CNST 379. CNST 405 and CNST 406 are recommended.

**CNST 420 PROFESSIONAL PRACTICE AND ETHICS (3 credits)**

Examination of professional practice considering the perspectives of designers and the contractors and their respective relationships to society, specific client types, and other collaborators in the design and construction fields. Focus on ethics, professional communication and responsibility, professional organization, office management, environmental stewardship, professional registration, and owner-designer-contractor relationships. (Cross-listed with CNST 820).

**Prerequisite(s):** CNST 378 or CONE 378. Not open to non-degree graduate students.

**CNST 425 ALTERNATIVE PROJECT DELIVERY METHODS (3 credits)**

Historical and current project delivery methods (PDM) are explored. Procurement strategies, contractual arrangements, and compensation methods are also discussed in conjunction with risks, costs, and legal and ethical issues that need to be considered when determining which system is best for a particular project. (Cross-listed with CNST 825)

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CNST 434 THE DESIGN-BUILD PROJECT DELIVERY SYSTEM (3 credits)**

The organizational, managerial, ethical and legal principles involved in design-build as a project delivery system. Advantages and disadvantages, growth, merits, and criticism of the design-build system. (Cross-listed with CNST 834)

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CNST 436 INTENT AND APPLICATION OF INTERNATIONAL BUILDING CODE (3 credits)**

Fundamentals of how to research, interpret, and apply building code requirements to the design and construction of both new and renovated structures. (Cross-listed with CNST 836)

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CNST 440 BUILDING INFORMATION MODELING (BIM) II (3 credits)**

Advance topics in building information modeling, including structural and MEP modeling, 4/5 dimensional construction animations and visualization. Good knowledge of Revit Architectural Modeling and knowledge of construction estimating and scheduling is required before registering in this class. (Cross-listed with CNST 840)

**Prerequisite(s):** CNST 225 and CNST 378.

**CNST 442 HEALTHCARE DESIGN AND CONSTRUCTION (3 credits)**

Introduction to the design and construction of healthcare facilities. Healthcare regulations and standards, infection control, interim life safety measures, code requirements, medical equipment selection and coordination, healthcare design and construction techniques, and best practices will be addressed. Provides guidance in preparation for the Certified Healthcare Constructor credential offered by the American Healthcare Association. (Cross-listed with AREN 8426, AREN 4420, CNST 842).

**Prerequisite(s):** Senior or graduate standing

**CNST 444 CONSTRUCTION SITE SAFETY MANAGEMENT (3 credits)**

Introduction to safety management for project engineers, project managers, safety teams, and company safety officers. Addresses basic accident and injury models, human accident costs, safety behavior, ethical issues in safety, workers' compensation and EMR, job safety analysis (JSA), project site safety audits, safety promotion and training, emergency planning and response, safety management programs and training, and OSHA record-keeping and reporting. (Cross-listed with CNST 844).

**Prerequisite(s):** CNST 241 or CONE 319. Not open to non-degree graduate students.

**CNST 476 PROJECT BUDGETS AND CONTROLS (3 credits)**

The basic systems related to revenues and expenses associated with record keeping of construction contracts. Managerial accounting related to planning and control of construction projects. (Cross-listed with CONE 476, CONE 876).

**Prerequisite(s):** CNST 378 and CONE 206.

**CNST 480 PRODUCTIVITY AND HUMAN FACTORS IN CONSTRUCTION (3 credits)**

Motivation and productivity improvement methods for management in typical job environments. Methods to improve working environments in the field and office. Procedures and mechanisms to implement human behavior and ergonomics concepts for enhanced productivity and safety. (Cross-listed with CNST 880).

**Prerequisite(s):** CNST 379 and senior standing. Not open to non-degree graduate students.

**CNST 482 HEAVY AND/OR CIVIL CONSTRUCTION (3 credits)**

History, theory, methods, and management principles of planning and executing heavy and/or civil projects. Emerging and new equipment capabilities. Economical use of equipment and management of costs associated with production. (Cross-listed with CNST 882, CONE 482, CONE 882).

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CNST 485 CONSTRUCTION PLANNING, SCHEDULING, AND CONTROLS (3 credits)**

Planning and scheduling a project using the critical path methods (CPM) with computer applications. Project pre-planning, logic networks, precedence diagrams, time estimates, critical path, float time, crash programs, scheduling, short interval schedules, pull planning, and monitoring project activities. (Cross-listed with CNST 885, CONE 485, CONE 885)

**Prerequisite(s):** CNST 378. Not open to non-degree graduate students.

**CNST 486 CONSTRUCTION MANAGEMENT SYSTEMS (3 credits)**

Application of selected topics in systems analysis (operations research). Simulation, mathematical optimization, queuing theory, Markov decision processes, econometric modeling, neural networks, data envelopment analysis, decision analysis, and analytic hierarchy processes as used in the industry. (Cross-listed with CNST 886).

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CNST 488 RESIDENTIAL CONSTRUCTION AND REAL ESTATE DEVELOPMENT (3 credits)**

Application of various strategies to real estate development including community and residential design, planning, site selection, land development, marketing and customer service. Methods used by construction companies to analyze, bid, and market their developments to customers through the preconstruction and bidding process. (Cross-listed with CNST 888).

**Prerequisite(s):** CNST 379.

**CNST 489 SENIOR CONSTRUCTION PROJECT (3 credits)**

Execution of a project from conceptual design and location through estimating, bidding, site layout, planning and scheduling, cost control, records management, and project completion and documentation. Capstone course.

**Prerequisite(s):** CNST 379; CNST 420; CNST 476 ; CNST 485. Pre/Coreq: CNST 480.

**CNST 495 INTERNSHIP (3 credits)**

Participation in a full-time summer internship associated with a construction-related entity. Includes weekly assignments and a final presentation designed to foster interactions between the intern and the business side of the entity. General topics include personnel and time management, structuring business plans, scheduling work, finance and budgets, marketing plans, contracts, risk analysis, and communication and leadership. (Cross-listed with CONE 495).

**Prerequisite(s):** Permission of instructor, Letter of application, Letter of agreement from industry mentor. Not open to non-degree graduate students.

**CNST 498 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT (1-6 credits)**

Individual or small group study of special topics in construction management. Topic varies. A signed student-instructor learning contract is required. (Cross-listed with CNST 898, CONE 498).

## Counseling (COUN)

### Counseling Undergraduate Courses

**COUN 2020 INTRODUCTION TO COUNSELING THEORY AND PSYCHOTHERAPY (3 credits)**

This course introduces the major theoretical paradigms and concepts of psychotherapy that are taught in graduate level counseling programs and utilized by professional counselors and allied mental health professionals in the provision of mental health services. Selected readings, video-based lectures, discussion boards, case studies, written assignments, and exams are utilized as means of introducing these concepts and their use and applicability with clients within and across different therapeutic contexts (i.e., individual, group, family, crisis).

**Prerequisite(s):** Completion of an introductory course in social sciences, human services, or human development. Consult your primary advisor, program coordinator, and/or program chair/director to determine viability of course for your plan of study.

**COUN 4000 SPECIAL STUDIES IN COUNSELING (1-6 credits)**

This course is designed to allow candidates to pursue independent study of a topic under the direction and guidance of a faculty member. Topics studied and the nature of the learning activities are mutually agreed upon by the candidate and instructor. This course will prepare graduate (or undergraduate) candidates as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world.

**COUN 4010 MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (3 credits)**

This course explores the role that educators and school mental health professionals play in identifying the risk factors and warning signs of children and youth with mental health concerns. Students will understand the risk and protective factors at the individual, family, school, and community level as related to children and youth's mental health. The course will provide an overview of externalizing and internalizing disorders as well as school-based and community-based treatments and interventions. (Cross-listed with COUN 8016, SPED 4010, SPED 8016).  
**Prerequisite(s):** SPED 1500 or SPED 3800, TED 2300 prior to or concurrent, Minimum 2.75 GPA. Not open to non-degree graduate students.

**COUN 4300 COUNSELING TECHNIQUES I (1 credit)**

This course will present the counseling process, knowledge of beginning skills development and application of techniques related to a specific approach. Topics may include Adlerian counseling (specified in this syllabus), anger management, play therapy, solution focused, cognition, and other topics as needed.. (Cross-listed with COUN 8306)  
**Prerequisite(s):** Not open to non-degree students. Must take prior to practicum.

**COUN 4310 COUNSELING TECHNIQUES II (1 credit)**

This course will present the counseling process, knowledge of beginning skills development and application of techniques related to a specific approach. Topics may include Rational Emotive Behavior Therapy (REBT) (specified in this syllabus), anger management, play therapy, solution focused, cognition, and other topics as needed. (Cross-listed with COUN 8316)

**Prerequisite(s):** Admission to students seeking a Bachelor degree in General Studies Option One Major with a concentration in Behavioral Health. Not open to non-degree graduate students

**COUN 4400 COUNSELING TECHNIQUES III (1 credit)**

This course will assist candidates in developing more systematic integration of previously learned information and skills and the application to specific counseling situations related to various approaches. Topics may include Solution Focused Counseling - SFC (specified in this syllabus), Dialectical Behavioral Therapy, anger management, art therapy, play therapy, solution focused, cognition, and other topics as needed. (Cross-listed with COUN 8406)

**Prerequisite(s):** Admission to students seeking a Bachelor degree in General Studies Option One Major with a concentration in Behavioral Health. Not open to non-degree graduate students.

**COUN 4510 TREATMENT ISSUES IN CHEMICAL DEPENDENCY (3 credits)**

This course addresses chemical dependency treatment issues including denial, minimization, relapse and its prevention, resistance, family dynamics, poly-substance abuse, co-occurring disorders, spirituality and the influence of self-help groups. The education will include the clinical treatment needs of individuals suffering from chemical dependency, taking into consideration diversity, gender, culture and lifestyle. (Cross-listed with COUN 8516, SOWK 4510, SOWK 8516).

**Prerequisite(s):** Admission to counseling program or social work programs or permission of instructor. Not open to non-degree graduate students.

**COUN 4680 MEDICAL AND PSYCHOSOCIAL ASPECTS OF SUBSTANCE USE DISORDERS (3 credits)**

This course introduces students to substance use disorders and their impact on the individual, family, and society. It covers psychopharmacology, alcohol and drug interactions, drug classifications, theories of substance use disorders, various models of treatment, vulnerable populations, and ethical and legal issues. (Cross-listed with SOWK 4680, SOWK 8686, COUN 8686).

**COUN 4690 ASSESSMENT AND CASE MANAGEMENT IN SUBSTANCE USE DISORDERS (3 credits)**

This course focuses on assessment of clients and their environment, and diagnosis and referral for substance use disorder treatment. Emphasis is given to assessment instruments, treatment levels, treatment planning, case management, and social justice. (Cross-listed with COUN 8696, SOWK 4690, SOWK 8696).

## Criminology and Criminal Justice (CRCJ)

### Criminology and Criminal Justice Undergraduate Courses

**CRCJ 1010 SURVEY OF CRIMINAL JUSTICE (3 credits)**

This course is designed to provide an overview of the justice process and the criminal justice system in general. Concepts of crime and justice are discussed as well as the rights of individuals in a democratic society. The law enforcement, judicial, juvenile justice, and corrections systems are explored.

**Distribution:** Social Science General Education course

**CRCJ 2030 POLICE AND SOCIETY (3 credits)**

This course is designed to explore the role of the police in American society. Attention is given to the origins of policing, the nature of police organizations and police work, and patterns of relations between the police and the public. The values of a democratic society as they affect the law enforcement role are discussed.

**Prerequisite(s):** CRCJ 1010, or permission

**CRCJ 2110 CRIMINAL COURT SYSTEM (3 credits)**

The purpose of this course is to give you a greater understanding of the U.S. criminal courts system. In this course we will cover topics such as judges, lawyers, litigants, criminal and civil procedure, state and federal courts, and theories of judicial decision making. We will analyze these concepts, actors and institutions from a variety of perspectives. The course will include discussions of the constitutional rules and case law as they apply to the courts process.

**Prerequisite(s):** CRCJ 1010, or permission

**CRCJ 2210 SURVEY OF CORRECTIONS (3 credits)**

This course provides an overview of the American criminal justice system correctional responses to criminal offending. We explore the history, philosophy, and law underlying corrections. We will focus on understanding risks and needs of offenders, treatment options and types of correctional sanctions in the U.S. These include, but are not limited to probation, jail, intermediate sanction, prison and the death penalty.

**Prerequisite(s):** CRCJ 1010, or permission

**CRCJ 2220 COMMUNITY-BASED CORRECTIONS (3 credits)**

This course is designed to familiarize the student with the most recent developments in community-based corrections. Discussion will focus on the issues related to implementation, management, effectiveness and challenges of community-based programs. Students will be provided a broad overview of the structure and functions of Community-based Corrections. By the end of the course, students should expect to understand the best practices in community corrections.

**Prerequisite(s):** CRCJ 1010, or permission

**CRCJ 2410 CRIMINAL PROCEDURE (3 credits)**

This course deals with the legal aspects of the investigation, arrest processes, and criminal trial proceedings, as well as the rules governing the admissibility of evidence in criminal court proceedings.

**Prerequisite(s):** CRCJ 1010, or permission



**CRCJ 2510 RESEARCH METHODS (3 credits)**

The primary goal of this course is to facilitate your growth as both consumers and producers of research. We will explore a variety of methodologies (e.g., survey research/self-report, official stats/secondary data, quasi-experimental design, etc.) used in criminological and criminal justice research. Further, we will evaluate these methodologies within the context of design concerns such as: research purpose, operationalization, validity, reliability, and ethics.

**Prerequisite(s):** CRCJ 1010, or instructor permission

**CRCJ 3000 APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (3 credits)**

A course on the use of data and statistical methods to explore and make inferences about society, while critically considering the influence of context and the powers and limitations of quantitative evidence. (Cross-listed with PA 3000, SOWK 3000).

**Prerequisite(s):** MATH 1120 or MATH 1130 or MATH 1220 or MATH 1300 or MATH 1320 or an ACT of 19, or above or permission from the department.

**CRCJ 3100 WRITING FOR CRIMINAL JUSTICE (3 credits)**

This is a writing course for all Criminology and Criminal Justice majors. Students will learn how to write effective cover letters, incident reports, position papers, and executive summaries.

**Prerequisite(s):** ENGL 1150, ENGL 1160, and CRCJ 1010. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**CRCJ 3310 CRIMINAL LAW (3 credits)**

This course will examine the development of the criminal law, the elements and types of criminal offenses, as well as principles of criminal culpability.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or permission

**CRCJ 3350 CRIMINOLOGY (3 credits)**

This course is about facts and frameworks. The facts that we are interested in are facts about criminal behavior and the frameworks are theories that organize these facts in a coherent fashion. As we learn about criminological facts and the theories that organize these facts we will pay attention to research so that we understand how these facts are developed and how these theories are tested. We will also try to draw out the policy implications of the various facts and theories that we address.

**Prerequisite(s):** ENGL 1150, and 45 credit hours; or instructor permission.

**CRCJ 3370 JUVENILE DELINQUENCY AND JUVENILE JUSTICE (3 credits)**

This course has been designed to provide and expose students to a broad base of information about juveniles, youth in need of supervision, youth crime and how these areas are handled within the juvenile justice system in the United States. This course will examine the juvenile justice system and the role of family, peers, school, courts, law enforcement, corrections, and the broader community as it pertains to the life of a juvenile.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours

**CRCJ 3380 POWER, PERCEPTION, AND PUNISHMENT (3 credits)**

This course examines how social attitudes and institutional structures influence the administration of justice in the United States. Students will explore how factors such as economic hardship, neighborhood decline, exposure to violence, and family disruption - often through incarceration - can contribute to long-term social and behavioral challenges. Students will also study the involvement of various racial and ethnic groups in the justice system, including their roles as victims, offenders, defendants, and professionals. Through the use of research and case studies, students will evaluate the broader consequences of these patterns and consider practical responses to improve outcomes within the justice system.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; OR instructor permission. Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**CRCJ 3390 WOMEN, CRIME AND JUSTICE (3 credits)**

This course focuses on women's experiences in the criminal justice system. The course will examine women's experiences as victims of crime, as offenders, as prisoners, and as criminal justice professionals. (Cross-listed with WGST 3390)

**Prerequisite(s):** Sophomore standing or instructor permission.

**Distribution:** U.S. Diversity General Education course

**CRCJ 3410 LAW AND THE BLACK COMMUNITY (3 credits)**

Law and the Black Community provides an in-depth examination of the racialized American legal process as it pertains to and affects African Americans in the U.S. From the formation of the U.S. Constitution to present day, this course analyzes intersections of race, law, politics and culture, and explores the administration of justice and Black experiences through a critical legal perspective. (Cross-listed with BLST 3410, PSCI 3410).

**Prerequisite(s):** BLST 1000 OR CRCJ 1010 OR Junior standing OR instructor permission.

**Distribution:** U.S. Diversity General Education course

**CRCJ 3970 INTERNSHIP IN CRIMINAL JUSTICE (3 credits)**

A minimum of 160 hours of experiential learning with criminal justice agencies. The internship program integrates learning with service. It allows students to learn occupational skills and competencies and develop professional relationships with organizations involved in the criminal justice sector, at the same time, students will apply criminological theories to their work. The internship prepares students to demonstrate the integration of professional ethics and values, knowledge and skills, and the capacity to think critically and constructively.

**Prerequisite(s):** CRCJ 1010, ENGL 1160, 75 credit hours completed, GPA of 2.5, and permission of instructor. Not open to non-degree graduate students.

**CRCJ 3980 RESEARCH INTERNSHIP (3 credits)**

This course will provide advanced student majors and minors with experience conducting research in the area of criminology and criminal justice. Students work under faculty supervision to complete research tasks that integrate learning with service. Tasks may include reviewing relevant literature, development of survey instrument(s), data collection, data entry and analysis, and presentation of findings.

**Prerequisite(s):** CRCJ 1010, 75 credit hours completed, GPA of 2.5, and permission of instructor.

**CRCJ 4000 MENTAL HEALTH AND THE CRIMINAL JUSTICE SYSTEM (3 credits)**

This course focuses on the intersection of individuals with mental health, substance abuse, and/or severe and persistent mental illness diagnoses and the criminal justice system. Students will examine how individuals become involved in the criminal justice system and how the criminal justice system and other social services respond to their involvement.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; OR instructor permission

**CRCJ 4060 CRIMINAL JUSTICE ETHICS (3 credits)**

The principal objectives of this course will focus on creating an awareness of the ethical issues and dilemmas present in the criminal justice system, as well as the development of a more informed ability or basis to address them.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours. Not open to non-degree graduate students.

**CRCJ 4130 SOCIOLOGY OF DEVIANT BEHAVIOR (3 credits)**

This course is designed to investigate the etiology of many forms of norm-violating conduct. Emphasis will be placed on rule-breaking behavior as defined in the criminal statutes. (Cross-listed with CRCJ 8136).

**Prerequisite(s):** Upper-division CRCJ major; CRCJ minor; CRCJ 1010 and jr/sr standing; or instructor permission.



**CRCJ 4210 BEHIND BARS: THE COMPLEX WORLD OF INSTITUTIONAL CORRECTIONS (3 credits)**

Dive deep into the intricate and often misunderstood world of institutional corrections. This course provides a comprehensive exploration of prisons and jails, both in the United States and internationally. Topics include gangs, riots, security measures and prison culture.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours.

**CRCJ 4400 DOMESTIC VIOLENCE (3 credits)**

This course examines the criminal justice system response to domestic violence/intimate partner violence. A focus on the interactions between battered victims and components of the criminal justice system, as well as the role of the community in addressing and preventing this violence serves as the foundation for this course. Students will also gain insight into factors contributing to the incidence of intimate partner violence, explore the background/history of domestic violence.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or permission

**CRCJ 4410 VICTIMOLOGY (3 credits)**

This course provides an introduction to the topics and issues that are pertinent to the study of victimology. Students will learn about the prevalence, predictors, and consequences of various forms of victimization, including child abuse, intimate partner violence, rape and sexual assault, stalking, and homicide over the life-course. In addition, students will learn about the nature of criminal justice victimization data, and the issues related to the measurement and costs of victimization.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or permission.

**CRCJ 4420 CHILD ABUSE AND NEGLECT (3 credits)**

This course addresses issues related to child abuse and neglect investigation, intervention and prevention efforts facilitated through criminal justice system processes. Course content discusses the history of child maltreatment, definitional challenges, statistical trends, physical and behavioral indicators, mandatory reporting, investigative processes, intervention strategies and prevention efforts.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or instructor permission

**CRCJ 4430 HUMAN TRAFFICKING (3 credits)**

This course is designed to provide students with a systematic introduction to the study of human trafficking. Students will learn about what constitutes human trafficking, theories of victimization as they apply to trafficking, debates about the language and definitions surrounding sex trafficking and prostitution. Students will discuss the prevalence, predictors, and consequences of various forms of trafficking and critically assess efforts related to measurement, intervention, and prevention.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or permission.

**CRCJ 4440 VICTIMS' RIGHTS AND SERVICES (3 credits)**

This course focuses on the experiences of victims of crime through the criminal justice system, from reporting the crime to case closure. Students will learn about the types of victim services and advocacy throughout various points of the criminal justice system (e.g., police, courts, corrections), as well as about the history of victims' rights and the development of victim services over time.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or permission

**CRCJ 4450 SEXUAL VIOLENCE (3 credits)**

This course will examine the complicated nature and dynamics of sexual violence. Students will learn about the nature and extent of sexual violence. Data and measurement issues will be addressed as well as the history of system responses to sexual violence and victimization.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours or instructor permission

**CRCJ 4510 VIOLENCE (3 credits)**

This course will examine the social, political and psychological aspects of violence. It will identify various analytical approaches to the study of violence: identifying violent groups, reviewing societal response to violence, and examining police and governmental responses to reduce or control violence. Please note that a core competency of this course is critical thinking. Critical thinking requires students to think through situations, facts, and issues in an open-minded and objective way in an effort to analyze and evaluate information in an informed manner.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or instructor permission

**CRCJ 4520 DRUGS AND CRIME (3 credits)**

Drugs and Crime is an introduction course to the major facts and issues concerning criminal justice and drug-taking behavior in America. It is specifically designed to provide the means for understanding (1) the multiple challenges that drug abuse brings to our society, (2) the drug control policies we have enacted to meet those challenges, (3) the range of international and domestic law enforcement efforts and drug control strategy, and (4) the systems of criminal justice that have been established to deal with the prosecution of drug law offenders.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours or instructor permission

**CRCJ 4530 SEXUAL OFFENDING (3 credits)**

In this course students will learn about sex offenses, sex offenders, and the responses of the criminal justice system. This course will examine applications of theory to sex offending, trends and patterns of behavior, characteristics of sex offenders, and the psychological and legal responses to sex crimes.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours or instructor permission

**CRCJ 4540 CRIMINAL INVESTIGATIONS (3 credits)**

This course examines the processes, practices, and people involved in the investigation of criminal acts, highlighting recent developments in policy, tactics and technology. We explore theoretical approaches to investigating various crimes, examining how aspects of each approach can benefit investigators. We will analyze, discuss, and learn how to complete thorough investigations that will ensure best chances for successful case prosecution in court.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or instructor permission

**CRCJ 4550 GANGS AND GANG CONTROL (3 credits)**

This course will examine criminal street gangs, including these gangs' members, activities, underlying dynamics, and the roles that drugs and sex trafficking play in gang activity. We will consider the history and proliferation of gangs in the United States, common characteristics of U.S. gangs across different regions, how gangs obtain their power and the connection between street gangs and prison gangs. Lastly, we will evaluate multiple methods employed by communities and law enforcement to control and defeat criminal street gangs.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours

**CRCJ 4560 HOMICIDE INVESTIGATIONS (3 credits)**

This course is designed to present an overview of the crime of homicide. Attention is given to homicide data, theories of why homicides occur, types of homicide, investigating/solving homicides, prosecuting homicide cases, and the impact on co-victims and society as a whole. Students will use critical thinking skills while exploring various investigative techniques.

**Prerequisite(s):** CRCJ 1010, ENGL 1150 and 45 credit hours; or instructor permission

**CRCJ 4570 CRIME DATA ANALYSIS (3 credits)**

Crime analysis is a profession and process in which a set of techniques are used to analyze data valuable to police agencies and their communities. Crime analysis is playing an increasingly important role in policing by helping agencies better allocate their resources. This course offers a background for students interested in crime analysis including history, administration, theory, and application, primarily at the local level. Since a crime analyst typically functions as a researcher in a law enforcement agency, students will learn how theories of criminology and policing are applied in crime analysis. This course outlines how crime analysis enhances effectiveness of policing efforts, highlighting data analysis techniques and their role in the crime reduction and prevention process.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or permission.

**CRCJ 4710 COMPARATIVE CRIMINAL JUSTICE SYSTEMS: ENGLAND (3 credits)**

This is a specialized course which provides a comparison of the criminal justice systems of the United States and the United Kingdom. The design of the course allows for an exploration of how the American system developed from the British system and why social and cultural factors influenced the differences/similarities in their development.

**Prerequisite(s):** CRCJ major or CRCJ minor and permission of the instructor. Not open to non-degree graduate students.

**CRCJ 4740 NATIONAL SECURITY AND HOMELAND DEFENSE: FROM 9/11 TO TODAY (3 credits)**

Discover the evolving landscape of homeland security and how it shapes the safety and resilience of the United States today. This course takes you through the history of homeland security, from the aftermath of 9/11 to the latest developments in national defense. You'll explore key laws, regulations, and structural changes that have defined the nation's approach to security. Dive into critical areas such as counterterrorism, transportation security, border control and immigration, cybersecurity, and community resilience. Through real-world case studies and interactive discussions, you'll gain a deeper understanding of the challenges facing national security and how agencies respond to evolving threats.

**Prerequisite(s):** CRCJ 1010, ENGL 1150 and 45 credit hours; or instructor permission

**CRCJ 4750 INTERNATIONAL CRIMINOLOGY AND CRIMINAL JUSTICE (3 credits)**

This course analyzes the dynamics of criminality and the social response to criminality across countries. Differences in crime and justice between developed and developing countries and between socialist and capitalist nations are emphasized.

**Prerequisite(s):** Sophomore standing or instructor permission.

**Distribution:** Global Diversity General Education course

**CRCJ 4760 TERRORISM (3 credits)**

This course is designed to assist the student in developing an understanding of terrorism as a political crime. It includes an examination of the social, political and psychological aspects of this behavior.

**Prerequisite(s):** Sophomore standing or instructor permission.

**Distribution:** Global Diversity General Education course

**CRCJ 4770 ORGANIZED CRIME (3 credits)**

This course will deal with issues surrounding the phenomena of organizational crime. The student will be exposed to theories, concepts, case studies and issues relating to this topic. Organizational crimes are some of the most dangerous to American society and range from the commonly known offenses of gambling and narcotics trafficking to the more subtle and sophisticated crimes of extortion, commercial bribery, and political corruption.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours; or instructor permission

**CRCJ 4780 WHITE COLLAR CRIME (3 credits)**

This course is designed to examine those illegal acts committed by nonphysical means and by concealment or guile, to obtain money or property, to avoid the payment or loss of money or property, or to obtain business or personal advantage.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours

**CRCJ 4790 CYBER & COMPUTER CRIMES (3 credits)**

This course is designed to provide students with an introduction to cybercrime. Cybercrime is an extremely broad term that encompasses a wide variety of criminal behaviors. Specifically, this course is designed to introduce students to the following: how the digital world has influenced crime, theories related to cybercrime, types of cybercrimes, the implications of computer crimes and cyber-terrorism, privacy and freedom of speech in the context of the digital world, and the challenges cybercrime poses for our criminal justice system.

**Prerequisite(s):** CRCJ 1010, ENGL 1150, and 45 credit hours or instructor permission

**CRCJ 4800 SPECIAL TOPICS (3 credits)**

This course is a topical approach that explores various aspects of Criminology and Criminal Justice. Topics and disciplines will vary from term to term. Course description will be announced in advance. This course will be devoted to the exploration and analysis of contemporary problems in the criminal justice system.

**Prerequisite(s):** CRCJ major; CRCJ minor; CRCJ 1010 and jr/sr standing; or instructor permission.

**CRCJ 4950 INDEPENDENT STUDY (1-3 credits)**

Students explore a topic of interest under the close supervision of a faculty member. The student and faculty member work together to establish a plan of study which may include independent reading and writing, applied activities, research activities and products, and/or other activities deemed appropriate. The student is responsible for selecting a possible topic of study before contacting the faculty member.

**Prerequisite(s):** CRCJ 1010, ENGL 1160, and 45 credit hours; instructor permission. Not open to non-degree graduate students.

**CRCJ 4960 ISSUES IN CRIME AND JUSTICE (3 credits)**

This is a capstone course. Each student will identify and explore a contemporary issue relevant to crime and justice policy. Students will develop multimedia packages designed to educate and advocate for their chosen policy action (e.g., adoption, reform, replacement). The purpose of the course is to allow students to integrate their previous course experiences and skills, independent research, and community stakeholder engagement (via interviews) into an activity that demonstrates critical thinking, synthesis, and evaluation.

**Prerequisite(s):** CRCJ majors with senior standing, OR permission of the instructor. Not open to non-degree graduate students.

**CRCJ 4970 SENIOR HONORS PROJECT/THESIS (3-6 credits)**

An independent research project supervised by School faculty. The senior honors project must be approved by the CPACS Honors Coordinator.

**CRCJ 4990 APPLIED SENIOR ASSESSMENT (1 credit)**

This course is intended to give students an opportunity to reflect on their curricular and personal development during their undergraduate career. Students will have the opportunity to develop several career development artifacts. It is also used as a tool to help monitor progress toward the SCCJ's student learning outcomes (SLOs) and identify needed changes.

**Prerequisite(s):** Graduating seniors must register for and complete CRCJ 4990 in the term in which they plan to graduate. Not open to non-degree graduate students.

**CRCJ 4999 SENIOR ASSESSMENT (0 credits)**

This assessment tool is part of the School's Student Outcomes effort. It is designed to monitor the School's performance and to identify changes needed. Graduating seniors must register for and complete CJUS4999 - Senior Assessment in the term in which they plan to graduate.

**Prerequisite(s):** Students must register for CJUS 4999 in the term in which they plan to graduate. Not open to non-degree graduate students.

# Cybersecurity (CYBR)

## Cybersecurity Undergraduate Courses

### **CYBR 1100 INTRODUCTION TO INFORMATION SECURITY (3 credits)**

This course emphasizes our current dependence on information technology and how its security in cyberspace (or lack thereof) is shaping the global landscape. Several historical and contemporary global events that have been influenced by the exploitation of information technology motivates topics on cyber crime, malware, intrusion detection, cryptography, among others, and how to secure one's own data and computer system. Several aspects of this course are geared towards developing an understanding of the "cyberspace" as a new medium that breaks all geographical boundaries, while highlighting noticeable influences on it from social, political, economic and cultural factors of a geographical region. (Cross-listed with ACMP 1100).

**Distribution:** Global Diversity General Education course

### **CYBR 2250 LOW-LEVEL PROGRAMMING (3 credits)**

This course will teach the cybersecurity (CYBR) students low-level programming in the 'C' and assembly languages, and the interrelationship between these two programming paradigms. The student will learn the various control structures in 'C' and how they are implemented in machine code, memory allocation and management, and the basics of allocation classes such as static versus automatic variables. The students will also learn assembly language in the 'C' environment and will be able to write useful, functional, stand-alone assembly language programs with no help from external libraries.

**Prerequisite(s):** CSCI 1620. Not open to non-degree graduate students.

### **CYBR 2600 SYSTEM ADMINISTRATION (3 credits)**

This course covers topics a system administrator would encounter in their profession. The student will learn how a system administrator fulfills various computer management requirements using both Windows and Linux operating systems on both physical and virtual machines. Topics include installation, creating and maintaining file systems, user and group administration, backup and restore processes, network configuration, system services, virtualization, and security administration.

**Prerequisite(s):** CIST 1400 or CIST 1600 or Instructor Permission

### **CYBR 2980 SPECIAL TOPICS IN CYBERSECURITY (3 credits)**

The course provides a format for exploring subject areas in Cybersecurity and related fields for sophomore undergraduate students. Specific topics vary, in keeping with research interests of faculty and students. Examples include network configuration, network security, forensics, regulatory compliance, web services and applications, vulnerability assessments, cloud computing security, and other issues in Cybersecurity.

**Prerequisite(s):** Instructor permission required. Not open to non-degree graduate students.

### **CYBR 3050 PRINCIPLES OF CYBER OPERATIONS AND DEFENSE (3 credits)**

An overview of cyber-defense involves examining strategies, tools, and practices designed to protect digital systems, networks, and data from cyber threats and attacks. This includes learning about the technologies and strategies used to protect systems and networks, developing a comprehensive understanding of the core principles of cybersecurity, understanding different types of vulnerabilities and their causes, and describing the legal frameworks that exist within the cybersecurity discipline.

**Prerequisite(s):** CYBR 1100, CIST 1400 OR CIST 1600

### **CYBR 3450 NATURAL LANGUAGE PROCESSING (3 credits)**

The course will provide overview of the topics in natural language processing such as word and sentence tokenization, syntactic parsing, semantic role labeling, text classification. We will discuss fundamental algorithms and mathematical models for processing natural language, and how these can be used to solve practical problems. We will touch on such applications of natural language processing technology as information extraction and sentiment analysis. (Cross-listed with CSCI 3450).

**Prerequisite(s):** Prereq: CSCI 2030 with C- or better; Co-req: CSCI 3320 with C- or better; Students should be comfortable w/ scripting (Python is the language extensively used in natural language processing tools including NLTK). Not open to non-degree graduate students.

### **CYBR 3570 CRYPTOGRAPHY (3 credits)**

The course will provide a broad overview of the concepts, fundamental ideas, vocabulary, and literature base central to the study and development of cryptography and cryptanalysis. This course will explore historical development of cryptography, as well as methods used to defeat it. In addition, the course will cover the mathematical foundations of cryptography today, as well as some current uses of such cryptography, such as public key infrastructures, the Internet Key Exchange protocol, and more.

**Prerequisite(s):** CSCI 3320 or ISQA 3300. Not open to non-degree graduate students.

### **CYBR 3600 CYBERSECURITY POLICY AND AWARENESS (3 credits)**

This course will cover the planning and development for information governance, security policies and procedures, and security awareness.

**Prerequisite(s):** CIST 3110, which may be taken concurrently.

### **CYBR 4360 PRINCIPLES OF SECURE SYSTEM DESIGN (3 credits)**

Contemporary issues in computer security, including sources for computer security threats and appropriate reactions; basic encryption and decryption; secure encryption systems; program security, trusted operating systems; database security, network and distributed systems security, administering security; legal and ethical issues. (Cross-listed with CYBR 8366, CSCI 8366).

**Prerequisite(s):** CSCI 3320 or CSCI 8325 OR ISQA 3400 OR By instructor permission

### **CYBR 4380 DIGITAL FORENSICS (3 credits)**

Digital forensics involves the preservation, identification, extraction, analysis and documentation of digital evidence stored on a variety of electronic devices. The aim of this course is to introduce students to acceptable approaches for collecting, analyzing and reporting data from a forensics investigation. Topics include: an introduction to digital forensics, data acquisition, first response, memory forensics, operating system forensics, and network forensics. Students will be required to perform several forensics analyses in a controlled lab environment, including acquiring forensically sound hard drive images, memory images and analyzing these using industry standard tools, such as Forensic Toolkit (FTK). The Digital Forensics class is designed for Cybersecurity, Computer Science and other qualified students to learn what actions are both appropriate and required for preserving, collecting and analyzing digital evidence in cases of intrusion, data theft or other cybercrimes. (Cross-listed with CSCI 4380).

**Prerequisite(s):** CYBR 3600 or CIST 3600; CSCI 3550 or ISQA 3400; CYBR 2600 or CYBR 3350 or CYBR 3370.

**CYBR 4390 MOBILE DEVICE FORENSICS (3 credits)**

Mobile device forensics is the science of recovering digital evidence from a mobile device under forensically sound conditions using accepted methods. The aim of this course is to introduce students to acceptable approaches for collecting, analyzing and reporting data from a mobile device forensics investigation. Topics include: an introduction to digital and mobile device forensics, mobile forensics standards, acquisition methods (manual, logical, physical and provider-side), Android and iOS filesystem analysis, decoding approaches, application data analysis, and report writing. Students will be required to perform several investigations in a controlled lab environment, including acquiring forensically sound evidence and analyzing these using industry standard tools. (Cross-listed with CYBR 8396).

**Prerequisite(s):** CYBR 4380/8386 - Computer and Network Forensics or Instructors Permission

**CYBR 4430 QUANTUM COMPUTING AND CRYPTOGRAPHY (3 credits)**

The course builds an understanding of exciting concepts behind quantum computing and quantum cryptography. In doing so it will introduce the principles of qubits, superposition, entanglement, teleportation, measurement, quantum error correction, quantum algorithms such as quantum Fourier transformation, Shor's algorithm and Grover's algorithm, quantum key exchange, quantum encryption, and secure quantum channels that are built using these principles. It will also discuss advantages of quantum computing and cryptography over classical computing and cryptography and limitations thereof. The students will come out with a working understanding of the field of quantum computing and quantum cryptography. During the course, students will also implement several of the quantum algorithms. (Cross-listed with CYBR 8436, CSCI 4430).

**Prerequisite(s):** Co-requisites: CYBR 3570 or CSCI 4560; or Instructor permission.

**CYBR 4440 INDUSTRIAL CONTROL SYSTEM SECURITY (3 credits)**

The objective of this course is to research vulnerabilities into, and provide guidance for securing, industrial control systems (ICS). ICS is a general term that encompasses several types of control systems, including supervisory control and data acquisition (SCADA) systems, distributed control systems (DCS), and other control system items such as Programmable Logic Controllers (PLC). The student will learn to identify network and device vulnerabilities and potential countermeasures to these weaknesses. (Cross-listed with CYBR 8446)

**Prerequisite(s):** CSCI 3550.

**CYBR 4450 ETHICAL HACKING - MALWARE ANALYSIS (3 credits)**

Malware analysis is the study of computer viruses and how they operate. A heavy emphasis in the class is learning and using reverse engineering tools for analyzing executable computer software at an assembly-language level, particularly using the x86 instruction set. Students will learn about "packing", "hooking", and other low-level ploys that malware utilizes to make itself stealthy, persistent, and to thwart reverse engineering efforts. (Cross-listed with CYBR 8456.)

**Prerequisite(s):** CSCI 3710 and CYBR 2250

**CYBR 4460 ETHICAL HACKING - NETWORK ANALYSIS (3 credits)**

The course is an advanced class in which the students learn various techniques for testing for and identifying security flaws in network software and web applications. Internet technologies such as HTTP, DNS, DHCP, and others are examined in the context of cyber security. Students are expected to participate in numerous hands-on experiments related to Information Assurance with respect to web technologies. (Cross-listed with CYBR 8466)

**Prerequisite(s):** CSCI 3550

**CYBR 4540 COMPUTER SECURITY MANAGEMENT (3 credits)**

The purpose of this course is to integrate concepts and techniques from security assessment, risk mitigation, disaster planning, and auditing to identify, understand, and propose solutions to problems of computer security and security administration. (Cross-listed with CIST 4540, CYBR 8546, ISQA 8546)

**Prerequisite(s):** CYBR 4360 or permission of the instructor.

**CYBR 4580 CAPSTONE (3 credits)**

This capstone course serves as the culminating experience for students in Cybersecurity or Applied Computing and Informatics. Students choose among three pathways: the Security Maker Path, where they design, build, and secure a new system or significant component, producing artifacts such as design documentation, code, and testing results; the Security Breaker Path, where they rigorously evaluate an existing product or system using system, network, and/or software testing methods, generating artifacts such as reversed design documents, vulnerability analyses, test cases, scans, and an overall systems posture analysis report; and the Applied Computing Path, focusing on design, development, and innovation artifacts in areas such as software development, data analytics, informatics solutions, and/or biomedical areas. Most projects will include a community-engaged component, enabling students to tackle real-world challenges and contribute positively to the community. This course is ideally taken in the final semester of your degree. (Cross-listed with ACMP 4580).

**Prerequisite(s):** Senior standing in Cybersecurity or Applied Computing and Informatics. Not open to non-degree graduate students.

**CYBR 4950 INTERNSHIP IN CYBERSECURITY (1-3 credits)**

The course provides a format for a student to work with a local or national industry partner in a cyber-security oriented position, and to receive credit for this practical experience. The internship may or may not be a paid position, but will definitely be directly related to the Cybersecurity degree program. The class is proposed and organized by the student, with participating faculty supervising and input provided by the industry partner.

**Prerequisite(s):** Instructor Permission

**CYBR 4980 SPECIAL TOPICS IN CYBERSECURITY (3 credits)**

The course provides a format for exploring advanced research areas for undergraduate and graduate students in Cybersecurity and related fields. Specific topics vary, in keeping with the research interests of faculty and students. Examples include applied data mining, mobile security, web services and applications, vulnerability assessments, cloud computing security, and other issues in Cybersecurity research. (Cross-listed with CYBR 8986)

**Prerequisite(s):** Instructor Permission.

**CYBR 4990 INDEPENDENT STUDY IN CYBERSECURITY (1-3 credits)**

The course provides a format for exploring advanced research areas for undergraduate students in Cybersecurity and related fields. The class is designed for students that would like to explore specific Cybersecurity topics at a greater depth, or topics which are not currently a part of the CYBR curriculum. The class is proposed and organized by the student, with participating faculty mentoring.

**Prerequisite(s):** Instructor Permission

## Economics (ECON)

### Economics Undergraduate Courses

**ECON 1200 SURVEY OF ECONOMICS (3 credits)**

An introduction to fundamental economic analysis, applying economic concepts to both domestic and international problems and policies.

**Prerequisite(s):** Not available to students who have completed either ECON 2200 or 2220.

**Distribution:** Social Science General Education course

**ECON 2200 PRINCIPLES OF ECONOMICS (MICRO) (3 credits)**

An introduction to economic principles, decision making and policies affecting product and resource markets. Particular emphasis is on price, output and input decisions by individuals and firms under various market conditions. An introduction to the fundamentals of international trade.

**Prerequisite(s):** ENGL 1150 and MATH 1310 or MATH 1220 with 'C-' (1.67) or better, or permission of CBA advisor

**Distribution:** Social Science General Education course



**ECON 2220 PRINCIPLES OF ECONOMICS (MACRO) (3 credits)**

An introduction to economic principles, decision making and policies on national income and output, employment, growth, money, the price level and the international economy.

**Prerequisite(s):** MATH 1310 or MATH 1220 and ENGL 1150 with a C-minus (1.67) or better, or permission of CBA advisor

**Distribution:** Social Science General Education course

**ECON 2400 PRINCIPLES OF ECONOMICS FOR EDUCATORS (3 credits)**

This course teaches principles of microeconomics and macroeconomics to K-12 educators. After taking this course students will be able to use the economic way of thinking to study current economic issues. Students will be introduced to macroeconomic principles, decision-making and policies on national income and output, employment, growth, money, price level, and fundamentals of international issues. Students will study microeconomic issues including product and resource markets, and prices output and input decisions under various market conditions. Economic concepts will be aligned to K-12 state social studies standards. This course cannot be substituted for ECON 2200 and/or ECON 2220.

**Prerequisite(s):** MATH 1310 or MATH 1220, ENGL 1150, ECON 2200 or ECON 2220. Not open to non-degree graduate students.

**ECON 2600 SURVEY OF BEHAVIORAL ECONOMICS (3 credits)**

This course examines the basic concepts behind behavioral economics and the application of behavioral economics across other fields of study. Students will be able to understand the basic variables influencing decision making, including framing and perception as well as the influence of social dynamics and psychological influences.

**ECON 3130 ECONOMIC GEOGRAPHY (3 credits)**

An introduction to the basic concepts and approaches in contemporary economic geography, stressing the importance of the spatial perspective for an understanding of how economic processes work at global, national, regional, and local scales. (Offered Fall) (Cross-listed with GEOG 3130).

**ECON 3200 ECONOMIC THEORY: MICRO (3 credits)**

Analysis of individual, firm and industry behavior in product and factor markets. Provides a theoretical foundation for managerial and public policy decision-making.

**Prerequisite(s):** MATH 1310 or MATH 1220 and ECON 2200, each with a "C" (2.0) or better.

**ECON 3220 ECONOMIC THEORY: MACRO (3 credits)**

This course is designed to follow introductory economics, to examine the determination of output, employment, the price level, inflation, interest rates, and the exchange rate in the economy. Piece-by-piece, theoretical models will be constructed describing how each of these and other variables are determined in both, the long-run and in the short-run. We will analyze how changes in a particular event affect different markets in the economy, and in turn, how one market interacts with another within a general equilibrium framework. A large part of the course will be devoted to business cycle theory, macroeconomic policy issues, and open economy macroeconomics. The world economies are very much integrated, and thus, a full understanding of macroeconomics requires knowledge of international aspects of macroeconomics. The purpose of this course is to provide the student with an understanding of the connection between macroeconomic theory and related policy issues.

**Prerequisite(s):** Completion of ECON 2200 with a C or better AND ECON 2220 with a C or better

**ECON 3290 ECONOMICS OF PUBLIC ISSUES (3 credits)**

Economics is frequently considered an abstract topic, with interesting results that are not easily applied in the real world. Through Economics of Public Issues, however, students will explore the real ways in which economics can be used to understand, explain, and answer tough questions that affect everyone. Students will explore and define capitalism and key economic institutions required for economies to develop and prosper. We will examine markets and market failures that exist today. Classes will focus on the outcomes - intended and unintended - of various policies (local, national, and global). While specific issues are going to be covered in the course the intent is that students will learn the tools and strategy of thinking like an economist to guide them through future issues that will come up in their personal, professional, and civic lives.

**Prerequisite(s):** ECON 2200 OR Instructor Approval.

**ECON 3300 INTRODUCTION TO ECONOMETRICS (3 credits)**

An introduction to empirical research methods in economics. Subjects covered include estimations of the basic linear regression model, hypothesis testing, correlation coefficients, analysis of variance, multicollinearity, dummy variables, specification error, auto-correlation, heteroscedasticity and unconditional forecasting. Empirical illustrations are provided by reference to contemporary economic questions.

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200, ECON 2220, BSAD 2130 or BSAD 3160, each with a "C" (2.0) or better, or permission of instructor.

**ECON 3310 SQL, DATABASES, AND DATA CLEANING FOR DATA SCIENTISTS (3 credits)**

Analytics requires data. Within an organization, this data is usually housed in databases. In this class, you will extract data from these systems using Structured Query Language (SQL), programmatically combine multiple datasets, and learn advanced programatic data cleaning techniques, such as regular expression.

**Prerequisite(s):** ECON 2200 with a "C" or better

**ECON 3550 PUBLIC FINANCE (3 credits)**

This course explores the objectives and rationale of government activity in a market economy, including positive and normative analysis of public expenditures and taxes. Topics include Social Security, health insurance, education, food stamps, student aid, unemployment insurance, efficiency and incidence of major revenue sources, and tax reform proposals. (Cross-listed with FNBK 3550).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better.

**ECON 3600 INTRODUCTION TO INTERNATIONAL ECONOMICS (3 credits)**

An introduction to analyses of international trade and the international monetary system. Subjects covered include the economic basis for international specialization and trade, the effect of trade on income distribution, commercial policy, economic integration, the balance of payments, adjustment mechanism, exchange rate determination, external effects of monetary and fiscal policy and foreign investment.

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better.

**ECON 4000 SPECIAL TOPICS IN ECONOMICS (3 credits)**

This course will explore a specified topic in the field of economics.

**Prerequisite(s):** Varies by offering



**ECON 4210 INDUSTRIAL ORGANIZATION (3 credits)**

In this class we will examine why firms and industries behave the way that they do. We will explore why some industries face intense competition while others enjoy large profits, why some industries offer only bundles, and why some firms buy up their supply chain when others do not. This theoretical course will illuminate un-theoretical implications to your life and future business ventures. This course will use your economic knowledge, a bit of psychology (behavioral economics) and game theory to answer questions like "Why does everyone hate the cable company?" and "Why are CEOs given so many stock options?" (Cross-listed with ECON 8216).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better, or permission of instructor.

**ECON 4240 LABOR ECONOMICS (3 credits)**

The course will cover essential topics in Labor Economics including factors leading to equilibrium conditions in the labor market, human capital accumulation, discrimination in the workplace, compensation for undesirable work, mobility, unionization, and more. (Cross-listed with ECON 8246).

**Prerequisite(s):** ECON 2200 OR Equivalent OR Instructor Approval

**ECON 4300 QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS (3 credits)**

The study and application of modern quantitative techniques to problem-solving in economics and business. It is designed to help the student to translate verbal arguments in economics and business into their mathematical equivalents, to improve analytical skills, and to attain proficiency in marginal analysis, equilibrium analysis, static optimization, and comparative statics analysis. It covers topics such as exponential and logarithmic functions and their applications, linear algebra and its applications, derivatives and their applications, maximization of functions with one variable and multi variables, maximization with non negativity constraints, and integral calculus and its applications in economics and business. (Cross-listed with ECON 8306).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C"(2.0) or better, or permission of instructor.

**ECON 4320 NATURAL RESOURCE ECONOMICS (3 credits)**

This course introduces students to the economics and management of Earth's natural resources. We address questions such as: Are we running out of natural resources? Are we using resources in a sustainable fashion? What role to markets play in resource use? We will address issues related to fossil-based resources, minerals, fisheries, water, land, forests and other associated topics. The course covers the basic theoretical framework for understanding the optimal rate of resource use, identifies the factors that determine the actual rate of use, and considers and evaluates various public policy prescriptions. (Cross-listed with ECON 8326).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better, or permission of instructor.

**ECON 4330 ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (3 credits)**

In this course students will apply economic concepts and models to environmental concerns and policy solutions that combat environmental degradation. Topics include: Air and water pollution, solid waste management, carbon taxation, cap-and-trade systems, and economic motivations for environmental business management. (Cross-listed with ECON 8336).

**Prerequisite(s):** MATH 1310 or MATH 1220 and ECON 2200, each with a "C" (2.0) or better. Not open to non-degree graduate students.

**ECON 4340 ECONOMICS OF TECHNOLOGY (3 credits)**

Innovative dynamism is the economic system which brings us the new goods and processes that make life longer and better. We will examine how the system works, including: The role of the breakthrough inventor and the innovative entrepreneur; whether the system improves or hurts ethical behavior, culture, equality, and the environment; the costs to workers in terms of job loss, and the benefits to workers in terms of the creation of better jobs; how funding, regulatory, and patent policies affect innovative dynamism; and how innovative dynamism in medicine can result in more and faster cures for cancer and other diseases. (Cross-listed with ECON 8346).

**Prerequisite(s):** MATH 1310 or MATH 1220 and ECON 2200, each with a "C" (2.0) or better, or BSAD 8180, or permission of instructor.

**ECON 4350 BUSINESS INTELLIGENCE AND REPORTING (3 credits)**

The course will teach students to use state-of-the-art Business Intelligence (BI) software to generate reports and information from data. BI software is used to inform decision-making in industries from transportation to medicine, from marketing to government, and is facilitated by rapidly increasing access to data in all industries. Students will learn to employ best practices in visualization and verbal communication as they are trained to create valuable insights from data and convey those insights to stakeholders. Additionally, the course will aid students in preparing for certification in the use of state-of-the-art BI software. (Cross-listed with ECON 8316).

**Prerequisite(s):** BSAD 2130 (or equivalent) OR Instructor Approval

**ECON 4450 DOMESTIC MONETARY THEORY AND POLICY (3 credits)**

The course will introduce students to topics in money and banking, financial institutions, markets, financial instruments, and monetary theory in order to enhance financial decision making and enable students to effectively analyze economic news in media such as the Wall Street Journal, The New York Times, Business Week, Barrons, The Economist, and other related business publications. This knowledge will enable students to formulate their own views about the current economic environment, government policies, and responses to economic environments. (Cross-listed with ECON 8456).

**Prerequisite(s):** ECON 3220, or permission of instructor.

**ECON 4500 SPECIAL PROBLEMS IN ECONOMICS (2-3 credits)**

Individual investigation of specific problems in the field of economics under the supervision of a faculty member.

**Prerequisite(s):** Senior and permission of department chair.

**ECON 4510 ECONOMIC INTERNSHIP (1-3 credits)**

Students engage in part time employment in their area of concentration to gain relevant business experience and to practice the skills and concepts learned in the classroom. Supplemental reports and/or reading may be required (maximum 3 credit hours).

**Prerequisite(s):** Permission of internship coordinator; 'C' (2.0) or better in ECON 2200 and ECON 2220; 2.5 Cumulative GPA; junior or senior standing.

**ECON 4570 ECONOMIC CONDITIONS ANALYSIS (3 credits)**

This course teaches students how to conduct an economic analysis of, and produce an economic forecast for, a local economy such as a state, county, or metropolitan area. Students will learn where to find data, how to analyze that data, how to develop models with the data, and how to present the data in a clear, concise, and jargon-free manner. The final published report will be authored by the students registered in the course. All students will contribute equally to the final report. The instructor will ensure equal participation. (Cross-listed with ECON 8576).

**Prerequisite(s):** ECON 2200 and ECON 2220, or permission of the instructor

**ECON 4610 INTERNATIONAL TRADE (3 credits)**

An analysis of the character of international economic relations. Subjects covered include the economic basis for international specialization and trade, the economic gains from trade, commercial policy, economic integration and economic growth. (Cross-listed with ECON 8616).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better, or permission of instructor.

**ECON 4620 INTERNATIONAL MONETARY THEORY (3 credits)**

This course is designed to introduce students to topic areas in International Macroeconomics and International Finance. Students will examine the mechanisms of the foreign exchange market, and how exchange rates are determined in the short-run as well as in the long-run. Students will investigate the different exchange rate regimes around the world, including fixed exchange rates, floating exchange rates, crawling pegs, and other arrangements. Students will examine the European Union and ask whether such a system is economically viable. This is especially important in the current economic environment facing Europe. Students will also examine exchange rate crises over history, and examine how they all have common elements. (Cross-listed with ECON 8626).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better, or permission of instructor.

**ECON 4660 INTERNATIONAL ECONOMIC DEVELOPMENT (3 credits)**

This course introduces theories and application of economic development and growth, economic problems facing developing countries, analyzes domestic economic issues (e.g., per capita GDP, income distribution, population, unemployment, urbanization, education, fiscal policies, and financial policies), and international economic issues (e.g., trade, foreign investment, and foreign debt). Financial crises, debt crises, and economic recovery will be discussed. (Cross-listed with ECON 8666).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better, or permission of instructor.

**ECON 4730 ECONOMICS OF ENTREPRENEURSHIP (3 credits)**

This course will review economic theories of entrepreneurship with special emphasis on Schumpeter's theory of creative destruction. The main focus of the seminar will be on the "high-level" entrepreneurship that sometimes results in major innovations. This course will address the societal benefits of entrepreneurship, factors influencing entrepreneurial success, the policies that best encourage entrepreneurship, and how firms can survive and prosper in an entrepreneurial environment. (Cross-listed with ECON 8736, BSAD 8736).

**Prerequisite(s):** ECON 2200 or permission of the instructor for all students

**ECON 4770 SPORTS ECONOMICS (3 credits)**

Economics is frequently considered an abstract topic, with interesting results that are not easily applied in the real world. Through Sports Economics, students will explore the very real ways in which economics influences sporting competitions and the businesses surrounding them. Students will explore topics such as unionization in sports, discrimination, amateurism, monopoly power, game theory, and more in the context of sports, giving the student a deeper understanding of how these topics apply to real-world problems. After this course, students will understand how readily economics can be applied to businesses and problems in any industry or domain. (Cross-listed with ECON 8256).

**Prerequisite(s):** ECON 2200 OR Equivalent OR Instructor Approval. Not open to non-degree graduate students.

**ECON 4850 ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (3 credits)**

This course exposes students to the field of Urban Economics with a focus on the latest theories and empirical tools used by economic development experts to measure urban and regional activity and develop strategies for future economic growth and prosperity. As such, students will learn where to find urban and regional data and how to best utilize such data. This combination of theory and practical application is ideal for any student studying economics, business, public policy or political science and those who might be interested business location, urban and rural growth and economic development more generally. (Cross-listed with ECON 8856)

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better, or permission of instructor.

**ECON 4990 SENIOR ASSESSMENT (0 credits)**

This assessment tool is part of the Department's Student Outcomes effort. It is designed to monitor the Department's performance and to identify changes needed. Graduating seniors must register for and complete this course in the term in which they plan to graduate.

**Prerequisite(s):** Students must register for ECON 4990 in the term in which they plan to graduate. Not open to non-degree graduate students.

## Educational Leadership (EDL)

### Educational Leadership Undergraduate Courses

**EDL 2590 FOUNDATIONS OF LEADERSHIP DEVELOPMENT (3 credits)**

This course will explore foundational leadership theories for working with formal and informal groups, influencing others, and practice personal and social competencies associated with effective collaboration and leadership.

**Distribution:** Social Science General Education course

**EDL 4590 FOUNDATIONS OF LEADERSHIP DEVELOPMENT (3 credits)**

Leadership development is an educational outcome for college students, and at UNO, is strongly encouraged. This course will expose students to foundational leadership theories and challenge them to explore personal and social competencies associated with effective collaboration and leadership. (Cross-listed with EDL 8596).

## Educational Professional Sequence (EDUC)

### Educational Professional Sequence Undergraduate Courses

**EDUC 1010 FOUNDATIONS FOR SUCCESS IN HIGHER EDUCATION (1 credit)**

This course provides fundamentals and foundations for success throughout the college experience at UNO. It is designed for first-year students in the College of Education, Health, and Human Sciences. The course is primarily activity- and discussion-based.

**Prerequisite(s):** Not open to non-degree graduate students.

**EDUC 2510 APPLIED SPECIAL EDUCATION (3 credits)**

This course is designed to describe the characteristics and learning styles of students with various exceptional learning needs. This course is also intended to provide pre-service teachers with the knowledge base and many of the teaching strategies/techniques essential for modifying the learning environment and individualizing instruction for students with exceptional learning needs. This course will prepare pre-service teacher candidates as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world.

**Prerequisite(s):** Undergraduate, EDUC 2010, EDUC 2030; GPA=2.75 or better; Co-requisites EDUC 2520 and EDUC 2524

**EDUC 2514 INTERMEDIATE FIELD EXPERIENCES ORIENTATION (0 credits)**

Orientation for intermediate field experiences.

**Prerequisite(s):** EDUC 2010

**EDUC 2524 INTERMEDIATE FIELD EXPERIENCES PRACTICUM (0 credits)**

Co-requisite for EDUC 2510 and EDUC 2520

**Prerequisite(s):** EDUC 2010

# Electrical and Computer Engineering (ECEN)

## Electrical and Computer Engineering Undergraduate Courses

### ECEN 102 INTRODUCTION TO ELECTRICAL ENGINEERING (2 credits)

An overview of the electrical engineering field. Introduction to some basic concepts and skills needed in electrical engineering. Professionalism and ethics are addressed as well as the need for lifelong learning experiences. Information on professional careers available upon graduation.

**Prerequisite(s):** Open to first-year students only or by permission. Not open to non-degree graduate students.

### ECEN 103 ELECTRICAL AND COMPUTER ENGINEERING FUNDAMENTALS (4 credits)

Introduction to DC circuit analysis and digital logic. Topics include Ohm's and Kirchoff's laws, mesh and nodal analysis, Boolean algebra, logic gates, minimization, counters and flip-flops. Uses of computer based resources for data analysis and report generation. Use of internet to locate and retrieve engineering resources.

**Prerequisite(s):** MATH 1950 (pre or coreq)

### ECEN 106 MICROPROCESSOR APPLICATIONS (3 credits)

Introduction to assembly language programming of microprocessors/microcontrollers, assemblers, and debugging tool utilization. Microprocessor system hardware components, control signals, and 'C' language micro-controller programming.

**Prerequisite(s):** ECEN 103, CIST 1400

### ECEN 123 INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING (1 credit)

Laboratory design projects introducing some basic concepts and skills needed in electrical and computer engineering.

**Prerequisite(s):** Coreq: CIST 1400. Open to first year students only or by permission.

### ECEN 155E COMPUTER SCIENCE I: SYSTEMS ENGINEERING FOCUS (3 credits)

Introduction to problem solving with computers. Topics include problem solving methods, software development principles, computer programming, and computing in society.

**Prerequisite(s):** MATH 1330 or an ALEKS score for MATH 1340 or higher.

### ECEN 156 COMPUTER SCIENCE II (4 credits)

Data structures, including linked lists, stacks, queues, and trees; algorithms, including searching, sorting, and recursion; programming language topics, including object-oriented programming; pointers, references, and memory management; design and implementation of a multilayer application with SQL database.

**Prerequisite(s):** A grade of "P" or "C" or better in ECEN 155E; coreq: MATH 1950.

### ECEN 164 INTRODUCTION TO COMPUTER ENGINEERING (2 credits)

Introduction to basic concepts and skills needed in computer engineering. Practical application of basic computing concepts through an introduction to programming an embedded system.

**Prerequisite(s):** Open to first-year students only or by permission.

### ECEN 192 INDIVIDUAL STUDY IN COMPUTER AND ELECTRONICS ENGINEERING I (1-3 credits)

Individual study at the freshman level in a selected electrical, computer, or electronics engineering area under the supervision and guidance of an electrical and computer engineering faculty member.

**Prerequisite(s):** Departmentally approved proposal

### ECEN 194 SPECIAL TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING I (1-4 credits)

Special topics in the emerging areas of electrical, computer and electronics engineering which may not be covered in the other courses in the electrical and computer engineering curriculum.

**Prerequisite(s):** Freshman standing or permission.

### ECEN 198 SPECIAL TOPICS IN ELECTRICAL ENGINEERING I (1-6 credits)

Offered as the need arises to treat electrical engineering topics for first-year students not covered in other courses.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

### ECEN 211 ELEMENTS OF ELECTRICAL ENGINEERING (3 credits)

Basic circuit analysis including direct and alternating currents and operational amplifiers. Digital signals and circuits. Not for electrical engineering majors.

**Prerequisite(s):** MATH 1960 and PHYS 2110

### ECEN 213 ELECTRICAL CIRCUITS I (3 credits)

Electrical circuit theory, Kirchoff's and Ohm's laws, circuit analysis theorems, Norton and Thevenin equivalence. The analysis of resistor circuits, with capacitors and inductors, in DC and AC steady state. Transients and variable frequency response are studied, including computer solutions to circuit problems.

**Prerequisite(s):** ECEN 103 and ECEN 225. MATH 2350 prior to or concurrent.

### ECEN 214 ELECTRICAL CIRCUITS II (3 credits)

Introduction to the analysis of electrical circuits in sinusoidal steady states. The concepts of impedance, phasors, power, frequency response, resonance, magnetic circuits and two-part networks. Transform techniques for circuit analysis.

**Prerequisite(s):** ECEN 213 and ECEN 218. Pre or Corequisite: MATH 2050.

### ECEN 215 ELECTRONICS AND CIRCUITS I (3 credits)

Introduction to electrical engineering circuit theory. Kirchoff's law and circuit analysis theorem applied to steady state DC resistive circuits. Analysis of transient RLC and sinusoidal steady-state circuits. Modern computer methods are employed.

**Prerequisite(s):** Co-Req: MATH 1970

### ECEN 216 ELECTRONICS AND CIRCUITS II (3 credits)

Steady-state power calculations for sinusoidal single-phase and balanced three-phase circuits. Mutual inductance. Frequency response. Introduction to the fundamentals of semiconductor theory and their applications to P-N junction devices. Kirchoff's laws and circuit analysis theorems applied to steady-state diode circuits. Modern computer methods employed.

**Prerequisite(s):** ECEN 215 with grade of C or higher. Coreq: MATH 2350.

### ECEN 217 ELECTRICAL CIRCUITS III (1 credit)

Analysis of first and second order RLC circuits using differential equations and Laplace transforms. Variable frequency network performance analysis. This course is for computer engineering majors only.

**Prerequisite(s):** ECEN 213. Not open to non-degree graduate students.

### ECEN 218 ELECTRICAL CIRCUITS LABORATORY I (1 credit)

The use of laboratory tools for measurement and verification of electrical concepts. Experiments using both passive and semiconductor devices at audio frequencies. Analysis verification with computer simulation.

**Prerequisite(s):** Coreq: ECEN 213.

### ECEN 220 INTRODUCTION TO EMBEDDED SYSTEMS (4 credits)

Basic hardware and software concepts of embedded microprocessor systems and interfacing with other hardware components. Simple circuits are designed and drivers to run these circuits are written. Design and build hardware and write drivers in assembly language.

**Prerequisite(s):** ECEN 155E; ECEN 103; ECEN 164. Not open to non-degree graduate students.

**ECEN 222 ELECTRONIC CIRCUITS I (4 credits)**

Analysis and design of modern electronic circuits. Diode circuits, bipolar and field effect transistor switching and amplifier circuits, and operational amplifier circuits.

**Prerequisite(s):** ECEN 213 with grade of C or better, and ECEN 218.

**ECEN 224 INTRODUCTION TO SIGNAL PROCESSING (4 credits)**

This course demonstrates the use of mathematical and digital computation tools key to engineering applications. Auditory and visual senses are used in the presentation and study of sinusoidal signals, sampling, frequency response and filtering theory.

**Prerequisite(s):** ECEN 106, CIST 1400, MATH 1960.

**ECEN 225 ELECTRICAL AND COMPUTER ENGINEERING SEMINAR (1 credit)**

An overview of electrical, computer, electronics and telecommunication fields. There will be information on professional careers available upon graduation. Professionalism and ethics are addressed as well as the need for lifelong learning experiences.

**Prerequisite(s):** ECEN 103 or parallel

**ECEN 231 ELECTRICAL ENGINEERING LABORATORY (1 credit)**

Laboratory accompanying ECEN 211.

**Prerequisite(s):** Coreq: ECEN 211. Not open to non-degree graduate students.

**ECEN 235 INTRODUCTORY ELECTRICAL LABORATORY I (1 credit)**

Laboratory accompanying ECEN 215.

**Prerequisite(s):** Coreq: ECEN 215.

**ECEN 236 INTRODUCTORY ELECTRICAL LABORATORY II (1 credit)**

Laboratory accompanying ECEN 216

**Prerequisite(s):** ECEN 235, Coreq: ECEN 216.

**ECEN 292 INDIVIDUAL STUDY IN ELECTRICAL AND COMPUTER ENGINEERING II (1-3 credits)**

Individual study in a selected electrical, computer or electronics engineering area under the supervision and guidance of a electrical and computer engineering faculty member.

**Prerequisite(s):** Sophomore Standing, ECE departmentally approved proposal.

**ECEN 294 SPECIAL TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING II (1-4 credits)**

Special topics in the emerging areas of electrical, computer and electronics engineering at the sophomore level which may not be covered in the other courses in the electrical and engineering curriculum.

**Prerequisite(s):** Sophomore standing or permission.

**ECEN 304 SIGNALS AND SYSTEMS I (3 credits)**

Mathematical modeling of physical systems and signals. Representation of signals in terms of basic functions. Fourier Series expansion, Fourier Transforms, Laplace and Z-Transforms. Input-output relations, convolution. Transfer functions. System Stability. Poles/zeros and s- and z-plane methods. Applications.

**Prerequisite(s):** ECEN 214 or ECEN 216 with a grade of C or better and MATH 2350.

**ECEN 305 PROBABILITY THEORY AND STATISTICS FOR ELECTRICAL AND COMPUTER ENGINEERS (3 credits)**

Random experiment model, random variables, functions of random variables, and introduction to random processes; statistics and practical data analysis.

**Prerequisite(s):** MATH 1970/(UNL)MATH 208

**ECEN 306 ELECTROMAGNETIC FIELD THEORY (3 credits)**

Complex vectors, Maxwell's equations. Uniform plane waves. Wave reflection and transmission at interfaces. Waveguides and resonators. Transmission line principles. Antennas. Topics in waves.

**Prerequisite(s):** ECEN 215 or ECEN 213 with grade of C or better, PHYS 2120, MATH 1970, MATH 2350., not open to non-degree graduate students.

**ECEN 307 ELECTRICAL ENGINEERING LABORATORY I (2 credits)**

Laboratory work on circuits and systems, digital and analog electronic circuits.

**Prerequisite(s):** ECEN 106; ECEN 222 or ECEN 236; Coreq: ECEN 313 or ECEN 370; Admission to College of Engineering; not open to non-degree graduate students.

**ECEN 310 DIGITAL DESIGN AND INTERFACING (4 credits)**

Digital design from both the circuit and system perspectives. Topics include the structure and analysis of digital integrated circuits, interface signal integrity, Field Programmable Gate Array (FPGA) design and synthesis, software simulation. Lab exercises provide hands-on experience with design tools and the design process.

**Prerequisite(s):** ECEN 222. Prereq or coreq: ECEN 313.

**ECEN 313 SWITCHING CIRCUITS THEORY (4 credits)**

Combinational circuit analysis and design. State machine analysis and design. Synchronous/clock mode circuits and asynchronous sequential circuits. Minimization, race, and hazard elimination are covered. Circuits are implemented in discrete logic and in CPLD and FPGA devices. VHDL hardware description language is used to describe circuits.

**Prerequisite(s):** ECEN 220.

**ECEN 316 ELECTRONICS AND CIRCUITS III (3 credits)**

Kirchhoff's laws and circuit analysis theorems applied to steady state transistor circuits. Frequency response of filters and amplifiers. Basic power amplifier types. Advanced operational amplifier circuits. Introduction to the fundamentals of semiconductor theory and their application to p-n junction and field devices.

**Prerequisite(s):** ECEN 216 with grade of C or better.

**ECEN 317 ELECTRICAL ENGINEERING LABORATORY II (2 credits)**

Lab work on electromagnetic fields and waves, solid state devices, discrete systems, control systems, and communications.

**Prerequisite(s):** ECEN 304, ECEN 307 Coreq: ECEN 306, ECEN 316, not open to non-degree graduate students.

**ECEN 325 COMMUNICATION AND NETWORKING (4 credits)**

Communication: amplitude-, frequency/phase-modulation, sampling theorem, pulse-code modulation, OFDM, channel coding, and communication system/analysis. Networking: multiplexing, WANs, ATM, LANs, Internet/transport protocols, and data/computer communications.

**Prerequisite(s):** ECEN 222; Coreq: ECEN 305.

**ECEN 327 DISCRETE SYSTEMS LABORATORY (1 credit)**

Laboratory work on discrete systems.

**Prerequisite(s):** ECEN 106 or ECEN 220 and ECEN 307

**ECEN 328 APPLIED FIELDS AND LINES I (3 credits)**

Transmission lines. Discontinuities, different termination, and matching methods. Application of vector analysis to Maxwell's equations. Uniform plane waves including reflection/transmission. S-parameters. Principles of antennas. LW, MW, SW, USW propagation.

**Prerequisite(s):** MATH 1970 and MATH 2350

**ECEN 329 APPLIED FIELDS AND LINES II (3 credits)**

Metallic waveguides with rectangular, circular and coaxial cross section, antennas, free space, propagation in free space, applications.

**Prerequisite(s):** ECEN 328.

**ECEN 332 ASSEMBLY LANGUAGE PROGRAMMING (1 credit)**

Architecture and assembly language programming of 8-bit and 32-bit microcontrollers.

**Prerequisite(s):** ECEN 106

**ECEN 333 COMPUTER DESIGN (4 credits)**

Designed to present and discuss the design techniques for microprocessor-based systems. Discussion includes the design and implementation of hardware and software for a microprocessor system with memory, input/output, and support subsystems.

**Prerequisite(s):** ECEN 313 or ECEN 370 and ECEN 327



**ECEN 338 INTRODUCTION TO POWER AND ENERGY SYSTEMS (3 credits)**

Energy sources, environmental impacts, power systems principles, three phase circuits, transmission lines, transformers, per unit analysis, generators, loads, and power system modeling.

**Prerequisite(s):** ECEN 216 or ECEN 214 with grade of C or better. Not open to non-degree graduate students.

**ECEN 345 MOBILE ROBOTICS I (4 credits)**

Introduction to the primary issues spanning the field of mobile robotics, including robotics history, robot components (sensors, actuators), robot system design considerations, low-level control (feedback control) and robotics control architectures. The lab focuses on the practical implementation of autonomous robot control on a real mobile robot using behavior-based methods in the C language.

**Prerequisite(s):** ECEN 106, ECEN 213.

**ECEN 347 ELECTRICAL ENGINEERING LABORATORY II (1 credit)**

Lab work on electromagnetics, fields and waves, solid state devices and control systems.

**ECEN 350 ELECTRICAL AND COMPUTER ENGINEERING COOPERATIVE EDUCATIONAL EXPERIENCE (1-3 credits)**

For cooperatives primarily technical in nature lasting 4.5 months or greater. Weekly communication and/or final report required. Must be taken during or after the semester in which the Co-op occurs.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**ECEN 352 ELECTRONIC CIRCUITS II (4 credits)**

Operational amplifier circuit design and analysis with emphasis on feedback and stability. Design and analysis of large signal power amplifiers. Other integrated devices such as regulators, comparators, Schmitt triggers, oscillators and active filters.

**Prerequisite(s):** ECEN 222

**ECEN 355 SIGNALS AND LINEAR SYSTEMS (3 credits)**

Continuous and discrete time representations of signals. System modeling and analysis using differential and difference equations. Fourier, Laplace and z transforms. State description of continuous and discrete time transfer functions. The primary mathematical tools used in the analysis of continuous and discrete time systems.

**Prerequisite(s):** ECEN 214

**ECEN 361 ADVANCED ELECTRONICS AND CIRCUITS (3 credits)**

Analog and digital electronics for discrete and integrated circuits. Multistage amplifiers, frequency response, feedback amplifiers, simple filters and amplifiers MOS and bipolar logic gates and families A/D and D/A converters.

**Prerequisite(s):** ECEN 316; not open to non-degree graduate students.

**ECEN 362 DATA AND TELECOMMUNICATIONS TRANSCEIVERS (4 credits)**

Noise and signal distortions in communication systems, impedance matching techniques, high frequency measurement techniques, design of high frequency amplifiers and oscillators, PLL and frequency synthesizers, data synchronization and multiplexing techniques, Antennas and their arrays.

**Prerequisite(s):** ECEN 352; Pre or Coreq.: ECEN 325, ECEN 328

**ECEN 370 DIGITAL LOGIC DESIGN (3 credits)**

Combinational and sequential logic circuits. MSI chips, programmable logic devices (PAL, ROM, PLA) used to design combinational and sequential circuits. CAD tools. LSI and PLD components and their use. Hardware design experience.

**Prerequisite(s):** ECEN 121, not open to non-degree graduate students.

**ECEN 392 INDIVIDUAL STUDY IN ELECTRICAL AND COMPUTER ENGINEERING III (1-3 credits)**

Individual study in a selected electrical, computer or electronics engineering area under the supervision and guidance of a electric and computer engineering faculty member.

**Prerequisite(s):** Junior standing and ECE departmentally approved proposal.

**ECEN 394 SPECIAL TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING III (1-4 credits)**

Special topics in the emerging areas in electrical, computer and electronics engineering which may not be covered in the other courses in the Electrical and Computer engineering curriculum.

**Prerequisite(s):** Junior standing or permission.

**ECEN 398 SPECIAL TOPICS ELECTRICAL ENGINEERING III (1-6 credits)**

Offered as the need arises to treat electrical engineering topics for third-year students not covered in other courses.

**Prerequisite(s):** Permission. Not open to nondegree students.

**ECEN 399 UNDERGRADUATE RESEARCH (1-3 credits)**

Research accompanied by a written report.

**Prerequisite(s):** Electrical engineering seniors or permission., not open to non-degree graduate students

**ECEN 400 ELECTRONIC INSTRUMENTATION (3 credits)**

Applications of analog and digital devices to electronic instrumentation. Includes transducers, instrumentation amplifiers, mechanical and solid state switches, data acquisition systems, phase-lock loops, and modulation techniques. Demonstrations with working circuits and systems. (Cross-listed with ECEN 800)

**Prerequisite(s):** Senior Standing in Engineering or Permission. Not open to non-degree graduate students.

**ECEN 406 POWER SYSTEMS ANALYSIS (3 credits)**

Symmetrical components and fault calculations, power system stability, generator modeling (circuit view point), voltage control system, high voltage DC transmission, and system protection. (Cross-listed with ECEN 806)

**Prerequisite(s):** ECEN 338, not open to non-degree graduate students.

**ECEN 407 POWER SYSTEMS PLANNING (3 credits)**

Economic evaluation, load forecasting, generation planning, transmission planning, production simulation, power plant reliability characteristics, and generation system reliability. (Cross-listed with ECEN 807)

**Prerequisite(s):** ECEN 305, not open to non-degree graduate students.

**ECEN 408 ENGINEERING ELECTROMAGNETICS (3 credits)**

Applied electromagnets: Transmission lines in digital electronics and communication. The quasistatic electric and magnetic fields; electric and magnetic circuits and electromechanical energy conversion. Guided waves; rectangular and cylindrical metallic waveguides and optical filters. Radiation and antennas; line and aperture antennas and arrays. (Cross-listed with ECEN 808)

**Prerequisite(s):** ECEN 306, not open to non-degree graduate students.

**ECEN 410 MULTIVARIATE RANDOM PROCESSES (3 credits)**

Probability space, random vectors, multivariate distributions, moment generating functions, conditional expectations, discrete and continuous-time random processes, random process characterization and representation, linear systems with random inputs. (Cross-listed with ECEN 810)

**Prerequisite(s):** ECEN 305. Not open to non-degree graduate students.

**ECEN 416 MATERIALS AND DEVICES FOR COMPUTER MEMORY, LOGIC, AND DISPLAY (3 credits)**

Survey of fundamentals and application of devices used for memory, logic, and display. Magnetic, superconductive, semi-conductive, and dielectric materials. (Cross-listed with ECEN 816)

**Prerequisite(s):** PHYS 2120, not open to non-degree graduate students.

**ECEN 417 SEMICONDUCTOR FUNDAMENTALS II (3 credits)**

Analysis of BJT's and MOSFET's from a first principle materials viewpoint. Statics and dynamic analysis and characterization. (Cross-listed with ECEN 817)

**Prerequisite(s):** ECEN 421 or ECEN 821. Not open to non-degree graduate students.



**ECEN 420 PLASMA PROCESSING OF SEMICONDUCTORS (3 credits)**

Physics of plasmas and gas discharges developed. Includes basic collisional theory, the Boltzman equation and the concept of electron energy distribution. Results are related to specific gas discharge systems used in semiconductor processing, such as sputtering, etching, and deposition systems. (Cross-listed with ECEN 820)

**Prerequisite(s):** Senior or graduate standing. Not open to non-degree graduate students.

**ECEN 421 PRINCIPLES OF SEMICONDUCTOR MATERIALS AND DEVICES I (3 credits)**

Introduction to semiconductor fundamentals, charge carrier concentration and carrier transport, energy bands, and recombination. PN junction, static and dynamic, and special PN junction diode devices. (Cross-listed with ECEN 821)

**Prerequisite(s):** PHYS 2130. Not open to non-degree graduate students.

**ECEN 424 DIGITAL SIGNAL PROCESSING (3 credits)**

The temporal and spectral analysis of digital signals and systems, the design of digital filters and systems, and advanced systems including multi-rate digital signal processing techniques. (Cross-listed with ECEN 824)

**Prerequisite(s):** ECEN 355

**ECEN 428 POWER ELECTRONICS (4 credits)**

Basic analysis and design of solid-state power electronic devices and converter circuitry. (Cross-listed with ECEN 828)

**Prerequisite(s):** ECEN 304, ECEN 316.

**ECEN 430 WIND ENERGY (3 credits)**

This broad multidisciplinary course will combine engineering principles of both the mechanical/aerodynamical and electrical components and systems, along with economic and environmental considerations for siting and public policy, to appropriately cover the relevant topics associated with all scales of wind energy implementations. (Cross-listed with ECEN 830)

**Prerequisite(s):** Senior standing or permission.

**ECEN 433 MICROPROCESSOR SYSTEM DESIGN (4 credits)**

Microprocessor based systems. Architecture; design and interfacing. Memory design, input/output ports, serial communications, and interrupts. Generating assembly ROM code, assembly/C firmware generation, and designing device drivers. (Cross-listed with ECEN 833)

**Prerequisite(s):** ECEN 310 with grade of C or better and ECEN 332 with grade of C or better.

**ECEN 435 EMBEDDED MICROCONTROLLER DESIGN (4 credits)**

Microcontroller architecture: design, programming, and interfacing for embedded systems. Timing issues, memory interfaces, serial and parallel interfacing, and functions for common microcontrollers. (Cross-listed with ECEN 835)

**Prerequisite(s):** ECEN 433/ECEN 833 with grade of C or better, STAT 3800.

**ECEN 436 ELECTRIC MACHINES (3 credits)**

Provides a solid background in electric machine analysis, covering fundamental concepts, techniques, and methods for analysis and design. Discussion of transformers and presentation of some new systems and applications. (Cross-listed with ECEN 836).

**Prerequisite(s):** PHYS 2120 and ECEN 216

**ECEN 437 PARALLEL AND DISTRIBUTED PROCESS (3 credits)**

Parallel and Distributed Processing concepts, principles, techniques and machines. (Cross-listed with ECEN 837).

**Prerequisite(s):** ECEN 435 or ECEN 835

**ECEN 442 BASIC ANALYTICAL TECHNIQUES IN ELECTRICAL ENGINEERING (3 credits)**

Applications of partial differential equations, matrices, vector analysis, complex variables, and infinite series to problems in electrical engineering. (Cross-listed with ECEN 842)

**Prerequisite(s):** MATH 2350. Not open to non-degree graduate students.

**ECEN 444 LINEAR CONTROL SYSTEMS (3 credits)**

Classical (transfer function) and modern (state variable) control techniques. Both time domain and frequency domain techniques are studied.

Traditional, lead, lag, and PID compensators are examined, as well as state variable feedback. (Cross-listed with ECEN 844)

**Prerequisite(s):** ECEN 304. Not open to non-degree graduate students.

**ECEN 448 DECISION ANALYSIS (3 credits)**

Principles of engineering economy including time value of money, net present value, and internal rate of return. Use of influence diagram and decision tree to structure and analyze decision situations under uncertainty including use of stochastic dominance, value of information, and utility theory. Fundamentals of two-person matrix games including Nash equilibrium. (Cross-listed with ECEN 848)

**Prerequisite(s):** ECEN 305 or STAT 3800.

**ECEN 450 BIOINFORMATICS (3 credits)**

This course examines how information is organized in biological sequences such as DNA and proteins and will look at computational techniques which make use of this structure. During this class various biochemical processes that involve these sequences are studied to understand how these processes effect the structure of these sequences. In the process bioinformatics algorithms, tools, and techniques which are used to explore genomic and amino acid sequences are also introduced. (Cross-listed with ECEN 850)

**Prerequisite(s):** Computer programming language and ECEN 305 or STAT 3800 or equivalent.

**ECEN 451 INTRODUCTION TO VLSI SYSTEM DESIGN (3 credits)**

The concepts, principles, and methodology at all levels of digital VLSI system design and focused on gate-level VLSI implementation. (Cross-listed with ECEN 851).

**Prerequisite(s):** ECEN 310

**ECEN 452 INTRODUCTION TO COMPUTER-AIDED DIGITAL DESIGN (3 credits)**

The concepts, simulation techniques and methodology in computer-aided digital design at system and logic levels. (Cross-listed with ECEN 852)

**Prerequisite(s):** ECEN 310

**ECEN 453 COMPUTATIONAL AND SYSTEMS BIOLOGY (3 credits)**

Provides the required biology primer and covers functional genomics, transcriptomics, differential expression, clustering, classification, prediction, biomarker discovery, pathway analysis and network based approaches to high throughput biological data analysis. Includes the development of databases, algorithms, web-based and other tools regarding management and analysis of life science data. Areas of study include DNA, RNA, and protein sequence analysis, functional genomics and proteomics, 3D macromolecule structure prediction, and systems/network approach. (Cross-listed with ECEN 853).

**Prerequisite(s):** By permission.

**ECEN 454 POWER SYSTEMS OPERATION AND CONTROL (3 credits)**

Characteristics and generating units. Control of generation, economic dispatch, transmission losses, unit commitment, generation with limited supply, hydrothermal coordination, and interchange evaluation and power pool. (Cross-listed with ECEN 854)

**Prerequisite(s):** ECEN 338 or ECEN 838. Not open to non-degree graduate students.

**ECEN 460 LABVIEW PROGRAMMING (3 credits)**

Labview as a programming language and for applications to acquire data, to access the network, control lab instruments, and for video and sound applications. (Cross-listed with ECEN 860)

**Prerequisite(s):** Prior programming experience.

**ECEN 462 COMMUNICATION SYSTEMS (3 credits)**

Mathematical descriptions of signals in communication systems. Principles of analog modulation and demodulation. Performance analysis of analog communication systems in the presence of noise. (Cross-listed with ECEN 862)

**Prerequisite(s):** ECEN 304 and ECEN 305. Not open to non-degree graduate students.

**ECEN 463 DIGITAL SIGNAL PROCESSING (3 credits)**

Discrete system analysis using Z-transforms. Analysis and design of digital filters. Discrete Fourier transforms. (Cross-listed with ECEN 863)

**Prerequisite(s):** ECEN 304. Not open to non-degree graduate students.

**ECEN 464 DIGITAL COMMUNICATION SYSTEMS (3 credits)**

Principles of digital transmission of information in the presence of noise. Design and analysis of baseband PAM transmission systems and various carrier systems including ASK, FSK, PSK. (Cross-listed with ECEN 864)

**Prerequisite(s):** ECEN 462. Not open to non-degree graduate students.

**ECEN 465 INTRODUCTION TO DATA COMPRESSION (3 credits)**

Introduction to the concepts of Information Theory and Redundancy removal. Simulation of various data compression schemes such as Delta Modulation, Differential Pulse Code Modulation, Transform Coding and Runlength Coding. (Cross-listed with ECEN 865)

**Prerequisite(s):** ECEN 305. Not open to non-degree graduate students.

**ECEN 466 TELECOMMUNICATION ENGINEERING I (4 credits)**

Standard telecommunications protocols, architecture of long distance integrated data networks, local area networks, wide area networks, radio and satellite networks. Network management, internetworking, system modeling and performance analysis. (Cross-listed with ECEN 866)

**Prerequisite(s):** ECEN 362; ECEN 461/ECEN 861 prior to or concurrent.

**ECEN 467 ELECTROMAGNETIC THEORY AND APPLICATIONS (3 credits)**

Engineering application of Maxwell's equations. Fundamental Parameters of Antennas, Radiation analysis, and synthesis of antenna arrays. Aperture Antennas. (Cross-listed with ECEN 867)

**Prerequisite(s):** ECEN 306. Not open to non-degree graduate students.

**ECEN 468 MICROWAVE ENGINEERING (3 credits)**

Applications of active and passive devices to microwave systems. Includes impedance matching, resonators, and microwave antennas. (Cross-listed with ECEN 868)

**Prerequisite(s):** ECEN 306. Not open to non-degree graduate students.

**ECEN 469 ANALOG INTEGRATED CIRCUITS (3 credits)**

Analysis and design of analog integrated circuits both bipolar and MOS. Basic circuit elements such as differential pairs, current sources, active loads, output drivers used in the design of more complex analog integrated circuits. (Cross-listed with ECEN 869)

**Prerequisite(s):** ECEN 361. Not open to non-degree graduate students.

**ECEN 470 DIGITAL AND ANALOG VLSI DESIGN (3 credits)**

Introduction to VLSI design techniques for analog and digital circuits. Fabrication technology and device modeling. Design rules for integrated circuit layout. LSI design options with emphasis on the standard cell approach of digital and analog circuits. Lab experiments, computer simulation and layout exercises. (Cross-listed with ECEN 870)

**Prerequisite(s):** ECEN 361. Not open to non-degree graduate students.

**ECEN 471 COMPUTER COMMUNICATION NETWORKS (4 credits)**

This course investigates the standard protocols and hardware solutions defined by the International Standard Organization (ISO) and Institute of Electrical and Electronics Engineers (IEEE) for the computer communications networks. Included are ISO OSI model, IEEE 802.X (Ethernet, token bus, token ring) and Asynchronous Transfer Modals (ATM) networks. (Cross-listed with ECEN 871)

**Prerequisite(s):** ECEN 325

**ECEN 472 IMAGE UNDERSTANDING, PERCEPTION, AND SIGNAL PROCESSING (3 credits)**

Introduces fundamental principles and theory for computer vision, image understanding, and pattern recognition, perception, and signal processing. Specific attention given to analysis of the geometric properties and appearance of objects in images, such as region size, connectedness, topology, color, and texture. (Cross-listed with ECEN 872).

**Prerequisite(s):** ECEN 304 or graduate standing

**ECEN 473 MOBILE AND PERSONAL COMMUNICATIONS (4 credits)**

This course provides basic concepts on mobile and personal communications. Concepts on mobile and personal communications. Modulation techniques for mobile radio, equalization, diversity, channel coding, and speech coding. (Cross-listed with ECEN 873)

**Prerequisite(s):** ECEN 325

**ECEN 474 DIGITAL SYSTEMS (3 credits)**

Synthesis using state machines; design of digital systems; micro programming in small controller design; hardware description language for design and timing analysis. (Cross-listed with ECEN 874)

**Prerequisite(s):** ECEN 370. Not open to non-degree graduate students.

**ECEN 475 SATELLITE COMMUNICATIONS (4 credits)**

The fundamental concepts of satellite communications. Orbits, launching satellites, modulation and multiplexing, multiple access, earth stations, coding, interference and special problems in satellite communications. (Cross-listed with ECEN 875)

**Prerequisite(s):** ECEN 325

**ECEN 476 WIRELESS COMMUNICATIONS (3 credits)**

The fundamental concepts of wireless communications. Basic communications concepts such as multiple access, and spectrum. Propagation, radio, standards, and internetworking. Current issues in wireless communications. (Cross-listed with ECEN 876)

**Prerequisite(s):** ECEN 325 or ECEN 462 prior to or concurrent

**ECEN 477 DIGITAL SYSTEMS ORGANIZATION AND DESIGN (3 credits)**

Hardware development languages, hardware organization and realization, microprogramming, interrupt, intersystem communication, and peripheral interfacing. (Cross-listed with ECEN 877)

**Prerequisite(s):** ECEN 474 or ECEN 874. Not open to non-degree graduate students.

**ECEN 478 PRACTICAL MACHINE LEARNING (3 credits)**

Designed to provide a solid grasp of the methods of machine learning (ML) and how to build powerful ML models for discovering statistical regularities from both structured and unstructured data. Offers an introduction to Deep Learning for Computer Vision and Natural Language Processing. (Cross-listed with ECEN 878).

**Prerequisite(s):** CSCE/ECEN 155E, CSCE 155A, or CSCE 155N

**ECEN 479 OPTICAL FIBER COMMUNICATIONS (4 credits)**

Fundamentals of lightwave communication in optical fiber waveguides, physical description of fiber optic systems. Properties of the optical fiber and fiber components. Electro-optic devices: light sources and modulators, detectors and amplifiers; optical transmitter and receiver systems. Fiber optic link design and specification; fiber optic networks. (Cross-listed with ECEN 879)

**Prerequisite(s):** ECEN 461 or permission

**ECEN 480 INTRODUCTION TO LASERS AND LASER APPLICATIONS (3 credits)**

Physics of electronic transition production stimulated emission of radiation. Threshold conditions for laser oscillation. Types of lasers and their applications in engineering. (Cross-listed with ECEN 880)

**Prerequisite(s):** PHYS 2130

**ECEN 481 ELECTRICAL ENGINEERING CAPSTONE I (3 credits)**

A substantial design project that allows application of electrical engineering skills to a multidisciplinary project. Requires project definition, planning and scheduling, effective written and oral communication of technical ideas, incorporation of realistic constraints and engineering standards, functioning effectively on a multidisciplinary team, and applying new ideas as needed to meet project goals.

**Prerequisite(s):** ECEN 222, ECEN 304, ECEN 306, ECEN 313, and (UNO) ENGL 1160. The ECE department changed its English composition requirements to ENGL 1160 (UNO); ENGL 1160 is required, not technical writing.

**ECEN 482 ANTENNAS AND RADIO PROPAGATION FOR WIRELESS COMMUNICATIONS (4 credits)**

Fundamental theory of antennas and radio propagation for wireless communications. Basic antenna characteristics and various antennas and antenna arrays. Basic propagation mechanisms and various channel models, such as Friis free space model, Hata model, lognormal distribution, and multipath model. Includes practical antenna design for high radio frequency (RF) with modeling software tools such as Numerical Electromagnetic Code (NEC) and ADvanced Design System (ADS). Design projects will be assigned as the main part of course. (Cross-listed with ECEN 882)

**Prerequisite(s):** ECEN 328

**ECEN 483 COMPUTER ENGINEERING CAPSTONE I (3 credits)**

A substantial design project that allows application of computer engineering skills to a multidisciplinary project. Requires project definition, planning and scheduling, effective written and oral communication of technical ideas, incorporation of realistic constraints and engineering standards, functioning effectively on a multidisciplinary team, and applying new ideas as needed to meet project goals. The first in a two semester computer engineering capstone senior design course sequence.

**Prerequisite(s):** ECEN 433; (UNO) ENGL 1160. The ECE department changed its English composition requirements to ENGL 1160 (UNO); ENGL 1160 is required, not technical writing.

**ECEN 484 NETWORK SECURITY (4 credits)**

Network security and cryptographic protocols. Classical encryption techniques, block ciphers and stream cyphers, public-key cryptography, authentications digital signatures, key management and distributions, network vulnerabilities, transport-level security, IP security. (Cross-listed with ECEN 884)

**Prerequisite(s):** ECEN 325

**ECEN 486 APPLIED PHOTONICS (3 credits)**

Introduction to the use of electromagnetic radiation for performing optical measurements in engineering applications. Basic electromagnetic theory and light interaction with matter are covered with corresponding laboratory experiments conducted. (Cross-listed with ECEN 886)

**Prerequisite(s):** ECEN 306 or permission. Not open to non-degree graduate students.

**ECEN 488 WIRELESS SECURITY (4 credits)**

A comprehensive overview on the recent advances in wireless network and system security. Covers security issues and solutions in emerging wireless access networks and systems as well as multihop wireless networks. (Cross-listed with ECEN 888)

**Prerequisite(s):** ECEN 325

**ECEN 491 SPECIAL TOPICS IN ELECTRIC AND COMPUTER ENGINEERING IV (1-4 credits)**

Special topics in the emerging areas of electrical, computer and electronics engineering which may not be covered in the other courses in the electrical, and computer engineering curriculum. (Cross-listed with ECEN 891)

**Prerequisite(s):** Senior standing

**ECEN 492 INDIVIDUAL STUDY IN ELECTRICAL AND COMPUTER ENGINEERING IV (1-3 credits)**

Individual study in a selected electrical, computer or electronics engineering area under the supervision and guidance of a Electrical and Computer Engineering faculty member. (Cross-listed with ECEN 892).

**Prerequisite(s):** Senior or graduate standing and departmentally approved proposal.

**ECEN 495 ELECTRICAL ENGINEERING CAPSTONE II (3 credits)**

A substantial design project that allows application of electrical engineering skills to a multidisciplinary project. Requires project definition, planning and scheduling, effective written and oral communication of technical ideas, incorporation of realistic constraints and engineering standards, functioning effectively on a multidisciplinary team and applying new ideas as needed to meet project goals.

**Prerequisite(s):** ECEN 494

**ECEN 498 SPECIAL TOPICS IN ELECTRICAL ENGINEERING IV (1-6 credits)**

Offered as the need arises to meet electrical engineering topics for fourth-year and graduate students not covered in other courses. (Cross-listed with ECEN 898)

**Prerequisite(s):** Permission.

**ECEN 499 COMPUTER ENGINEERING CAPSTONE II (3 credits)**

Requires the completion of a design project that demonstrates the ability to combine knowledge from individual courses in the program to complete a design task. The capstone design course for the B.S. in computer engineering, electrical engineering and electronics engineering.

**Prerequisite(s):** ECEN 496. Not open to non-degree graduate students.

**ECEN 4220 INTRODUCTION TO PHYSICS AND CHEMISTRY OF SOLIDS (3 credits)**

Introduction to structural, thermal, electrical, and magnetic properties of solids, based on concepts of atomic structure, chemical bonding in molecules, and electron states in solid state devices. (Cross-listed with ECEN 8226).

**Prerequisite(s):** PHYS 2130 or CHEM 3350, MATH 2350 or permission. Not open to non-degree graduate students.

## Emergency Management (EMGT)

### Emergency Management Undergraduate Courses

**EMGT 1000 INTRODUCTION TO EMERGENCY MANAGEMENT (3 credits)**

This course offers a comprehensive introduction to emergency management that equips students with essential knowledge to safeguard households, communities, businesses, and workplaces. In the context of increasing natural and human-induced hazards, the course covers key concepts, including disaster mitigation, preparedness, response, and recovery, which are fundamental phases of emergency management.

**Distribution:** Social Science General Education course

**EMGT 1150 INTRODUCTION TO TRIBAL MANAGEMENT AND EMERGENCY SERVICES (3 credits)**

This course is an introduction to how Tribal history and contemporary governance affect the delivery of emergency management services on Tribal lands as well as how the National Response Framework (NRF) and the National Incident Management System (NIMS) are integrated to provide emergency services. The course focuses on the challenges of implementing the five mission areas of Emergency Management: Mitigation, Preparedness, Prevention, Response, and Recovery for Native American Communities.

**Distribution:** Social Science General Education course and U.S. Diversity General Education course

**EMGT 2020 EMERGENCY MANAGEMENT STRATEGIES AND COMMUNICATION (3 credits)**

This course covers tactical issues, current communication methods, and critical information channels utilized during actual disaster and emergency management field operations. Topics include inter-agency linkages, command and control tactics, National Incident Management System and the Incident Command System, (NIMS-ICS) and other crucial management requirements for successful disaster planning, mitigation, and recovery operations.

**Prerequisite(s):** EMGT 1000 or concurrent.

**EMGT 2050 POLITICAL AND LEGAL FOUNDATIONS IN EMERGENCY SERVICES (3 credits)**

The provision of Emergency Services in contemporary society occurs within an environment of legal requirements and community resource allocation that often requires difficult administrative and political decisions. Successful professionals who control, manage, and operate these services must understand and adhere to the demand and intent of the law. Also, they must master the practical art of politics related to the various community constituents and shareholders who fund and support them, staff them, and utilize them. This course examines the legal aspects and social consequences of emergency management provision. Environmental issues and Occupational Health and Safety policy and programs affecting emergency services are also examined.

**Prerequisite(s):** EMGT 1000 or taken concurrently with EMGT 1000.

**EMGT 2060 FOUNDATIONAL INDIAN LAW & POLICY ISSUES (3 credits)**

This course provides an examination of the federal and tribal legal cases and policies that affect the delivery of critical services on tribal lands. The course will also examine how such case law and resulting policy affects current U.S./Tribal/State relationship, specifically in the area of sovereignty and regulatory jurisdiction of emergency management principles. The student will gain an understanding of the legal obligations of Tribal Government and the emergency manager with regard to disaster response within the legal context of tribal law and policy.

**EMGT 2500 DISASTERS AND VULNERABLE POPULATIONS (3 credits)**

This course is an introduction to the sociological examination of disasters. In the course students will learn about vulnerability in terms of social, economic, political, geographical and cultural factors. Students will investigate how vulnerable groups such as children, elderly, racial and ethnic minorities, and low income, are affected and cope before, during and after hazardous events. Other topics covered include: disaster warning responses, evacuation behavior, survival behavior, roles of volunteers, and disaster impacts.

**Distribution:** U.S. Diversity General Education course and Social Science General Education course

**EMGT 3020 FEDERAL/TRIBAL GOVERNMENT TO GOVERNMENT RELATIONS (3 credits)**

This course will introduce the Federal/Tribal government to government relationship that has evolved through U.S. Supreme Court case law; federal Indian policy; and through the Indian Self Determination and Education Assistance Act of 1975. Specifically, this course will focus on overcoming the challenges of implementing Emergency Management principles between the U. S. and Tribal governments by understanding how the government to government relationship works.

**EMGT 3040 PREPAREDNESS/PLANNING AND RISK MITIGATION (3 credits)**

Provision of emergency and management of emergency services is dependent on extensive planning and preparedness. This process aids in the reduction of loss of property and life in extreme circumstances, even when confronted with a variety of environmental and politically motivated risks. An open society, which becomes ever more highly technological, demonstrates new sources of stress, complicated threats, and complex inter-relationships. Together, these factors present a significant challenge to those tasked with preventing and managing emergencies and disasters. This course provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk analysis and mitigation, and a methodology for the development of comprehensive community risk preparedness planning.

**Prerequisite(s):** EMGT 2020, EMGT 2050, PA 3000 / CRCJ 3000 / SOWK 3000 or concurrent.

**EMGT 3060 EMERGENCY MANAGEMENT IN COMPARATIVE PERSPECTIVE (3 credits)**

Although many of the fundamental elements are similar across countries, there are also important differences in how emergency management is conducted around the world. In this course, we compare and contrast emergency management in different countries. The course is designed to provide students with a general, theoretical, and practical understanding of emergency management in other countries. This knowledge of the history, natural hazards, leadership, culture, experiences, and approaches of different countries will help us make connections and draw lessons for emergency management in the U.S.

**Prerequisite(s):** EMGT 1000 or EMGT 1150

**EMGT 3080 AGENCY COLLABORATION DURING DISASTERS (3 credits)**

Federal, state, and local agency cooperation and interoperability in the provision of emergency management will be studied in this course. Federal, state, and local government authority and roles will be explored in concert with collaborative management programs. The origins of collaborative partnerships will be presented along with introduction of the Emergency Management Assistance Compact, development of volunteer networks, and formation of partnerships with the Citizen Corps, Community emergency Response Teams, the Medical Reserve Corps and Mercy Medical Airlift, and other groups that have the potential to contribute to the emergency management and response effort.

**Prerequisite(s):** EMGT 2020, EMGT 2050, PA 3000 / CRCJ 3000 or concurrent.

**EMGT 4020 PROTECTING AND SUSTAINING TRIBAL ECONOMIES (3 credits)**

This course provides an understanding of unique tribal economies and how they operate under tribal law, constitutions and federal legislation, as well as an appreciation of how vulnerable tribal economies are to man-made and natural disasters. This course will also introduce Emergency Management principles and practices designed to assist tribal governments in protecting and sustaining their economies during crisis events.

**EMGT 4050 INTEGRATION OF CONTEMPORARY ISSUES IN TRIBAL EMERGENCY MANAGEMENT (3 credits)**

This course covers application and integration of Tribal Management and Emergency Service (TMES) principles and practices, as well as contemporary issues affecting Tribal nations and their citizens; recent federal/tribal TMES legislation and case law; Federal/Tribal agency collaborative efforts; TMES Tribal Code development and implementation; and TMES funding resources such as PL 93-638 Contracts, grants and tribal taxation.

**EMGT 4060 DISASTER RESPONSE AND RECOVERY (3 credits)**

This course examines concepts and principles of: 1) community risk assessment, 2) disaster recovery planning, 3) responses specific to fires and natural and man-made disasters, 4) National Incident Management System and the Incident Command System (NIMS ICS), 5) mutual aid and automatic response, 6) training and preparedness, 7) communications, 8) civil disturbances, 9) terrorist threats/incidents, 10) hazardous materials planning, 11) mass casualty incidents, 12) earthquake preparedness, and 13) disaster mitigation and recovery.

**Prerequisite(s):** EMGT 3040 (May be taken concurrently) or by instructor's permission



**EMGT 4200 INTERNSHIP IN EMERGENCY MANAGEMENT (3 credits)**

This course is designed to provide direct work experience in the emergency management field for selected students. This experience will be in a full-time or part-time, preferably paid position, in a highly structured environment. Student will be selected following formal job placement procedures and screening by Emergency Management Faculty and the participating organization. This course is intended for upper level, Emergency Management majors who have been selected following an application and interview process approved by both the School of Public Administration and the intern provider.

**Prerequisite(s):** PA 3000 / CRCJ 3000; EMGT 3040, EMGT 3080, EMGT 4060; Instructor's Permission Required.

**EMGT 4800 SPECIAL READING IN EMERGENCY MANAGEMENT (3 credits)**

This course is intended for upper-level Emergency Management degree students who are pursuing advanced specialized areas of knowledge in Emergency Management. The course is conducted under an independent study format, and subject matter will vary based on the interests of the student. Learning outcome objectives will be established by the instructor and shall remain consistent with Emergency Management curriculum goals. Faculty approval is required prior to registration.

**Prerequisite(s):** Prerequisites will be established by the coordinating instructor to meet the foundational knowledge requirements for the area being studied. Not open to non-degree or non-degree graduate students. Students will need faculty approval.

**EMGT 4900 SPECIAL TOPICS IN EMERGENCY MANAGEMENT (3 credits)**

This course is meant to provide upper-level EMGT students with an in-depth look at current and future issues affecting the Emergency Management industry and industry professionals. Possible topics include disaster case studies, comparative international studies, issues in federalism, and Continuity of Operations (COOP). Subject matter will vary by student interest and by faculty preference. Students may repeat the course for additional academic credit as long as the course topic is not duplicated.

**Prerequisite(s):** Prerequisites will be established by the coordinating instructor to meet the foundational knowledge requirements for the area being studied. Not open to non-degree or non-degree graduate students. Students will need faculty approval.

**EMGT 4910 SPECIAL TOPICS IN EMERGENCY MANAGEMENT (1 credit)**

This course introduces students to a specialized subject matter in the field of emergency management not covered in existing courses. This course may be repeated for different topics up to a maximum of six credit hours.

**EMGT 4950 SENIOR ASSESSMENT (0 credits)**

This assessment tool is part of the EMDS Student Outcomes effort. It is designed to monitor performance and to identify changes needed. Graduating seniors must register for and complete EMGT 4950 - Senior Assessment in the term in which they plan to graduate.

**Prerequisite(s):** Students must register for EMGT 4950 in the term in which they plan to graduate. Not open to non-degree graduate students.

**EMGT 4990 CAPSTONE PROJECT IN EMERGENCY MANAGEMENT (3 credits)**

This course fulfills the Emergency Management Capstone senior project demonstrating expertise on a specific issue area and/or problem in emergency management. The student will be required to construct and execute a research project analyzing a contemporary operational, economic, or managerial issue within emergency management utilizing an appropriate research or analytical methodology. Both a written report and PowerPoint presentation will be presented as part of the course requirements.

**Prerequisite(s):** PA 3000 / CRCJ 3000; EMGT 3040, EMGT 3080, EMGT 4060; Writing in the Discipline course; all with a C- or better; Instructor's Permission Required.

# Engineering (ENGR)

## Engineering Undergraduate Courses

**ENGR 10 FRESHMAN ENGINEERING SEMINAR (0 credits)**

Overview of the engineering field as well as major specific information. Information will be provided to help with transitional needs to UNL and the College of Engineering (time management, study skills, and resources), involvement opportunities (student organizations, research, and study abroad), learning about engineering, and interactive learning to increase non-technical complete engineer competencies. Open only to first-year students considering or admitted to the College of Engineering.

**Prerequisite(s):** First year College of Engineering students. Not open to non-degree graduate students.

**ENGR 15 SPATIAL VISUALIZATION TRAINING (0 credits)**

Develop and improve spatial visualization skills.

**ENGR 20 SOPHOMORE ENGINEERING SEMINAR (0 credits)**

Overview of career opportunities in engineering and construction management. Emphasizes internships, cooperative education and career placement.

**Prerequisite(s):** Not open to non-degree graduate students.

**ENGR 30 TRANSFER STUDENT ENGINEERING SEMINAR (0 credits)**

ENGR 30 is open only to students transferring to the College of Engineering from another institution. Overview of transfer credit analysis, degree audits, career opportunities in engineering and construction management. Emphasis on internships, cooperative education, and career placement.

**Prerequisite(s):** Not open to non-degree graduate students.

**ENGR 100 INTERPERSONAL SKILLS FOR ENGINEERING LEADERS (3 credits)**

Establishes a foundation in communication and leadership skills that is needed for engineering students to be successful in their academic endeavors and future career opportunities. Introduction to the principles and practices of positive interpersonal relationships for leadership development. Self-awareness, awareness of others, effective interpersonal communication, and the building of trust relationships as a basis for understanding and developing leadership.

**Prerequisite(s):** Not open to non-degree graduate students.

**ENGR 101 INTRODUCTION TO ENGINEERING (3 credits)**

Students will examine relevant and practical industrial and commercial engineering applications to gain necessary engineering skills that will help them succeed as a student as well as a professional engineer. A variety of engineering disciplines will be highlighted and discussed, as well as topics in the underlying physical, chemical, and biological scientific principles and processes related to each topic. The class will use a specified focus area that involves real world applications to aid in the conceptualization and learning of the course material. Students will develop engineering problem solving skills; gain expertise and experience using modern engineering and computational tools; and emulate an engineering team atmosphere - each of which can be applied to a profession engineering environment.

**ENGR 191 FRESHMAN ENGINEERING SPECIAL TOPICS (1-3 credits)**

Topics vary.

**ENGR 200 PROFESSIONALISM & GLOBAL PERSPECTIVE (3 credits)**

Enhance essential professional skills for personal and team success through investigating issues in a global context. Explore in-demand professional aptitudes (self-awareness, emotional intelligence, teamwork, communication, and workplace interaction expectations). Through industry/community interaction, explore cultural and business norms and the application of broader perspectives to identify issues/solutions responsive and adaptive to their global context.



**ENGR 220 TECHNICAL COMMUNICATION I (3 credits)**

Introduction to written and oral communication and document design principles and strategies as applied in the sciences and technology. Communications for various audiences and/or purposes and/or situations.

**ENGR 250 ENGINEERING COOPERATIVE EDUCATION (1-12 credits)**

Cooperative education work in a regularly established cooperative education work-study program in any engineering curriculum. Special approval is required to take course for credit hours. C/N only.

**Prerequisite(s):** Sophomore standing; permission of College of Engineering Dean's Office and department chair of student's engineering major. All engineering students participating in cooperative education must register each term prior to commencing work.

**ENGR 291 SOPHOMORE ENGINEERING SPECIAL TOPICS (1-3 credits)**

Topics vary.

**ENGR 300 CREATIVITY AND WRITING FOR ENGINEERS (3 credits)**

Writing technical engineering reports; creative thinking and brainstorming applied to a real engineering problem with individual solutions submitted in report form.

**Prerequisite(s):** ENGL 1160 and Sophomore

**ENGR 301 INTRODUCTION TO NUCLEAR AND RADIATION ENGINEERING CONCEPTS (1 credit)**

History of nuclear development, basic concepts of radiation and radioactivity, radioactive waste management, global warming, and the impact of nuclear power plants. Industrial applications, health, and nuclear medicine. Job opportunities at power plants, graduate school, and national laboratories. Tour of the University of Texas nuclear research reactor and demonstration experiments. (Requires off-campus travel.)

**Prerequisite(s):** Not open to nondegree students

**ENGR 310 UTILIZATION OF NUCLEAR TECHNOLOGIES IN SOCIETY (3 credits)**

The applications of nuclear science to society and the fundamental radiation principles utilized in these applications.

**Prerequisite(s):** Not open to non-degree graduate students.

**ENGR 320 LEADERSHIP, MANAGEMENT, AND ETHICS (3 credits)**

Explore professional leadership, ethics, project management tools and skills, and how to successfully implement and respond to change. In a team based environment, enhance essential professional skills for personal and team success by developing and presenting a responsive proposal considering: client needs, basic project controls and scheduling. Learn about personal styles, motivation and effectively implementing change. Examine ethical dilemmas regarding principles, stewardship, and civics from ethical, legal, and expediency perspectives.

**Prerequisite(s):** Not open to non-degree graduate students.

**ENGR 350 ENGINEERING COOPERATIVE EDUCATION (0-12 credits)**

Cooperative education work in a regularly established cooperative education work-study program in any engineering curriculum. Special approval is required to take course for credit hours. C/N only.

**Prerequisite(s):** Junior standing; permission of College of Engineering Dean's Office and department chair of student's engineering major. All engineering students participating in cooperative education must register each term prior to commencing work.

**ENGR 391 JUNIOR ENGINEERING SPECIAL TOPICS (1-3 credits)**

Topics vary

**ENGR 395 ENGINEERING INTERNSHIP (0-1 credits)**

Provides an opportunity to reflect on experience gained through an internship related to the major field of study and an integral or important part of their program of study. Develop non-technical professional skills through reflective writing assignments. May be repeated.

**Prerequisite(s):** Undergraduate major in the College of Engineering; sophomore standing; permission from instructor.

**ENGR 400 PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY (1 credit)**

Discussions on professionalism and ethics of engineering practice; problems encountered by new graduates.

**Prerequisite(s):** Senior

**ENGR 402 ENERGY SYSTEMS AND RESOURCES (3 credits)**

Energy as a critical component of civilization. The critical role of energy from the economic and political point of view world wide. Energy resources available, the technology to use the resources, the economics of energy production, the environmental consequences of energy use, and energy policy.

**Prerequisite(s):** ENGR 301, not open to nondegree students

**ENGR 410 RADIATION PROTECTION AND SHIELDING (3 credits)**

Basic principles and concepts of radiation protection and shield design. Dosi-metric units and response functions, hazards of radiation doses, radiation sources, basic methods for dose evaluation, and shielding design techniques for photons and neutrons.

**Prerequisite(s):** MECH 4010 or ENGR 421

**ENGR 411 NUCLEAR REACTOR THEORY (3 credits)**

Introduction to neutron diffusion theory, neutron moderation, neutron thermalization, and criticality condition of nuclear reactor.

**Prerequisite(s):** ENGR 310. Not open to non-degree graduate students.

**ENGR 412 NUCLEAR REACTOR ANALYSIS (3 credits)**

Group diffusion method, multiregional reactors, heterogeneous reactors, reactor kinetics, and change in reactivity.

**Prerequisite(s):** ENGR 411. Not open to non-degree graduate students.

**ENGR 420 NUCLEAR REACTOR ENGINEERING (3 credits)**

The physics governing nuclear reactors and the design principles for commercial nuclear power plants. Reactor designs currently operating in the power industry.

**ENGR 450 ENGINEERING COOPERATIVE EDUCATION (0-12 credits)**

Cooperative education work in a regularly established cooperative education work-study program in any engineering curriculum. Special approval is required to take course for credit hours. C/N only.

**Prerequisite(s):** Senior standing; permission of College of Engineering Dean's Office and department chair of student's engineering major. All engineering students participating in cooperative education must register each term prior to commencing work.

**ENGR 460 PACKAGING ENGINEERING (3 credits)**

Investigation of packaging processes, materials, equipment and design. Container design, material handling, storage, packing and environmental regulations, and material selection.

**Prerequisite(s):** CONE 206; MECH 3210; MECH 3730

**ENGR 461 RFID SYSTEMS IN THE SUPPLY CHAIN (3 credits)**

Foundations of Radio Frequency Identification Systems (RFID). The fundamentals of how RFID components of tag, transponder, and antennae are utilized to create RFID systems. Best practices for implementation of RFID systems in common supply operations.

**ENGR 469 TECHNOLOGY, SCIENCE AND CIVILIZATION (3 credits)**

(Lect 2 Dis. 2) This course studies the development of technology as a trigger of change upon humankind, from the earliest tools of Homo Habilis to the advent of the radio telescope in exploring the creation of the universe. The course traces the paths from early science to development of the sciences and technologies that will dominate the new millennium. (869 is for non SET students.) (Cross-listed with ENGR 869).

**Prerequisite(s):** Senior or permission.

**ENGR 481 SUPPLY CHAIN OPTIMIZATION (3 credits)**

Foundations of supply chain network modeling. The concepts that support the economic and service trade-offs in supply chain and logistics management. Using decision support system (DSS) to design optimal logistics network models given data requirements and operational parameters. Using leading software packages to model problems arising in strategic management of logistics networks.

**ENGR 483 LOGISTICS IN THE SUPPLY CHAIN (3 credits)**

The process of planning, implementing and controlling the efficient, effective flow and storage of goods, services and related information from the point of origin to the point of consumption. Domestic transportation systems, distribution centers and warehousing, international logistics, logistic system controls, and reengineering logistics systems.

**ENGR 490 GLOBAL EXPERIENCES IN ENGINEERING (1-3 credits)**

Individual or group educational experience combining classroom lectures, discussions, and/or seminars with field and/or classroom studies in a foreign country. Choice of subject matter and coordination of on- and off-campus activities are at the discretion of the instructor.

**ENGR 491 SENIOR ENGINEERING SPECIAL TOPICS (1-3 credits)**

Topics vary.

**ENGR 4070 PROJECT MANAGEMENT (3 credits)**

Project development, role of the project manager, project selection, project planning, budgeting and cost estimation, project scheduling, and project termination.

## English (ENGL)

### English Undergraduate Courses

**ENGL 1010 INTRODUCTION TO GENRE STUDIES: PROSE (3 credits)**

This course introduces students to the study of short stories, novels, and creative non-fiction (optional; inclusion may vary by instructor).

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 1020 INTRODUCTION TO GENRE STUDIES: POETRY, DRAMA, FILM (3 credits)**

This course introduces students to the study of poetry, drama, and film (optional; inclusion may vary by instructor).

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 1030 US CULTURES IN LITERATURE (3 credits)**

The course introduces students to literary texts representing diverse U.S. groups: their ideologies, norms, and behaviors. Students will study conventions of various genres; ways in which those genres portray group identities; and attitudes toward group identities. Students will engage with texts through analysis, interpretation, and personal reflection.

**Prerequisite(s):** Placement of 4 or higher on the English Placement and Proficiency Exam (EPPE)

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**ENGL 1090 ENGLISH AS A SECOND LANGUAGE I (3 credits)**

This class is an intermediate writing-intensive course that will help students learn about the nature of the academic essay in American university settings; it is intended for students whose language of nurture is not English. Students receive intensive instruction in vocabulary and grammatical conventions appropriate for writing in a variety of disciplines as they engage in expository essay writing. In addition, students study the conventions of a thesis-driven argument and appropriate use of evidence to support their assertions.

**Prerequisite(s):** A Score  $\geq$  500 on the paper TOEFL, 61 on the Internet TOEFL, 6.0 on the IELTS, 44 on the PTE (Pearson Test of English), or a placement of 2 (ENGL 1090) by Dept of English diagnostic examination (called the English Placement and Proficiency Exam or EPPE).

**ENGL 1100 ENGLISH AS A SECOND LANGUAGE II (3 credits)**

This class is an advanced writing-intensive course in which students learn about the nature of the academic essay in American university settings; it is intended for students whose language of nurture is not English. Through a study of cultural rhetorics, students become acclimated to the more advanced academic environments they will encounter in American universities and learn the conventions of the writing they will be asked to perform in their major courses, for example, research standards demanded by US professors, including appropriate selection and integration of sources into a student's own writing and navigation of an academic library.

**Prerequisite(s):** Placement of 3 (ENGL 1100) by Department of English diagnostic examination (called the English Placement and Proficiency Exam or EPPE), or C- or better in ENGL 1090

**ENGL 1140 ENGLISH COMPOSITION I WITH SUPPORT (4 credits)**

Instruction and practice in academic literacy practices, especially writing summaries, analyses, and critical essays in response to assigned texts. ENGL 1140 is designed to give students extra support needed to fully develop their writing skills and is equivalent to ENGL 1150.

**Prerequisite(s):** Students with a composite ACT of  $<14$ ; or SAT  $<761$ ; or a high school GPA of  $<2.3$ ; or who have successfully completed ENGL1090 ESL I with a C- or better; or TOEFL ITP 500-525, TOEFL iBT 58-69, or IELTS 6-6.5; EPPE of 3 or 4.

**Distribution:** Fundamental Academic Skills-Composition 1

**ENGL 1150 ENGLISH COMPOSITION I (3 credits)**

Instruction and practice in academic literacy practices, especially writing summaries, analyses, and critical essays in response to assigned texts. Rhetorical strategies, genre awareness, and language diversity are also taught. (Cross-listed with ENGL 1154).

**Prerequisite(s):** ACT Composite score of 14-26; SAT score of 761-1240; AP score of 3 in English Literature and Composition/AP English Literature and Composition; IELTS 7; TOEFL 526-600; TOEFLiBT 70-94; or EPPE of 5.

**Distribution:** Fundamental Academic Skills-Composition 1

**ENGL 1154 ENGLISH COMPOSITION I (3 credits)**

Instruction and practice in academic literacy practices, especially writing summaries, analyses, and critical essays in response to assigned texts. Rhetorical strategies, genre awareness, and language diversity are also taught. (Cross-listed with ENGL 1150).

**Prerequisite(s):** ACT Composite score of 14-26; SAT score of 761-1240; AP score of 3 in English Literature and Composition/AP English Literature and Composition; IELTS 7; TOEFL 526-600; TOEFLiBT 70-94; or EPPE of 5.

**Distribution:** Fundamental Academic Skills-Composition 1

**ENGL 1160 ENGLISH COMPOSITION II (3 credits)**

Instruction and practice in academic inquiry, research as discovery, academic exploration, source/information literacy, research process, and academic argument. (Cross-listed with ENGL 1164).

**Prerequisite(s):** Score of 4 in AP English Language and Composition/English Literature and Composition; 29+ on ACT Reading or English; 27+ ACT Composite; 1260+ on SAT; IELTS 7.5+; TOEFL 601+; TOEFLiBT 95+; C- or better in ENGL1140/1150; or EPPE of 6.

**Distribution:** Fundamental Academic Skills-Composition II

**ENGL 1164 ENGLISH COMPOSITION II (3 credits)**

Instruction and practice in academic inquiry, research as discovery, academic exploration, source/information literacy, research process, and academic argument. (Cross-listed with ENGL 1160).

**Prerequisite(s):** Score of 4 in AP English Language and Composition/English Literature and Composition; 29+ on ACT Reading or English; 27+ ACT Composite; 1260+ on SAT; IELTS 7.5+; TOEFL 601+; TOEFLiBT 95+; C- or better in ENGL1140/1150; or EPPE of 6.

**Distribution:** Fundamental Academic Skills-Composition II

**ENGL 1200 AUTOBIOGRAPHICAL READING AND WRITING (3 credits)**

This course helps students to write effectively by focusing on their own personal experience and by examining a variety of autobiographical writings. Students are exposed to multicultural perspectives throughout the course.

**Prerequisite(s):** Composite ACT of <14; or SAT <761; or a high school GPA of <2.3; or successful completion of ENGL 1090 ESL I with a C- or better; or TOEFL ITP 500-525, TOEFL iBT 58-69, or IELTS 6-6.5; EPPE of 3 or 4. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 2000 TOPICS IN LANGUAGE AND LITERATURE (3 credits)**

A variety of topics primarily for the non-major. (For example, this course might study the image of the American businessman in American literature.) One or two such topics may be offered each term, depending upon current student interest and available faculty. Students should consult each term's class schedule in order to determine the specific topics for that term. (Cross-listed with WGST 2000 when topic is appropriate).

**Prerequisite(s):** Variable according to topic.

**ENGL 2020 WOMEN'S, GENDER, & SEXUALITY STUDIES IN THE HUMANITIES (3 credits)**

An introduction to gender, sexuality, and women's studies in the humanities, exploring both historical and contemporary representations of women and sexual/gender minorities in literature, film, fine arts, performance arts, religion, history, and philosophy.

**Prerequisite(s):** None; ENGL 1150 recommended.

**ENGL 2110 INTRODUCTION TO CREATIVE NONFICTION WRITING (3 credits)**

ENGL 2110 is an introduction to creative nonfiction writing. This course focuses on the study and analysis of creative nonfiction, which will focus primarily on the foundational elements of creative nonfiction writing, including characterization, dialogue, mood, rhythm and style, point-of-view, and voice.

**Prerequisite(s):** ENGL 1150, ENGL 1154, or equivalent, or special permission from instructor. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 2160 HONORS COMPOSITION: REASON AND RESEARCH (3 credits)**

Instruction and practice in academic inquiry, especially researching, analyzing, and writing arguments. A variant of Composition II for honors students.

**Prerequisite(s):** Reserved for students in the Honors Program. Admission to the Honors Program and placement of 6 on the English Proficiency Placement Exam (EPPE), grade of C- or better in Composition I, or permission of the Honors Program.

**Distribution:** Fundamental Academic Skills-Composition II

**ENGL 2230 SOCIO-CULTURAL REPRESENTATIONS IN LITERATURE (3 credits)**

An introduction to the literature of Native Americans, black Americans, Hispanic Americans (Chicanos, Puerto Ricans or Cubans), and Asian Americans (Chinese and Japanese). Explains and defines cultural terms and practices, and attempts to prepare students for multicultural living.

**Prerequisite(s):** ENGL 1160 or permission.

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**ENGL 2250 THE SHORT STORY (3 credits)**

Readings in the modern short story with particular attention to literature as a reflection of life and to form as an outgrowth of content.

**Prerequisite(s):** ENGL 1160 / ENGL 1164 or permission.

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 2260 BLACK SHORT STORY (3 credits)**

A study of short stories written by black American authors as literature and as experience. The course explains and defines cultural terms and practices, and attempts to prepare students for multicultural living. (Cross-listed with BLST 2260).

**Prerequisite(s):** ENGL 1150, ENGL 1154, or permission of instructor.

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**ENGL 2280 INTRODUCTION TO LANGUAGE (3 credits)**

A study of the nature of language and its role in human affairs.

**Prerequisite(s):** ENGL 1160 or permission.

**Distribution:** Social Science General Education course

**ENGL 2310 INTRODUCTION TO BRITISH LITERATURE I (3 credits)**

A survey of British literature from c.600 to the end of the 18th century.

**Prerequisite(s):** ENGL 1160 or permission

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 2320 INTRODUCTION TO BRITISH LITERATURE II (3 credits)**

A survey of English literature from the Romantic period to the present.

**Prerequisite(s):** ENGL 1160 or permission

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 2350 AFRICAN AMERICAN LITERATURE 1746-1939 (3 credits)**

This course traces the development of black literature from 1746 to 1939.

Included will be a study of multiple genres including: poetry, short story, novel, drama, and nonfiction. Trends to be studied will include early black writers, neoclassic and romantic traditions, and the Harlem Renaissance and Depression era schools of thought. (Cross-listed with BLST 2350).

**Prerequisite(s):** ENGL 1160 or permission.

**ENGL 2360 AFRICAN AMERICAN LITERATURE 1940-PRESENT (3 credits)**

This course traces the development of the literary contribution that black Americans have made from 1940 to the present. The course will study multiple genres including: poetry, short story, novel, drama, and nonfiction. Trends to be studied include an evolution in resistance in writing, a movement toward literary assimilation in the 1940s-1950s, and the subsequent movement toward "Black Arts" from the 1960s to the present. (Cross-listed with BLST 2360).

**Prerequisite(s):** ENGL 1160 or instructor permission

**ENGL 2400 ADVANCED COMPOSITION (3 credits)**

This course is an advanced study of writing, including careful examination of 1) written genres generally, 2) discourse conventions of a student's academic discipline, and 3) a student's own reading and writing strategies, processes, habits, and preferences. Students will develop understanding of how writing functions in academic and professional communities as well as gain proficiency in discipline-specific research and writing, including identification of audience and rhetorical situation.

**Prerequisite(s):** ENGL 1160 or permission

**Distribution:** Writing in the Discipline Single Course

**ENGL 2410 CRITICAL APPROACHES TO LITERATURE (3 credits)**

An introduction to research, theory, and writing about literary and cultural studies; includes, but is not limited to, reading literary works and a variety of critical interpretations of those works, specialized library research, learning the discipline's documentation style, and writing in diverse genres (e.g. synopses, abstracts, poetry explications, prose analyses, reviews, essay exams and research papers).

**Prerequisite(s):** ENGL 1160

**Distribution:** Writing in the Discipline Single Course

**ENGL 2420 CRITICAL APPROACHES TO LANGUAGE STUDIES (3 credits)**

This course introduces students to Language Studies, including disciplinary theories and discourses, key issues, and methodologies in rhetoric, composition, technical communication, and linguistics. Students will also practice and become familiar with the writing conventions within Language Studies.

**Prerequisite(s):** ENGL 1160.

**Distribution:** Writing in the Discipline Single Course

**ENGL 2450 AMERICAN LITERATURE I (3 credits)**

A survey of American literature to the Civil War.

**Prerequisite(s):** ENGL 1160 or permission of instructor.

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 2460 AMERICAN LITERATURE II (3 credits)**

A survey of American literature since the Civil War.

**Prerequisite(s):** ENGL 1160 or permission.

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 2470 SURVEY OF NATIVE AMERICAN LITERATURE (3 credits)**

An introduction to the literature of the oral tradition among the Native American peoples and to the written literature of post-contact and contemporary times.

**Prerequisite(s):** ENGL 1160 or permission.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**ENGL 2480 THE AMERICAN LANGUAGE (3 credits)**

A study of the historical development, current condition, and diversity of English language varieties in America, including both linguistic and sociocultural factors that have influenced them.

**Prerequisite(s):** ENGL 1160 or permission

**Distribution:** U.S. Diversity General Education course

**ENGL 2490 LATINO/A LITERATURE (3 credits)**

This course is an introduction to contemporary literature by Latinos/as in the United States, providing an overview of Mexican American, Chicano/a, and other Latino/a voices in American literature from the mid-19th Century to the present.

**Prerequisite(s):** ENGL 1160 or by permission of the instructor. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**ENGL 2500 LITERATURE OF WESTERN CIVILIZATION: THE ANCIENT WORLD (3 credits)**

A study of European literature in English translation. Includes the works of such writers as Homer, Sophocles, Sappho, Virgil, Horace, Ovid and St. Augustine.

**Prerequisite(s):** ENGL 1160 or permission.

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 2510 GLOBAL EXPLORATIONS: MEDIEVAL TO EARLY MODERN WORLD (3 credits)**

A study of world (excluding English) literature and culture in English translation. May include the study of Norse mythology, medieval Jewish and Muslim writers of southern Spain, or the works of such writers as Dante, Chretien de Troyes, Averroes (Ibn Rushid), Maimonides, Christine de Pisan, Maria de Zayas, or Rousseau.

**Prerequisite(s):** ENGL 1150 or permission

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**ENGL 2520 LITERATURE OF WESTERN CIVILIZATION: THE MODERN WORLD (3 credits)**

A study of the modern period in European literature (exclusive of English literature) from the 18th century Romantic movement to recent 20th century developments, including writings from Rousseau through Solzhenitsyn.

**Prerequisite(s):** ENGL 1160 or permission

**ENGL 3000 SPECIAL TOPICS IN ENGLISH (3 credits)**

This course introduces students to a specialized subject matter in the disciplines of English Studies not covered in existing courses. This course may be repeated for different topics.

**Prerequisite(s):** Variable according to topic.

**ENGL 3050 WRITING FOR THE WORKPLACE (3 credits)**

In this course students learn to write polished, professional communication, focusing content for specific audiences and contexts. Instruction stresses audience and situational analysis, clarity, and professional tone and style as well as elements of format and pattern, research, and revision techniques.

**Prerequisite(s):** ENGL 1160, ENGL 1164, or permission of instructor

**Distribution:** Writing in the Discipline Single Course

**ENGL 3100 NATIVE AMERICAN LITERATURE: MAJOR FIGURES (3 credits)**

An in-depth study of elements of Native American literature or of particular poets, novelists, biographers or short story writers.

**Prerequisite(s):** ENGL 1160 or permission

**ENGL 3130 AMERICAN NONFICTION (3 credits)**

This is an intermediate literature course intended to give students broad exposure to American nonfiction. Students will study and analyze a variety of literary forms, including the personal essay, memoir, and literary journalism, from a wide range of historical periods.

**Prerequisite(s):** ENGL 1160 or equivalent. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 3150 FORM AND STYLE IN CREATIVE NONFICTION (3 credits)**

This is an introduction to creative nonfiction. This course focuses on the study and analysis of the art of creative nonfiction and its various subgenres: personal essay, memoir, literary journalism, travel writing, segmented/collage essay, and literary/cultural analysis.

**Prerequisite(s):** ENGL 1160 or ENGL 1164 or a composition II equivalent. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

**ENGL 3170 SUCCESSFUL FREELANCE JOURNAL WRITING (3 credits)**

This course will address the steps necessary to successful freelance writing: selecting an interesting topic, choosing an innovative angle, understanding audience, researching a suitable publication, drafting a compelling query, editing work and rewriting all or parts of the essay, working with editors, understanding and accepting rejection letters. Ultimately, students in this course will work toward the end goal of submitting their polished work for publication in both paying and non-paying markets.

**Prerequisite(s):** ENGL 1150 and ENGL 1160 or equivalents

**ENGL 3180 GENDER IDENTITY IN PERSONAL WRITING (3 credits)**

Students will read a variety of memoirs and personal essays by both emerging and established LGBTQIA+ creative nonfiction writers and allies, with a focus on trans writers; analyze the craft choices each author makes; analyze textual and theoretical explorations of gender identity and gender performativity; and explore their gender identities, and gender experiences in the essays that they compose. (Cross-listed with WGST 3180).

**Prerequisite(s):** ENGL 1150 and ENGL 1160 or equivalents required.

**ENGL 3280 IRISH LITERATURE I (3 credits)**

This course explores Irish literature from the early medieval period (c. 600) to the late nineteenth century and the Irish Literary Renaissance. Texts include works written in Irish as well as in English, and cover a variety of genres, including but not limited to: early medieval monastic nature poetry, medieval prose saga literature, the Irish bardic and aisling traditions, political satire and laments, Anglo-Irish Ascendancy novels, and the Irish Gothic.

**Prerequisite(s):** ENGL 1160 or permission required; ENGL 2410 and ENGL 2310 recommended.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course



**ENGL 3290 IRISH LITERATURE II (3 credits)**

A survey of Irish literature in both English and Irish from the beginning of the Irish Literary Renaissance (c. 1880) to the present.

**Prerequisite(s):** ENGL 1160 or permission required; ENGL 2410, and ENGL 2320 or ENGL 3280 recommended. Not open to non-degree graduate students.

**Distribution:** Global Diversity General Education course

**ENGL 3300 JUNIOR TOPICS IN AMERICAN LITERATURE (3 credits)**

This course is an introduction to topics in American literature, to include colonial, modern, and postmodern literature and also Native American and immigrant/diaspora literature written in English or read in translation. Readings will vary according to the topic specified.

**Prerequisite(s):** ENGL 2410 or ENGL 2420

**ENGL 3400 JUNIOR TOPICS IN BRITISH/IRISH/ANGLOPHONE LITERATURE (3 credits)**

This course introduces students to topics in British or Irish literature or the literature of the former British commonwealths. Readings will vary according to the topic specified.

**Prerequisite(s):** ENGL 2410 or ENGL 2420. Not open to non-degree graduate students.

**ENGL 3500 JUNIOR TOPICS IN GLOBAL LITERATURE (3 credits)**

Topics in world literature, to include trans-national and trans-continental literature written in English or read in translation. Readings will vary according to the topic specified.

**Prerequisite(s):** ENGL 2410 or ENGL 2420. Not open to non-degree graduate students.

**ENGL 3610 INTRODUCTION TO LINGUISTICS (3 credits)**

An introduction to the concepts and methodology of the scientific study of language; includes language description, history, theory, variation, and semantics as well as first and second language acquisition. (Cross-listed with ENGL 8615).

**Prerequisite(s):** ENGL 1160 or equivalent.

**Distribution:** Social Science General Education course and U.S. Diversity General Education course

**ENGL 3770 WRITING CENTER THEORY, PEDAGOGY, AND RESEARCH (3 credits)**

This course is an introduction to writing center theory, pedagogy, research, and history. The course is designed for undergraduate and graduate students interested in or already working in a writing center. Throughout the course we will explore a wide range of models for writing center work and the often problematic metaphors associated with those models. The overall aim in this course will be to help students develop multiple strategies for teaching writing one-to-one, for conducting research in writing centers, and for understanding writing center administration. (Cross-listed with ENGL 8775).

**ENGL 3800 JUNIOR TOPICS IN LANGUAGE STUDIES (3 credits)**

This is a special topics course in language studies intended primarily for juniors in the English major. Topics include specific study in the areas of composition, rhetoric, technical communication, and/or linguistics, and will often include considerations of other cultures and languages. Readings may vary according to the topic.

**Prerequisite(s):** ENGL 2410 or ENGL 2420. Not open to non-degree graduate students.

**ENGL 3980 TECHNICAL WRITING ACROSS THE DISCIPLINES (3 credits)**

This course emphasizes the problem-solving processes of producing effective written documents and visuals in technical professions. Students will study the genres, situations, and audiences related to professional settings, the contexts in which writing occurs, the process involved in individual and collaborative projects, and the production of technical documents.

**Prerequisite(s):** ENGL 1160 or permission

**Distribution:** Writing in the Discipline Single Course

**ENGL 4020 AMERICAN POETRY TO 1900 (3 credits)**

A comprehensive survey of the American poetic tradition from the 17th to the end of the 19th century. (Cross-listed with ENGL 8026).

**Prerequisite(s):** ENGL 2410 or ENGL 2420, or another writing in the major course recommended.

**ENGL 4030 AMERICAN POETRY SINCE 1900 (3 credits)**

A survey of the American poetic tradition from the turn of the twentieth-century to the present, focusing on various "schools" such as Imagism, High Modernism, the Harlem Renaissance, Confessional, Beats, and New Formalism. (Cross-listed with ENGL 8036).

**Prerequisite(s):** ENGL 2410 or ENGL 2420, or other writing in the major course recommended.

**ENGL 4060 THE AMERICAN NOVEL (3 credits)**

A comprehensive survey of the evolution of the American Novel from the 1780s to the present day. Special emphasis will be placed on how a broad range of authors have responded to changing cultural and historical circumstances, and on how they have expressed widely varying viewpoints depending on their own gender, race, geographic region, and/or ethnicity. (Cross-listed with ENGL 8066).

**Prerequisite(s):** ENGL 1150 and 1160; ENGL 2410 recommended

**ENGL 4140 AMERICAN LITERARY REALISM AND NATURALISM (3 credits)**

In the late nineteenth and early twentieth century two major literary genres - Realism and Naturalism - emerged in the United States not only to challenge the primacy of Romanticism and its generally optimistic view of life but also to actively engage with the modern America created after the Civil War. This course examines a wide range of realist and naturalist works, written between 1865 and 1914, by an extremely diverse group of male and female authors from different races, ethnicities, regions, religions, and socioeconomic classes. Emphasis will be placed on how various cultural, economic, political, and social factors influenced the construction and reception of these works. (Cross-listed with ENGL 8146).

**Prerequisite(s):** ENGL 2410 or ENGL 2420, and ENGL 2450 or ENGL 2460.

**ENGL 4160 TOPICS IN AMERICAN REGIONALISM (3 credits)**

A study of major topics in American literary regionalism, with special emphasis on particular social, cultural, and geographical contexts. Focus will be determined by instructor, but may include particular historical periods, geographic regions, authors, or literary themes. (Cross-listed with ENGL 8166).

**Prerequisite(s):** ENGL 1150 and ENGL 1160 or equivalent; ENGL 2410 highly recommended.

**ENGL 4190 THE AMERICAN NIGHTMARE (3 credits)**

The literature in this course represents and explores major trends that subvert America's fascination with the "American Dream" narrative and even contend its opposite, an "American Nightmare." Over the twentieth century, many writers expressed a disillusionment with the breach that separates experiences in America from the "America" idealized by narratives of the founding roots and the constructed American Dream. Writers who have experienced or witnessed the marginalization or helplessness of large portions of the American population write in a variety of ways about the failures of this American Dream narrative. This course will analyze these expressions in American literature. (Cross-listed with ENGL 8196).

**Prerequisite(s):** ENGL 1160 or permission.



**ENGL 4210 THE HARLEM RENAISSANCE (3 credits)**

"The Harlem Renaissance" was the name given to the explosion in cultural, artistic, and social awareness that occurred primarily in Harlem, an area of New York City, between the end of World War I and the middle of the 1930s. This course will familiarize students with the general characteristics of African American literature produced during this period and its relation to African American literature and American literature writ large. The selected texts and writers will provide particular insight into the historical experiences of African Americans in the U.S. primarily between the two world wars and inform the subsequent cultural production of African Americans in later years. (Cross-listed with ENGL 8216, BLST 4210, BLST 8216).

**Prerequisite(s):** ENGL 1150 or ENGL 1160, ENGL 2410 recommended

**ENGL 4230 LATINO LITERATURE (3 credits)**

A study of representative works of Mexican-American, Spanish-American, and American writers, along with their cultural and historical antecedents. Formerly ENGL 4180/8186 Chicano Literature and Culture. (Cross-listed with ENGL 8236).

**Prerequisite(s):** ENGL 2410 or ENGL 2420

**ENGL 4240 TEACHING LATINO LITERATURE (3 credits)**

This course is designed specifically for current or future teachers of high school students. It introduces pedagogical approaches of contemporary literature by Latinos/as in the United States. The course provides an overview of Mexican American, Chicano/a, and other Latino/a voices in American literature from mid-19th Century to the present and complement that with social, cultural, historical and other approaches to developing teaching strategies. (Cross-listed with ENGL 8246)

**Prerequisite(s):** ENGL 1160 or permission.

**Distribution:** U.S. Diversity General Education course

**ENGL 4250 WOMEN'S STUDIES IN LITERATURE (3 credits)**

A critical study of literature by and/or about women in which students learn about contributions of women to literature, ask what literature reveals about the identity and roles of women in various contexts, and evaluates standard interpretations from the perspectives of current research and individual experience. (Cross-listed with ENGL 8256, WGST 4250).

**Prerequisite(s):** ENGL 1160; ENGL 2410 or ENGL 2420 recommended.

**ENGL 4260 WOMEN OF COLOR WRITERS (3 credits)**

Women of Color Writers is designed to introduce students to the multicultural, literary experience and contributions of women of color writers. The course will elucidate the multi-ethnic and feminist/womanist perspectives reflected in literary works by examining the themes, motifs and idioms about a womanist perspective. The course examines critically the implications and conceptual grounds of literary study which have been based almost entirely on white, male literary experiences and criteria. (Cross-listed with ENGL 8266).

**Prerequisite(s):** English major. ENGL 1150 or ENGL 11160 required; ENGL 2410 highly recommended

**ENGL 4270 WOMEN WRITERS OF THE NORTH AMERICAN WEST (3 credits)**

A survey of U.S. and Canadian women writers (18th century to the present) enabling students to examine issues of gender and sexuality across a wide thematic range, including settlement, land use, cultural displacement, and survival in western territories, states, and provinces of North America. (Cross-listed with ENGL 8276, WGST 4270).

**Prerequisite(s):** ENGL 1150 and ENGL 1160 or equivalent; completion of ENGL 2410 or other writing in the major course recommended.

**ENGL 4280 QUEER AMERICAN WESTS (3 credits)**

A survey of queer literatures about the American West. The course will explore a variety of genres, including poetry, short stories, plays, novels, creative nonfiction, and, depending on time, film/television. "Queer" will be construed as including any "non-normative" sexualities and sexual identities (e.g., genderqueer, winkle, two-spirit, 3rd/4th gender). Non-western writers (e.g., Walt Whitman) imagining the West queerly may also be included. (Cross-listed with ENGL 8286, WGST 3160).

**Prerequisite(s):** ENGL 1160; completion of writing in the major course recommended.

**ENGL 4300 ANGLO-SAXON LITERATURE (3 credits)**

From the sixth to the eleventh centuries, a people known collectively as the Anglo-Saxons ruled Britain, giving it a new name and establishing the roots of the modern English language. Anglo-Saxon culture continues to haunt the modern imagination. We study the historic, artistic and intellectual environment that produced this influential literary tradition. We also place these people, their language, and their writings within the context of the broader early medieval world. Finally, we engage with some of the foremost modern scholars of this fascinating culture. (Cross-listed with ENGL 8306).

**Prerequisite(s):** ENGL 1160 and ENGL 2410 or ENGL 2420; ENGL 2310 recommended; or instructor permission

**ENGL 4320 CHAUCER (3 credits)**

A literary, linguistic, and historical study of the works of Geoffrey Chaucer: his dream visions, Troilus and Criseyde, and the Canterbury Tales. (Cross-listed with ENGL 8326).

**Prerequisite(s):** ENGL 2310 or ENGL 2320 or permission.

**ENGL 4330 RENAISSANCE SATIRE (3 credits)**

Satirical traditions and the literature of critique and invective as inherited from medieval and classical forms. Considerations will include satire as an aesthetic, philosophical, and political mode of expression; topicality as it relates to and portrays cultural history; and self-representation through humanist learning and response. (Cross-listed with ENGL 8336).

**Prerequisite(s):** ENGL 1160 or equivalent. ENGL 2410 or ENGL 2420 and ENGL 2310 are recommended.

**ENGL 4340 SHAKESPEARE (3 credits)**

A critical study of selected plays and poetry from Shakespeare's works, in the context of the historical and cultural moment of the English Renaissance and as a set of texts inherited and reinvented by modernity. (Cross-listed with ENGL 8346).

**Prerequisite(s):** ENGL 1160; ENGL 2410 or ENGL 2420 and ENGL 2310 are recommended.

**ENGL 4370 RESTORATION AND EIGHTEENTH CENTURY LITERATURE (3 credits)**

Poetry, prose (exclusive of the novel), and drama of England in the Restoration and 18th century (1660-1800), with emphasis on Swift and Johnson. Formerly ENGL 4620/8626. (Cross-listed with ENGL 8376).

**Prerequisite(s):** ENGL 2310 or ENGL 2320 or permission.

**ENGL 4380 THE EIGHTEENTH CENTURY ENGLISH NOVEL (3 credits)**

Readings in the English novel from Daniel Defoe to Jane Austen. Formerly ENGL 4640/8646. (Cross-listed with ENGL 8386).

**Prerequisite(s):** ENGL 2310 or ENGL 2320

**ENGL 4390 MEDIEVAL CELTIC LITERATURE (3 credits)**

This course examines the literature and culture of the Celtic civilizations. The course examines the archeological record and texts about the Celts by Greek and Roman authors, as well as later medieval tales from the Irish, Welsh, and Breton traditions. All texts are in translation with guided reference to the original languages. (Cross-listed with ENGL 8396).

**Prerequisite(s):** ENGL 2410 or ENGL 2420 and one ENGL course above 3299; or instructor permission; ENGL 2310 recommended. Not open to non-degree graduate students.

**ENGL 4400 KING ARTHUR THROUGH THE AGES (3 credits)**

Starting with post-medieval selections from the Arthurian corpus, this course follows Arthur back through his many literary incarnations, until we reach the "historical" Arthur (c.1000). We consider the different aesthetic additions, subtractions, and changes made to this secular king of kings within the social and historical contexts of each reincarnation. We also examine Arthur in other media, such as film, with divergent artistic agendas. These other media, too, will be considered within their social and historical contexts in terms of what they have to say about what modern audiences look for in their versions of Arthur and the stories from the Arthurian corpus. All texts are in translation, with guided reference to the original languages. (Cross-listed with ENGL 8406).

**Prerequisite(s):** ENGL 1160 and ENGL 2410 or ENGL 2420; ENGL 2320 recommended; or instructor permission

**ENGL 4410 LITERATURE OF THE ROMANTIC PERIOD (3 credits)**

This course surveys literary works published in the Romantic period (roughly, 1789-1832), focusing specifically on those by British, Irish, and Anglophone authors. It considers what these works signify about literary as well as cultural, political, and historical events, movements, or trends. (Cross-listed with ENGL 8416).

**Prerequisite(s):** ENGL 1160; ENGL 2320 recommended.

**ENGL 4420 NINETEENTH-CENTURY ENGLISH AND ANGLOPHONE LITERATURES (3 credits)**

English and Anglophone poetry and prose (excluding the novel) in the nineteenth century. (Cross-listed with ENGL 8426).

**Prerequisite(s):** ENGL 2320 or permission

**ENGL 4430 THE BRITISH AND ANGLOPHONE NOVEL (19TH AND 20TH CENTURY) (3 credits)**

Introduction to the British and Anglophone novel in the nineteenth and twentieth century. (Cross-listed with ENGL 8436).

**Prerequisite(s):** ENGL 2320 or permission of the instructor

**ENGL 4440 BRAM STOKER: BEYOND DRACULA (3 credits)**

This course examines several major works from Stoker's literary oeuvre: The Snake's Pass (1890), Dracula (1897), The Jewel of Seven Stars (1903), The Lady of the Shroud (1909), and The Lair of the White Worm (1911) and selected short stories. Stoker is one of the more complex figures among the Anglo-Irish literary tradition, so the author and his writing is placed within the social and cultural contexts of late 19th and early 20th century Ireland and England, as well as within broader literary theoretical frameworks - psychoanalytic, gender, and postcolonial criticism among them - for which Stoker's tales continue to provide such rich fodder. (Cross-listed with ENGL 8446).

**Prerequisite(s):** ENGL 1160 and ENGL 2410 or ENGL 2420; ENGL 2320 recommended; or instructor permission

**ENGL 4450 MODERN IRISH DRAMA (3 credits)**

A survey of the major movements and significant figures associated with Irish drama from the mid-nineteenth to the twenty-first centuries, with special attention to the socio-cultural and historical contexts in Ireland. (Cross-listed with ENGL 8456).

**Prerequisite(s):** ENGL 1160 required; ENGL 2410 or ENGL 2420 recommended

**ENGL 4460 THE 20TH CENTURY ENGLISH NOVEL (3 credits)**

Readings in the English novel from Joseph Conrad to the present. Formerly ENGL 4660/8666. (Cross-listed with ENGL 8466).

**Prerequisite(s):** ENGL 2410 or ENGL 2420; ENGL 2320 is recommended.

**ENGL 4490 GREAT WORKS OF BRITISH LITERATURE (3 credits)**

This course pursues a trans-historical approach to literary study while interrogating what makes a literary work "great" within the field of British Literature. It allows students to engage with great works of British literature from across the ages - starting with the foundations of British literary history in the medieval period and extending to the present. Attending to formal, thematic, and historical dimensions of a wide array of literary texts, we will increase our appreciation of the many ways texts make meaning while developing a deep understanding of the British literary tradition. Reading literature with a sense of purpose and comparatively across time will allow us not only to appreciate great works but also to enhance the impact they have on us. Furthermore, we will recognize how culture and politics inform what literary works become deemed "great," thereby developing a critical understanding of the process of canon formation. (Cross-listed with ENGL 8496).

**Prerequisite(s):** ENGL 1150 or ENGL 1160, ENGL 2410 recommended

**ENGL 4560 FRANCOPHONE WOMEN WRITERS: EXILES, MADWOMEN, AND WITCHES (3 credits)**

This course is an introduction in English to the rich variety of writing produced by women during the twentieth and twenty-first centuries from across the French-speaking world. We will focus on a selection of contemporary works by French and francophone women writers who lived and/or wrote in Canada, France, Guadeloupe, Haiti, North Africa, Senegal, and Quebec. The texts lend themselves to an exploration of many topical critical issues, including the construction of identity, the (re)presentation of history, the reliability of memory, and the effects of colonialism on different societies. In addition to our discussions of narrative motifs and technique, we will also look at the geopolitical and cultural contexts of these literary works, giving special attention to representations of gender, race, and class. (Cross-listed with FREN 8566, FREN 4560, WGST 4560).

**Prerequisite(s):** Prereq: ENGL 1160 and one additional literature class or permission.

**ENGL 4620 HISTORY OF ENGLISH (3 credits)**

A critical study of both the internal and external histories of English. Includes historical development of English phonology, morphology, graphics, syntax, diction, dialects, and semantics. (Cross-listed with ENGL 8626).

**Prerequisite(s):** Junior or permission

**ENGL 4640 APPLIED LINGUISTICS (3 credits)**

This course is designed to develop knowledge and skills for second language instructors and others interested in second language learning and instruction. Content covers relevant second language acquisition (SLA) theory and second language pedagogy. (Cross-listed with ENGL 8646).

**Prerequisite(s):** ENGL 3610 and Junior standing or with permission from instructor.

**ENGL 4650 STRUCTURE OF ENGLISH (3 credits)**

A study of grammar as it has been conceived through history, including traditional prescriptive and descriptive approaches as well as transformational- generative grammar. (Cross-listed with ENGL 8656).

**Prerequisite(s):** ENGL 3610 / ENGL 8615 or permission.

**ENGL 4670 SOCIOLINGUISTICS (3 credits)**

An exploration of interconnections between language, culture, and communicative meaning, stressing interactional, situational, and social functions of language as they take place and are created within social contexts. (Cross-listed with ENGL 8676).

**Prerequisite(s):** ENGL 3610/ENGL 8615, or permission.

**ENGL 4690 TOPICS IN LINGUISTICS (3 credits)**

This course introduces students to a specialized subject matter in the discipline of Linguistics not covered in existing courses. This course may be repeated for different topics. (Cross-listed with ENGL 8696).

**ENGL 4730 CONTEMPORARY RHETORIC (3 credits)**

A study of contemporary theories and their application with particular attention to invention, form, style, and cultural context. The course will include an overview of ancient rhetoric and address non-Western rhetorics, such as Native-American, Chinese, and Japanese rhetorical theories. Formerly, ENGL 4530/8536. (Cross-listed with ENGL 8736).

**Prerequisite(s):** Any 2000 or above writing course or permission

**ENGL 4750 COMPOSITION THEORY & PEDAGOGY (3 credits)**

This course is an overview of composition theories and pedagogies since 1968 and focuses on how historical movements in education and theoretical frameworks (rhetorical, expressivist, socio-cognitivist, collaborative, social constructionist, critical pedagogy, cultural studies, feminist, technological, and linguistic theories) both enrich and complicate the teaching of composition. (Cross-listed with ENGL 8756).

**Prerequisite(s):** Any 2000 or above writing course or permission

**ENGL 4790 ENGLISH CAREER PREPARATION (1 credit)**

This course will prepare students for an internship or a career, addressing topics such as finding and applying for internships, workplace and industry, resume and cover letters, interviewing techniques, developing a professional portfolio, and statement of goals. Taking this course prior to an internship is highly recommended. (Cross-listed with ENGL 8796).

**Prerequisite(s):** Junior or senior level, one 4000-level English course, or permission of instructor.

**ENGL 4800 ENGLISH INTERNSHIP (1-3 credits)**

Supervised internship in a professional setting with a local employer or nonprofit organization. Hands-on experience. Work hours, activities, and responsibilities must be specified in a written agreement between the employer and the student in consultation with the internship director. Some internships will be paid and some will not. (Cross-listed with ENGL 8806).

**Prerequisite(s):** ENGL 2410 or ENGL 2420, an ENGL 4000-level writing course, Junior/Senior standing, and permission of internship director.

**ENGL 4810 DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS (3 credits)**

This course addresses emerging issues in digital literacies such as the rhetoric of technology, technological competency, technology and information ecologies, critical awareness of technology and human interactions, judicious application of technological knowledge, user-centered design, networking and online communities, ethics and technology, and culture and technology. (Cross-listed with ENGL 8816).

**Prerequisite(s):** ENGL 1160 or permission of the instructor.

**ENGL 4820 AUTOBIOGRAPHY (3 credits)**

In this creative nonfiction writing course, students will craft, workshop, and revise original works of autobiographical nonfiction. Students will read, discuss and critically analyze writing techniques found in diverse autobiographical prose by published authors and student peers. A final project will invite students to research and summarize a book-length autobiography of their own. (Cross-listed with ENGL 8826).

**Prerequisite(s):** ENGL 2110 or ENGL 3150 or ENGL 2410 or ENGL 2420 or Instructor Permission

**ENGL 4830 TECHNICAL COMMUNICATION (3 credits)**

Technical Communication introduces students to the field of technical communication. Students will study the development of print and electronic genres common to industry settings, the design and production of technical documents, the writing processes and work practices of professional technical communicators, and the roles of technical communicators in organizational contexts. (Cross-listed with ENGL 8836).

**Prerequisite(s):** ENGL 1160 or permission of instructor.

**ENGL 4840 TRAVEL WRITING (3 credits)**

Travel Writing is a course in professional writing. Although the course includes critical examinations of texts, the primary focus is on the composition of various kinds of travel essays. (Cross-listed with ENGL 8846).

**Prerequisite(s):** ENGL 2410, ENGL 2420, or ENGL 3150

**ENGL 4850 INFORMATION DESIGN FOR TECHNICAL COMMUNICATORS (3 credits)**

This course introduces students to strategies for integrating visual and textual elements of technical documents. Instruction will focus on design theory and application through individual and collaborative projects. Students will develop the professional judgment necessary for making and implementing stylistic choices appropriate for communicating technical information to a lay audience. (Cross-listed with ENGL 8856).

**Prerequisite(s):** ENGL 1160 or permission of instructor.

**ENGL 4860 THE MODERN FAMILIAR ESSAY (3 credits)**

Students in this course will read as well as write the Modern Familiar Essay, a sub-genre of Creative Nonfiction, with an emphasis on writing the informal essay. Essays will represent a wide scope of perspectives and issues, including gender, social class, education, politics, culture, sexuality, health, race, and ethnicity, and will range from the the sixteenth century "inventor" of the modern essay to twenty-first century practitioners of the form. This course will also cover a wide range of sub-genres and stylistic forms, such as memoir, autobiography, flash, experimental, and more. (Cross-listed with ENGL 8866).

**Prerequisite(s):** ENGL 2410 or ENGL 2110 or ENGL 3150 or instructor permission for Arts, 7-12; Secondary English, 7-12; and/or English as a Second Language, 7-12

**ENGL 4870 TECHNICAL EDITING (3 credits)**

This course introduces students to the roles and responsibilities of technical editors: the editorial decision-making processes for genre, design, style, and production of technical information; the communication with technical experts, writers, and publishers; the collaborative processes of technical editing; and the techniques technical editors use during comprehensive, developmental, copyediting, and proofreading stages. (Cross-listed with ENGL 8876).

**Prerequisite(s):** ENGL 1160 or permission of the instructor

**ENGL 4890 CAPSTONE COURSE IN TECHNICAL COMMUNICATION (3 credits)**

In this capstone course, students will extend foundational skills learned in previous technical communication courses. Students will demonstrate their competency in the technical documentation process in organizational environments, the issues important to the technical communication profession, and the practices of writing and creating complex technical documents for specific purpose and audience. (Cross-listed with ENGL 8896).

**Prerequisite(s):** ENGL 1160 or permission of instructor.

**ENGL 4930 NARRATIVE NONFICTION (3 credits)**

Students will read, discuss, and write critical analyses of narrative nonfiction by published and student writers. They will craft, workshop, and revise original works of narrative nonfiction. (Cross-listed with ENGL 8936).

**Prerequisite(s):** One creative nonfiction course or permission from the instructor

**ENGL 4940 PUBLISHING THE LINDEN REVIEW (3 credits)**

This course will offer students an experiential learning opportunity within the publishing field. Students will work as an editorial team advised by their instructor to publish a biannual, international, online literary journal named The Linden Review. The Linden Review's mission is to publish high-quality creative nonfiction and book reviews that investigate the complexities of the word health. Health will be defined broadly as a deep understanding and appreciation of bodily, emotional, spiritual, social, political, and environmental well-being. (Cross-listed with ENGL 8946, MEDH 4940).

**Prerequisite(s):** Prerequisite: ENGL 1160 or equivalent

**ENGL 4950 BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM (3 credits)**

Course explores the impact of war on combatants, their families and communities as represented in literary fiction, film, historical documentation, first-person accounts, and other texts written in or translated to English. (Cross-listed with ENGL 8956, MEDH 4950).

**Prerequisite(s):** ENGL 1160

**ENGL 4960 TOPICS IN LANGUAGE AND LITERATURE (3 credits)**

This course introduces students to a specialized subject matter in the discipline of English Studies not covered in existing courses. This course may be repeated for different topics. (Cross-listed with ENGL 8966).

**Prerequisite(s):** Will vary depending on what the topic is.

**ENGL 4970 WRITING ABOUT SICKNESS AND HEALTH (3 credits)**

Students will explore many themes of the human experience in healthcare through reading and discussion of selected poems, short stories, excerpts from fiction, and essays and creative nonfiction. To help students generate their own poems, stories, and essays, the class will incorporate the work of community writing programs and projects. (Cross-listed with ENGL 8976).

**Prerequisite(s):** ENGL 1160 or permission of the instructor.

**ENGL 4980 TOPICS: INDEPENDENT STUDY (3 credits)**

Specially planned readings in a well-defined field of literature or language, carried out under the supervision of a member of the English faculty.

Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated for credit once.

**Prerequisite(s):** Permission of the instructor, junior or senior, and no incompletes outstanding.

**ENGL 4990 SENIOR PAPER OR PROJECT (1 credit)**

Attached to an existing 4000-level English course in which a student is currently enrolled and normally added during the first six weeks of the academic semester, the Senior Paper or Project contracts a student to produce a culminating paper or project in an area of the English major. The paper or project produced in conjunction with this course will constitute a student's most dedicated accomplishment at the end of her or his undergraduate career.

**Prerequisite(s):** Permission of the instructor and senior standing. Not open to non-degree graduate students.

## Entrepreneurship (ENTR)

### Entrepreneurship Undergraduate Courses

**ENTR 2550 AFRICAN AMERICAN ECONOMICS AND CONSUMERISM (3 credits)**

This course traces the evolution of African American business and economic development systems in the U.S. and will examine historical economic and political influences which impact African American business communities. Students will be exposed to various aspects of African American business and economics, including Black entrepreneurship and Black owned businesses before, during, and after slavery; an analysis of the role of Black churches in African-American communities; and the impact of modern economic and political systems on African American business communities. (Cross-listed with BLST 2550).

**Distribution:** U.S. Diversity General Education course

**ENTR 2980 SEMINAR IN ENTREPRENEURSHIP (1 credit)**

This seminar exposes students to entrepreneurs and innovators from multiple industries and varied backgrounds. This course will explicitly link entrepreneurship theories with the best practice experiences of successful entrepreneurs in the region. Through purposeful interaction with the region's start-up community, this course will strengthen the networks of entrepreneurship students and equip students with the knowledge and tools to make their business ideas a reality.

**ENTR 3330 ENTREPRENEURIAL FINANCE (3 credits)**

This course focuses on venture capital formation and the financing of entrepreneurial ventures. The course is intended for students interested in entrepreneurship, venture capital markets, investment banking, and other careers related to new venture financing and/or deal structuring. The course applies basic financial theory to the unique environment of incubating and growing new ventures. (Cross-listed with FNBK 3330).

**Prerequisite(s):** ENTR 3710 with a C or better

**ENTR 3710 ENTREPRENEURIAL FOUNDATIONS (3 credits)**

A study of the analytical techniques and managerial tasks associated with developing and executing business plans for small firms and start-ups. These skills, including strategic positioning and competitor analysis, marketing, teaming, project and operations management, and cash flow projection will be taught through a combination of contemporary readings, speakers, and hands-on practice problems.

**Prerequisite(s):** Sophomore standing and 2.0 GPA.

**ENTR 4000 SPECIAL TOPICS IN ENTREPRENEURSHIP (3 credits)**

This special topics course will address specific topics which will vary by semester and is intended primarily for upper division students who are pursuing an entrepreneurship concentration.

**Prerequisite(s):** ENTR 3710 plus 6 hours of Entrepreneurship, all with C+ or better; GPA of 2.5 or better; or permission of instructor.

**ENTR 4150 GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (3 credits)**

An advanced seminar focused on links among geography, gender and work, emphasizing leadership and entrepreneurship. The course considers theory and method in addition to empirical work. The nature of space, of gender, and of work, are examined. Topics include the gendering of work, the geography of entrepreneurship, gender and leadership. (Cross-listed with ENTR 8156, GEOG 4150, GEOG 8156, WGST 4150, WGST 8156)

**Prerequisite(s):** Junior, senior, or graduate standing, or permission of instructor.

**ENTR 4390 MEDIA ENTREPRENEURSHIP (3 credits)**

Media Entrepreneurship explores new and emerging media business models from local, national and global perspectives. Students learn about and work within the start-up economy and entrepreneurial approaches. The course offers professional and critical perspectives. (Cross-listed with JMC 4390, COMM 8396).

**Prerequisite(s):** JMC 3340 and JMC 3350 or permission of instructor

**ENTR 4530 ENTREPRENEURSHIP INTERNSHIP (1-3 credits)**

Students engage in part time employment in a new or small business to gain relevant business experience and to practice the skills and concepts learned in the classroom. Work assignment must encompass duties related to establishing or growing a small business such as market research, customer development, systems design and implementation, funding activities, etc.

**Prerequisite(s):** ENTR 3710 with a C+ or better, a 2.5 GPA, and junior level standing, and permission of instructor. Not open to non-degree graduate students.

**ENTR 4690 EMERGING TECHNOLOGY AND INNOVATION (3 credits)**

This course equips entrepreneurially-minded students with a more complete range and vision of the viability of various startup opportunities (with a specific focus on innovative technologies and innovative business models). Students will become familiarized with the new and emerging technologies and innovations that define modern industries and product categories, as well as the various shifts in the way cutting-edge business gets done, regardless of industry. (Cross-listed with BSAD 8696, ENTR 8696, MGMT 4690, MGMT 8696).

**Prerequisite(s):** Junior standing or higher; 2.75 minimum GPA; or permission of instructor

**ENTR 4710 COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION (3 credits)**

Comparative International Development and Innovation will analyze the rise and fall of civilizations from a historical and theoretical perspective in a comparative manner. The course will address issues concerning political, social, economic, and environmental change in national, and international contexts. Among its major emphases are state institutions, economic growth, entrepreneurship, and the transformation of social structure and culture. (Cross-listed with ENTR 8716, PSCI 4710, PSCI 8716).

**Prerequisite(s):** Junior or senior standing



**ENTR 4720 INNOVATION VENTURES (3 credits)**

This team-based course provides students with the opportunity to practice the basic tools of business discovery and validation. Concepts and techniques in innovation, entrepreneurship, and strategy will be used to aid students in the venture creation process. Important considerations impacting the viability of the venture post formation will also be explored. Practical real-world experimentation is the central component of the course and will help students to conceive, develop, and launch their own innovative ventures. (Cross-listed with BSAD 8726, ACMP 4720, HCC 8256, ENTR 8726, MGMT 4720, MGMT 8726, MKT 4720, MKT 8726).

**Prerequisite(s):** ENTR 3710 and junior standing or above or by instructor permission

**ENTR 4730 NEW VENTURE FORMATION (3 credits)**

This course provides hands-on experience in assessing industries, customers, and competitors for a potential new business venture. Students will create a business plan for a business venture idea that includes distinctive new products and services, a venture strategy, a venture financing plan, and a compelling investor pitch. (Cross-listed with BSAD 8256).

**Prerequisite(s):** ENTR 3710 with a C (2.00) or better; GPA 2.5

**ENTR 4740 TECHNOLOGY AND INNOVATION MANAGEMENT (3 credits)**

This course covers the challenges that surround technology and innovation management. Approaching innovation management as a strategic process, this course will focus in on how the innovation process works and what kinds of organizational environments support this process, as well as how innovation affects the competitive dynamics of markets so that firms can better manage their innovation(s).

**Prerequisite(s):** ENTR 3710. Not open to non-degree graduate students.

**ENTR 4750 SOCIAL ENTREPRENEURSHIP (3 credits)**

Motivated by the desire for social change and community betterment, social entrepreneurs use innovation to solve society's problems in a variety of settings - nonprofits, for-profit businesses, or government agencies. Guest speakers, case discussion, lecture, and student presentations will be used in this course and students will be expected to develop a detailed business plan for a social enterprise.

**Prerequisite(s):** Minimum GPA 2.5

**ENTR 4760 SELLING IN AN ENTREPRENEURIAL CONTEXT (3 credits)**

Successful entrepreneurs are able to identify unmet needs in the marketplace and then design and sell products or services that fulfill those needs. Sales effectiveness is essential for entrepreneurs because they must be able to build sustainable sales pipelines that ensure profitable growth while simultaneously addressing other pressing issues including financing, staffing, and product development. This course will focus on consultative solution-based sales fundamentals that can be applied in an entrepreneurial selling environment. (Cross-listed with MKT 4760, BSAD 8766)

**Prerequisite(s):** GPA 2.5 or better; MKT 3100 with a "C+" or better; MKT 3310 with a "C+" or better; or permission of instructor. Not open to non-degree graduate students.

**ENTR 4770 INTRODUCTORY MAVERICK VENTURE FUND (1 credit)**

This course teaches the basics of venture capital, including, the topics of term sheets, due diligence and learning the perspectives of the entrepreneur and investor. Students in this course have the opportunity to observe more advanced students making investments, ranging from 5,000 dollars to 10,000 dollars plus. This course is the first of three, one-credit courses where students gain more advanced venture funding knowledge and application at each level. (Cross-listed with BSAD 8776).

**Prerequisite(s):** This course requires instructor approval.

**ENTR 4780 INTERMEDIATE MAVERICK VENTURE FUND (1 credit)**

In this course, students source deals, listen to pitches, and select start-ups to be funded. Investments typically range from 5,000 dollars to 10,000 dollars plus. This course is the second in a set of three courses that increase in difficulty with each course. (Cross-listed with BSAD 8786).

**Prerequisite(s):** Students must have taken Maverick Venture Fund - 1: Venture Capital Concepts (ENTR 4770/8770).

**ENTR 4790 ADVANCED MAVERICK VENTURE FUND (1 credit)**

This course applies advanced concepts of venture capital. Students will learn how to monitor and assist start-ups in the scaling process. Students learn how to leverage community partners to amplify investment opportunities. This course is the third in a set of three courses that increase in difficulty with each course. (Cross-listed with BSAD 8796).

**Prerequisite(s):** Students must have taken MAVERICK VENTURE FUND - 2: APPLICATION, SOURCING DEALS & DUE DILIGENCE

## Environmental Engineering (ENVE)

### Environmental Engineering Undergraduate Courses

**ENVE 101 INTRODUCTION TO ENVIRONMENTAL ENGINEERING (3 credits)**

Introduction to engineering design process through hands-on projects supported by instruction of underlying engineering science and fundamentals, model development, and the required tools. Be exposed to environmental engineering to know what it means to be an environmental engineer and an introduction to environmental engineering profession with focus on ethics.

**ENVE 210 FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING (3 credits)**

Introduction to material and energy balances on environmental systems involving physical, chemical, and biological processes. Primary focus on single phase systems.

**Prerequisite(s):** CHEM 1180 with a C or better, and MATH 1950 with a C or better

**ENVE 322 BIOLOGICAL PRINCIPLES OF ENVIRONMENTAL ENGINEERING (2 credits)**

Introduction to the basics of microbes in the environment, including basic microbiological concepts, microbial environment, detection/enumeration/identification of microbes, microbial interactions with environment, microbial remediation of pollutants, waterborne pathogens, and wastewater treatment and disinfection.

**Prerequisite(s):** CIVE 321

**ENVE 401 ENVIRONMENTAL ENGINEERING DESIGN I (3 credits)**

Practical application of the engineering design process in a team project focused on an authentic and comprehensive environmental engineering design project.

**Prerequisite(s):** CIVE 321, ENVE 322, CIVE 352

**ENVE 402 ENVIRONMENTAL ENGINEERING DESIGN II (3 credits)**

Practical application of the engineering design process in a team project focused on an authentic and comprehensive environmental engineering design project.

**Prerequisite(s):** ENVE 401

**ENVE 410 ENVIRONMENTAL FATE AND TRANSPORT (3 credits)**

Covers fate and transport principles, such as interphase chemical equilibrium, the formulation and application of the advection-diffusion equation, and their specific environmental engineering applications.

**Prerequisite(s):** CIVE 310 or CHME 332; ENVE 210 or CHME 202; and CIVE 321

**ENVE 430 SUSTAINABLE DESIGN IN ENVIRONMENTAL ENGINEERING (3 credits)**

Introduction to sustainability concepts and sustainable engineering design processes for environmental engineers such as life cycle assessment, multi-criteria decision analysis, and analysis of renewable energy systems.

**Prerequisite(s):** CIVE 321; Co-requisite STAT 3800



**ENVE 898 SPECIAL PROBLEMS IN ENVIRONMENTAL ENGINEERING (1-6 credits)**

Special research-oriented problems in current topics in environmental engineering.

**Prerequisite(s):** Permission.

**ENVE 899 MASTER'S THESIS (1-10 credits)**

Master's thesis work

**ENVE 990 SEMINAR IN ENVIRONMENTAL ENGINEERING (1 credit)**

Presentation and discussion of current research topics and projects in environmental engineering and closely allied areas.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**ENVE 998 SPECIAL TOPICS IN ENVIRONMENTAL ENGINEERING (1-6 credits)**

Independent library and/or experimental research, analysis, evaluation and presentation of current and advanced topics in environmental engineering and closely related areas.

**Prerequisite(s):** Permission.

## Environmental Studies (ENVN)

### Environmental Studies Undergraduate Courses

**ENVN 2010 ENVIRONMENTAL PROBLEMS AND SOLUTIONS (2 credits)**

An overview of current environmental problems and the efforts to solve those problems. Intended for Environmental Studies majors and other students with an interest in conservation, the human environment, and management of natural resources. This course examines current local, regional, and global environmental issues and explores work being done to improve environmental quality. The purpose of the course is to give students a broad, interdisciplinary overview of environmental topics and to provide introductory, hands-on experience working with tools that are used to solve environmental problems that they will also encounter in advanced coursework. Usually offered every semester.

**Prerequisite(s):** BIOL 1330 or GEOL 1010 or GEOG 1050 (or concurrent enrollment). Not open to non-degree graduate students.

**ENVN 2020 STATISTICS FOR LIFE AND ENVIRONMENTAL SCIENCE (3 credits)**

The course will train life and environmental science students in 1) searching and accessing public data repositories to address questions in the area of life and environmental science, 2) carrying out quality control of data files and preparing data files for statistical analysis, 3) summarizing data with tables and graphs for reports using the principles of descriptive statistics, and 4) applying basic principles of inferential statistics to test simple life and environmental science models. The students will also practice 1) using spreadsheet software (e.g., Excel) for basic data organization, clean-up, and manipulation and 2) carrying out basic descriptive and inferential statistics with R (the standard statistical software used in life and environmental science). In addition to using the frequentist approach (null hypothesis testing) for inferential statistics, the course will also emphasize effect sizes, because statistically significant, yet small effects, are generally of minor importance in biological and environmental systems. (Cross-listed with BIOL 2020).

**Prerequisite(s):** MATH 1120 or MATH 1130 or MATH 1220 or MATH 1300 or MATH 1320 or Permission of Instructor.

**ENVN 3030 MICROBIAL ECOLOGY (4 credits)**

Through an integrated lecture and laboratory course, this course will introduce students to the diversity and ecology of microbes in various environments (soils, water, plants, insects, etc.). Emphasis will be placed on molecular approaches to analyzing microbial diversity and evolution, as well as teacher-directed but student-led investigations. Students will participate in a continuum of course-based research experiences in molecular microbial ecology, from fieldwork to laboratory techniques and evolutionary analysis of DNA sequence data. The course explores ecological principles as they apply to microorganisms while emphasizing the molecular, biochemical, and evolutionary diversity in the microbial world. (Cross-listed with BIOL 8045, BIOL 3030).

**ENVN 3180 ENVIRONMENTAL ETHICS (3 credits)**

This course introduces students to the thinkers and issues that make environmental ethics what it is today. It includes the analysis and evaluation, from ethical viewpoints, of such topics as: intrinsic value of animals, plants and ecosystems; animal rights; climate change; conservation and preservation; environmental law and politics; obligations to future generations; sustainability and new technologies; war, immigration, and the environment; human rights and the environment; nature and the built environment; and environmental activism. (Cross-listed with PHIL 3180).

**Prerequisite(s):** Junior or 3 hours of philosophy.

**ENVN 3310 SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD (3 credits)**

This course presents a broad, interdisciplinary introduction to some of the most pressing environmental and ecological problems in various parts of the Spanish-speaking world, as well as some of the ways in which such problems are being addressed at different levels to promote social and ecological sustainability (locally, nationally, regionally, and globally). The Spanish-speaking world, also known as the Hispanosphere, encompasses the following geographical areas: Spain, Hispanic America, Equatorial Guinea, and portions of the United States. In addition, the course explores some of the ways in which these topics have been represented through a variety of genres, such as documentaries, fiction films, comics, narrative texts, poetry, and essays. Finally, the course also focuses on the continued development of Spanish language skills, such as the acquisition of specialized vocabulary, formal and informal essay writing, presentational speaking skills, advanced reading, and the analysis of film and other media. (Cross-listed with SPAN 3310).

**Prerequisite(s):** SPAN 3030 or SPAN 3010, SPAN 3040 or SPAN 3020, and SPAN 3060.

**ENVN 4090 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES (3 credits)**

A lecture and/or laboratory course pertaining to a specific topic in environmental studies or sustainability not available in the regular curriculum. May be repeated as topics change.

**Prerequisite(s):** Junior or senior standing.

**ENVN 4180 FRESHWATER ECOLOGY (4 credits)**

A study of the physical, chemical and biological relationships that serve to establish and maintain plant and animal communities in freshwater environments. (Cross-listed with BIOL 8186, BIOL 4180).

**Prerequisite(s):** BIOL 1450 and BIOL 1750, junior-senior, or permission of instructor. Must enroll in lab. Not open to non-degree graduate students.

**ENVN 4270 GLOBAL ENVIRONMENTAL POLITICS (3 credits)**

This course introduces students to issues of global environmental politics and policy, including the science behind issues such as climate change, how environmental policy is made at the national and international levels, and what role politics plays in determining environmental resource use. (Cross-listed with PSCI 4270, PSCI 8276)

**Prerequisite(s):** PSCI 2210 or junior standing or permission of instructor.

**ENVN 4310 OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY (3 credits)**

In this course, students will analyze our energy options including the environmental, economic, and ethical connections with a particular emphasis on electrical energy. The course doesn't prescribe a particular energy future but rather emphasizes development of the knowledge and skills to more effectively contribute to the conversation. To understand our future, the course begins with the present energy landscape and its historical underpinnings, then focuses on developing a student's ability to critically assess energy options by examining the associated implications, consequences, intent, origins, and bias. Students' own work, life, and academic experience are used in the course to underscore the individual relevance of these energy choices. The course includes the necessary science, but the greater emphasis is on the associated critical and creative thinking so that ultimately students can make informed, creative, sustainable energy choices. (Cross-listed with ENVN 8316, CACT 8316)

**Prerequisite(s):** Permission of instructor.

**ENVN 4320 ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH (3 credits)**

The course will explore and develop the complex context of the systemic links among ecosystems and human health (and more broadly human well-being) using case studies including climate change, water quality, infectious diseases and agricultural production. Students will develop skills in critical thinking and applied research by studying biological connections between humans and ecosystems and how social, economic and cultural processes and practices mediate these connections. This course supports the Health and the Environment concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with CACT 8326)

**Prerequisite(s):** Junior or Senior standing

**ENVN 4330 INTRODUCTION TO GREEN INFRASTRUCTURE (3 credits)**

This course provides an overview of green infrastructure including issues managed with green infrastructure (storm water quality and quantity, urban habitat value, urban sustainability, etc.); basic design and management parameters for best management practices (BMPs); case study applications of BMPs; treatment train assessment and evaluation; and regulatory and cost considerations. (Cross-listed with ENVN 8336).

**Prerequisite(s):** Junior/Senior standing or instructor permission

**ENVN 4350 GLOBAL CLIMATE CHANGE (3 credits)**

The primary objective of this course is for students to form a scientific, evidence-based, stance on current and future changes to the Earth's climate. To this end, this course will be based on scientific inquiry into the current state of knowledge. Particular emphases are placed on evidence and causes of change, and the associated environmental and social impacts, including: water resources, extreme weather, human health, and others of interest to the class. (Cross-listed with GEOG 8356, GEOG 4350, ENVN 8356).

**Prerequisite(s):** At least 1 of the following: GEOG 1030, GEOG 1050, GEOG 3510, GEOG 4320, or permission of instructor

**ENVN 4390 THE NATURE OF THE PAST: AMERICAN ENVIRONMENTAL HISTORY, PRE-HISTORY TO THE PRESENT (3 credits)**

This course will introduce students to the field of American Environmental History. Students will engage with literature produced by scholars who, broadly speaking, research and write about the many ways in which humans have shaped nature and, conversely, how nature has shaped humans over time. We will focus on the myriad peoples and cultures that have thrived in what is presently the United States and how these peoples have interacted with their physical environments in a multitude of contexts, from the transformation of ecosystems for economic purposes, to the cultural and scientific ideas that have shaped human notions of the natural world, to the ways in which people have mobilized governments to transform the environment. (Cross-listed with HIST 4390, HIST 8196, SUST 4390).

**ENVN 4410 WETLAND ECOLOGY AND MANAGEMENT (3 credits)**

This course will examine the principles and theory of wetland ecology with application towards wetland management and regulation. An interdisciplinary overview of physical, biological and regulatory aspects of wetlands will allow students to synthesize information from their backgrounds in geography, geology and ecology. Definitions, classifications, natural processes and functions of wetland environments will be presented. Labs concentrate on field techniques used to assess specific plant, animal, soil, and hydrological characteristics of wetlands. (Cross-listed with BIOL 4410 and BIOL 8416)

**Prerequisite(s):** BIOL 3340 or instructor permission.

**ENVN 4420 RESTORATION ECOLOGY (3 credits)**

Restoration Ecology examines how people assist with the recovery of ecosystems that have been degraded. The course will examine the theory and application of restoration ecology through lecture, discussion, field trips, and development of a restoration management plan for a degraded ecosystem near Omaha. The course will provide information and resources used by restoration and land management professionals to plan, implement, and manage restorations. (Cross-listed with BIOL 4420, BIOL 8426)

**Prerequisite(s):** Junior or Senior standing.

**ENVN 4600 GIS APPLICATIONS FOR ENVIRONMENTAL SCIENCE (1 credit)**

This course introduces the use of geographic information systems (GIS) and other geospatial tools for work in the fields of environmental science, ecology, and natural resource management. The course will develop a working knowledge of the common software and hardware tools used by ecologists through hands-on projects. (Cross-listed with BIOL 4600, BIOL 8606)

**Prerequisite(s):** BIOL 3340 or permission of instructor.

**ENVN 4610 ENVIRONMENTAL MONITORING AND ASSESSMENT (3 credits)**

An interdisciplinary approach to techniques for the design and implementation of environmental inventory and monitoring schemes used to evaluate natural resources. Students work as teams to synthesize information from their backgrounds in geography, geology and ecology to evaluate the impacts of human actions on environmental quality following the framework for environmental assessments provided by the National Environmental Policy Act. Course is organized to accommodate variable needs of students with different backgrounds and career choices. Usually offered every year. (Cross-listed with BIOL 4610, GEOG 4610, GEOG 8616, GEOL 4610, GEOL 8616)

**Prerequisite(s):** Permission of instructor.

**ENVN 4700 SUSTAINABLE SOLUTIONS CAPSTONE (3 credits)**

This is a capstone experience for students interested in sustainability and related fields. Students work as part of a multidisciplinary team under the guidance of faculty mentors to develop sustainable solutions to challenges faced by local, regional, or global organizations.

**Prerequisite(s):** Instructor permission.

**ENVN 4800 INTERNSHIP IN ENVIRONMENTAL MANAGEMENT AND PLANNING (1-3 credits)**

Internship providing practical experience working with environmental organizations or government agencies for students interested in careers in environmental science and related fields. A proposed internship must be approved by the Environmental Studies Program prior to enrolling. Usually offered Fall, Spring, Summer. (Cross-listed with BIOL 4800)

**Prerequisite(s):** Permission of the Environmental Studies Program.

**ENVN 4820 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)**

An introduction to environmental law and regulations intended for students pursuing careers in environmental sciences or related fields. The course emphasizes the origins, implementation, and enforcement of U.S. state and federal laws and regulations. Major federal environmental laws, covering air and water quality, solid and hazardous waste, pollution prevention and remediation, and natural resources will be discussed. Usually offered Fall semesters. (Cross-listed with ENVN 8826, BIOL 4820, GEOG 4820, GEOG 8826, PA 8826)

**Prerequisite(s):** Junior-senior or permission of the instructor.

**ENVN 4970 ADVANCED BOTANY (4 credits)**

Advanced Botany examines plant structures (cells, tissues, and organs) and their connections with plant functions (growth, reproduction, photosynthesis, respiration, and dispersal). Topics covered include energy metabolism, development and morphogenesis, genetics, ecology, and the latest in plant taxonomy and phylogeny, keeping students on the forefront of cutting-edge botanical research. In lab, students conduct activities such as dissecting plant organs, making microscope slides, and conducting plant-based experiments, using plants from the local area, from native Great Plains collections, and from around the world and grown in the greenhouse. Students compare and contrast both physiological and morphological adaptations to varying environments. (Cross-listed with BIOL 8976, BIOL 4970).

**Prerequisite(s):** BIOL 1750 and junior or senior student status or above or instructor permission.

## Exploratory (EXPL)

### Exploratory Undergraduate Courses

**EXPL 1000 EXPLORATORY STUDIES (3 credits)**

All Exploratory Studies students will take EXPL 1000, a general education course specifically designed for Explorers which: Empowers students to define their passions, talents, and interests to choose a best-fit major/minor; helps students explore different disciplines, Academic Focus Areas, and majors/minors at UNO; draws on happiness and well-being theories to help students better define the meaning of success in college and in life; provides mentorship from faculty, staff, peer mentors, EXPL Ambassadors, and more.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**EXPL 1010 EXPLORATORY STUDIES: COLLEGE EXPLORATION AND SUCCESS SEMINAR (1 credit)**

The aim of this course is to set students up for college success. Students will learn about university resources and college level academic success strategies. This course provides students with guided exploration of majors and career pathways. Students will use various methods to identify and reflect on their strengths and passions to direct their search for academic paths. Students will engage with faculty, peer mentors, staff and peers to foster a sense of community and belonging.

## Finance and Banking (FNBK)

### Finance and Banking Undergraduate Courses

**FNBK 2280 PERSONAL FINANCE (3 credits)**

This course focuses strengthening the development of sound financial habits through knowledge and application of concepts and activities that enhance personal and family finance.

**FNBK 2710 PRINCIPLES OF INSURANCE (3 credits)**

This course is intended to introduce students to the basic concepts of risk and insurance. Special emphasis is placed on the insurance coverage needed by the consumer: life, health, homeowner and auto insurance. (Fall, Spring)

**Prerequisite(s):** Not open to non-degree graduate students.

**FNBK 3000 FINANCIAL REPORTING AND ANALYSIS (3 credits)**

Seeks to develop students' understanding of the origin and derivation of accounting data, and their skills in employing the data for the purpose of financial analysis, reporting and valuation.

**Prerequisite(s):** ACCT 2020 with 'C' (2.0) or better.

**FNBK 3250 PRINCIPLES OF FINANCIAL MANAGEMENT (3 credits)**

As an introduction to financial management, the course will cover a broad area of corporate finance and discuss topics including assessment of financial statement information, time value of money, bond and stock valuation, as well as capital budgeting.

**Prerequisite(s):** ACCT 2010, ECON 2200, ECON 2220, MATH 1320 or MATH 1370 or MATH 1930, BSAD 2130 or 3160, ENGL 1160/ENGL 1164 or concurrent enrollment in ENGL 1160/1164 each with "C" or better and 2.5 GPA.

**FNBK 3300 INTERMEDIATE FINANCIAL MANAGEMENT (3 credits)**

This course is intended to develop an intermediate level of understanding of financial analysis and decision making, as well as an understanding of the context within which these skills are used, through an in-depth exploration of the essential mathematical operations that underpin advanced finance courses. Critical thinking and computer literacy will be enhanced using MS Excel for spreadsheet calculations and model building.

**Prerequisite(s):** FNBK 3250 with a C+ or better and 2.5 overall GPA. Not open to non-degree graduate students.

**FNBK 3330 ENTREPRENEURIAL FINANCE (3 credits)**

This course focuses on venture capital formation and the financing of entrepreneurial ventures. The course is intended for students interested in entrepreneurship, venture capital markets, investment banking, and other careers related to new venture financing and/or deal structuring. The course applies basic financial theory to the unique environment of incubating and growing new ventures. (Cross-listed with ENTR 3330).

**Prerequisite(s):** FNBK 3250 with 'C' (2.0) or better.

**FNBK 3400 INVESTMENT PRINCIPLES AND PRACTICES (3 credits)**

A study of the market for investment securities, an introduction to the field of security analysis, and selection and management of a portfolio of securities. (Fall, Spring)

**Prerequisite(s):** FNBK 3300, GPA of 2.5 or better or approval of instructor.

**FNBK 3500 FINANCIAL MARKETS (3 credits)**

An overview of money and banking, monetary policy, and analysis of the operations of financial markets in a global context, as well as the evolving regulatory framework within which these markets operate.

**Prerequisite(s):** ECON 2200 and ECON 2220 and FNBK 3250 with 'C' or better, or approval of instructor.

**FNBK 3550 PUBLIC FINANCE (3 credits)**

This course explores the objectives and rationale of government activity in a market economy, including positive and normative analysis of public expenditures and taxes. Topics include Social Security, health insurance, education, food stamps, student aid, unemployment insurance, efficiency and incidence of major revenue sources, and tax reform proposals. (Cross-listed with ECON 3550).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better.

**FNBK 3650 COMMERCIAL BANK MANAGEMENT (3 credits)**

This course focuses on the theory and practice of managing commercial banks. Topics covered include but are not limited to: Bank regulations, bank performance analysis, asset liability management, credit analysis and consumer loans. This course emphasizes the link between theory and practice through readings, guest lecturers from industry experts, and a comprehensive bank research project on a local bank of your choice. At the end of the course, students should have a good understanding of basic banking theories as well as banking practices, and current issues and challenges facing the banking industry.

**Prerequisite(s):** FNBK 3300, GPA of 2.5 or better or approval of instructor.

**FNBK 3700 INTERNATIONAL FINANCIAL MANAGEMENT (3 credits)**

This course focuses on the application of basic principles and techniques of international financial management to the decision-making process of the multinational firms. The course covers foreign exchange markets, management of foreign exchange risk, international working capital management, and foreign portfolio and direct investment. Factors bearing on international financing and investment decisions, such as political risk and international taxation issues will be also explored. (Fall, Spring, Summer).

**Prerequisite(s):** FNBK 3250 with 'C+' (2.3) or better, GPA of 2.5 or better or approval of instructor.

**FNBK 4000 SPECIAL TOPICS IN FINANCE AND BANKING (1-5 credits)**

The topics addressed in this finance and banking special topics course will vary but are typically an in-depth exploration of a specific topic in the field of finance and banking. Please contact the finance and banking department chairperson for the specific course offering.

**FNBK 4150 ADVANCED FINANCIAL MANAGEMENT (3 credits)**

This course aims to develop the student's ability to identify, analyze and solve integrative problems in management of business finance, including financial analysis, working capital management, capital budgeting decisions, long term financing, and leasing, through the use of prescribed readings, case studies and computer applications. (Fall, Spring).

**Prerequisite(s):** FNBK 3300, GPA of 2.5 or better, and senior standing. It is highly recommended that a student have an additional 6 hours of finance instruction beyond the introductory course prior to taking this class.

**FNBK 4210 SELLING FINANCIAL SERVICES (3 credits)**

Selling Financial Services concentrates on methods to effectively sell services and products in the financial services industry, including the banking, brokerage and insurance sectors. Targeting, initiating, and acquiring client relationships, expanding business opportunities, and maintaining long-term client relationships are the course's focal points. This integrative course is designed to provide students with a basic understanding of the selling profession and sales culture within the financial services industry. (Cross-listed with BSAD 8216, MKT 4210).

**Prerequisite(s):** MKT 3310 with a C+ or better grade and 2.5 GPA. Not open to non-degree graduate students.

**FNBK 4300 FUNDAMENTALS OF FINANCIAL PLANNING (3 credits)**

The course provides students with practical skills in evaluating personal financial statements, applying time value of money principles, creating education funding strategies, advising on debt management, integrating behavioral finance, and understanding regulatory, ethical, legal, and economic aspects of financial planning. (Cross-listed with BSAD 8836).

**FNBK 4310 SECURITY ANALYSIS & INVESTING (3 credits)**

Study of the US securities and investment markets, to include understanding of the efficient market, fundamental and technical analysis approaches for the valuation of marketable securities, and risk and return within a portfolio. Analysis ranges from considering the economy, industry groups, and individual corporations when selecting securities to investigating various investment products appropriate for individuals. (Cross-listed with BSAD 8516).

**FNBK 4320 RETIREMENT PLANNING & EMPLOYEE BENEFITS (3 credits)**

This course addresses key retirement issues, such as income planning, Social Security, Medicare, long-term care insurance, and retirement plan distributions. It also covers housing, guardianships, powers of attorney, and living trusts. Students will explore employee benefits, focusing on distribution options, rules, taxation, and investment strategies. Additional topics include equity-based and deferred compensation. The course provides a broad understanding of factors influencing retirement decisions for individuals. (Cross-listed with BSAD 8846).

**FNBK 4330 ESTATES AND INCOME TAX (3 credits)**

This course covers estate planning topics, such as estate and gift taxes, trust planning, property ownership, life insurance, annuities, postmortem tax strategies, and charitable giving. It emphasizes tax planning strategies related to investment goals, focusing on discretionary income and net worth. Students will learn to evaluate investment decisions based on current tax implications. (Cross-listed with BSAD 8856).

**FNBK 4340 APPLICATIONS IN PERSONAL FINANCIAL PLANNING (3 credits)**

In this course for the Financial Planning program, students apply their knowledge through case-based learning to demonstrate their proficiency in financial planning, insurance, tax, retirement, and estate planning. The course involves a comprehensive case analysis, integrating key areas of financial planning. (Cross-listed with BSAD 8866).

**Prerequisite(s):** FNBK 4300, FNBK 4310, FNBK 4320, FNBK 4590, & FNBK 4330

**FNBK 4470 BEHAVIORAL FINANCE & INVESTING (3 credits)**

This course focuses on how actual investor behaviors and market behaviors differ from traditional theories of finance. This course will examine psychological biases, identify how such biases influence financial markets and settings, and explore methods that can be utilized to recognize and overcome such behavioral pitfalls. (Cross-listed with BSAD 8476).

**Prerequisite(s):** Junior or senior standing. Not open to non-degree graduate students.

**FNBK 4500 SPECIAL PROBLEMS IN FINANCE AND BANKING (2-3 credits)**

Individual investigation of specific problems in the fields of finance and banking. (Fall, Spring).

**Prerequisite(s):** Senior. Note: permission of department chair required prior to registration.

**FNBK 4510 FINANCE AND BANKING INTERNSHIP (1-3 credits)**

Students will engage in an applied experience in their area of specialization to gain relevant experience and to practice the skills and concepts learned in the classroom. Supplemental reports and/or reading may be required. Note: FNBK4510 may be taken for a maximum of 3 credits.

**Prerequisite(s):** Permission of internship coordinator; 'C+' or better in FNBK 3250; 2.5 cumulative gpa; junior or senior standing

**FNBK 4570 INVESTMENT MANAGEMENT FOR FINANCIAL ANALYSTS (3 credits)**

This course provides critical knowledge needed for students pursuing a career in investment management. The topic areas bridge academic theory, current industry practice, and ethical and professional standards and comprehensively address the areas assessed in the Chartered Financial Analyst examinations. (Cross-listed with BSAD 8576).

**Prerequisite(s):** Senior standing. Not open to non-degree graduate students.

**FNBK 4590 INSURANCE PLANNING (3 credits)**

An analysis of risk management techniques for handling the risk exposures most businesses face, including insurance, self insurance, risk control and risk avoidance, among others. (Cross-listed with BSAD 8596).

**Prerequisite(s):** At least junior standing.



**FNBK 4600 FINANCIAL RISK MANAGEMENT (3 credits)**

The course provides students with an intermediate level analysis of financial derivatives, and the use of these instruments for managing risk in financial institutions. (Cross-listed with BSAD 8606).

**Prerequisite(s):** FNBK 3400 and FNBK 3500 both with a 'C' (2.0) or better, and senior or graduate standing.

**FNBK 4610 PORTFOLIO MANAGEMENT (3 credits)**

This course will focus on modern development in portfolio management including efficient markets, stock selection, and hedging procedures. The main objective of this course is to prepare students for the management of financial resources through the development of skills necessary to make prudent investment decisions.

**Prerequisite(s):** FNBK 3400 with a "C+" (2.33) or above, and a 2.5 GPA.

## Fire Service Management (FSMT)

### Fire Service Management Undergraduate Courses

**FSMT 1600 FUNDAMENTALS OF FIRE SCIENCE (3 credits)**

Fundamentals of Fire Science is an applied science which focuses on basic understanding of the chemical and physical nature of fire. Students will learn about common fire hazards, extinguishing agent properties, as well as fire ignition and growth phenomena.

**Distribution:** Natural/Physical Science General Education course

**FSMT 2200 CODES AND INSPECTIONS (3 credits)**

Fire protection requirements, including zoning laws and primary access routes for flammable and explosive materials will be discussed. Major considerations and rationales employed in the formulation and creation of zoning and building codes are examined and exploration and understanding of local, state and national codes are also introduced. Safety education program development and implementation, fire inspection techniques and fire investigation procedures are additionally covered.

**Prerequisite(s):** EMGT 1000 or concurrent.

**FSMT 2300 FIRE INVESTIGATION (3 credits)**

The origin and cause of fire and explosion incidents will be explored. Fire and arson investigation procedures such as on-site investigations and inspections, documentation, and fact gathering, collection of witness statements and canvassing, and procedures for gathering and storage of critical evidence will be presented. Legal and jurisdictional issues affecting fire investigation will also be discussed.

**Prerequisite(s):** EMGT 1000 or concurrent

**FSMT 2310 FIRE PROTECTION SYSTEMS (3 credits)**

A study of the procedures necessary to evaluate the firefighting requirements and how these needs drive the design and utilization of various types of fire protection equipment, including design of structural protection systems and associated construction materials, fire detection technology and fire suppression systems.

**Prerequisite(s):** EMGT 1000 or concurrent

**FSMT 2410 STRATEGIES AND TACTICS IN FIRE AND EMERGENCY SERVICES (3 credits)**

This course will provide examples of strategic and tactical considerations that members of the emergency services can employ during structure fires to include residential, commercial, high-rise, special hazard structures, and other types of emergencies like hazardous materials incidents, mass casualty emergencies, and technical rescues.

**Prerequisite(s):** EMGT 1000

**FSMT 2510 BUILDING CONSTRUCTION FOR THE FIRE SERVICE (3 credits)**

The visible and hidden dangers inherently involved with fighting structural fires are examined in this course. Characteristics of construction materials, construction types, fire protection systems, smoke development, fire containment, high rise construction and many other topics relevant to firefighter life safety as related to building construction issues will be studied and evaluated.

**Prerequisite(s):** EMGT 1000 or concurrent.

**FSMT 3020 FIRE DYNAMICS (3 credits)**

This course examines the underlying principles involved in structural fire protection systems, building furnishings, and fire protection systems including water-based fire suppression systems, fire alarm and detection systems, special hazard suppression systems, and smoke management systems.

**Prerequisite(s):** Students must have completed FSMT 1600.

**FSMT 3140 FIRE RELATED HUMAN BEHAVIOR (3 credits)**

The goal of Fire Related Human Behavior is to provide students with knowledge about how humans respond to fire and how that knowledge has been integrated into life safety systems design and development.

**Prerequisite(s):** FSMT 2200

**FSMT 3350 FIRE PREVENTION, ORGANIZATION, AND MANAGEMENT (3 credits)**

This course examines the factors that shape fire risk and the tools for fire prevention, including risk reduction education, codes and standards, inspection and plans review, fire investigation, research, master planning, various types of influences, and strategies.

**Prerequisite(s):** FSMT 2200

**FSMT 3680 ANALYTICAL APPROACHES TO PUBLIC FIRE PROTECTION (3 credits)**

This course examines rational decision making tools and techniques that can be used in Fire and Emergency Services agencies, including data collection, statistics, probability, decision analysis, utility modeling, resource allocation, and cost-benefit analysis.

**Prerequisite(s):** FSMT 2200.

**FSMT 4300 ADVANCED PRINCIPLES OF FIRE AND EMERGENCY SERVICES SAFETY AND SURVIVAL (3 credits)**

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change within the emergency services industry relating to safety, incorporating leadership, supervision, accountability, and personal responsibility. Instruction utilizes the lessons learned from case studies and other investigations that support cultural change throughout emergency services administration.

**Prerequisite(s):** FSMT 2410.

**FSMT 4450 FIRE AND EMERGENCY SERVICES ADMINISTRATION (3 credits)**

This course provides students with the knowledge to understand how to help the fire and emergency services administrator perform as an effective risk manager by recognizing legal and political issues affecting public safety, finding and applying appropriate legal rules and/or political constructs, and articulating supportable conclusions and recommendations.

**Prerequisite(s):** FSMT 2410.



**FSMT 4800 SPECIAL READINGS IN FIRE SERVICE MANAGEMENT (3 credits)**

This course is intended for upper-level Fire Service Management degree students who are pursuing specialized areas of knowledge in Fire Services. The course is conducted under an independent study format, and subject matter will vary based on the interests of the student and learning outcome objectives established by the instructor. Faculty approval is required prior to registration.

**Prerequisite(s):** Prerequisites will be established by the coordinating instructor to meet the foundational knowledge requirements for the area being studied. Not open to non-degree graduate students. EMGT students will need faculty approval.

**FSMT 4860 APPLICATIONS OF FIRE RESEARCH (3 credits)**

This course examines the basic principles of research and methodology for analyzing current fire-related research. The student will be able to understand the rationale that fire research organizations use for conducting fire-related research and evaluation.

**Prerequisite(s):** FSMT 2410.

**FSMT 4900 SPECIAL TOPICS IN FIRE SERVICE MANAGEMENT (3 credits)**

This course is meant to provide upper-level FSMT students with an in-depth look at current and future issues affecting the Fire Services industry and industry professionals. Possible topics include fire case studies, comparative international studies, issues in federalism, fire education, and fiscal administration. Subject matter will vary by student interest and by faculty preference. Students may repeat the course for additional academic credit as long as the course topic is not duplicated.

**Prerequisite(s):** Prerequisites will be established by the coordinating instructor to meet the foundational knowledge requirements for the area being studied. Not open to non-degree graduate students. EMGT students will need faculty approval.

## French (FREN)

### French Undergraduate Courses

**FREN 1010 LINGUISTIC DIVERSITY IN US MEDIA (3 credits)**

Delivered in English, this course introduces students to diversity in the US using language in context as points of departure. In this course, we analyze the intersection between language and ideological constructions (e.g., the objectification of Latino women, discrimination and stereotypes toward Asian peoples) and examine nodes of social meaning through visual and audio representations of language, as consumed in music, tv series, art (e.g., street art, installations) and social media. Departing from a US-centric and an assimilative approach, the course provides a historical and geographic lens through which these languages exist in the United States. (Cross-listed with WLL 1000, GERM 1010, JAPN 1020, SPAN 1010).

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**FREN 1110 ELEMENTARY FRENCH I (5 credits)**

Elementary French I emphasizes the mastery of all four language skills: speaking, listening, reading, and writing, as well as introduces cultural issues from the francophone world.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**FREN 1120 ELEMENTARY FRENCH II (5 credits)**

French 1120 is the second course in the 16-hour Arts and Sciences Foreign Language requirement. It is communicative in approach and emphasizes the mastery of all language skills including listening, writing, speaking, and reading.

**Prerequisite(s):** FREN 1110 with a grade of C- or better or placement by diagnostic examination. Department permission is needed for transfer credit.

**FREN 2110 INTERMEDIATE FRENCH I (3 credits)**

Grammar review, continued oral practice, and introduction to literary readings.

**Prerequisite(s):** FREN 1120 or placement by Department of Foreign Languages diagnostic examination. Department permission is needed for transfer credit.

**FREN 2120 INTERMEDIATE FRENCH II (3 credits)**

Grammar review, continued oral practice, and introduction to literary readings.

**Prerequisite(s):** FREN 2110 or placement by Department of Foreign Languages diagnostic examination. Department permission is needed for transfer credit.

**FREN 3020 SPECIAL TOPICS IN FRENCH (3 credits)**

Topics for this course will include French grammar review, conversation practice, composition, and structure. This course is a bridge course designed for students who have completed FREN 2120, FREN 3030, or FREN 3040, to prepare them for 3000/4000-level content courses in French.

**Prerequisite(s):** FREN 2120 or equivalent. Not open to non-degree graduate students.

**FREN 3030 FRENCH CONVERSATION (3 credits)**

Practice in a variety of conversational situations and levels.

**Prerequisite(s):** FREN 2120 or placement by Department of Foreign Languages diagnostic examination.

**FREN 3040 FRENCH GRAMMAR AND COMPOSITION (3 credits)**

Review of grammatical principles, practice in written composition.

**Prerequisite(s):** FREN 2120 or placement by Department of Foreign Languages diagnostic examination.

**FREN 3050 INTRODUCTION TO TRANSLATION (3 credits)**

Introduction to the theory and various techniques of translation from French into English. Students will review specific differences between French and English grammar and lexicon. Students will first practice translating sentences, moving to paragraphs to end on translating various genres of literary works. Throughout the course, students will translate a great variety of texts such as news articles, administrative forms, official records, business documents, brochures, operating instructions, and how to translate subtitles.

**Prerequisite(s):** FREN 3040 or permission

**FREN 3060 READINGS IN FRENCH (3 credits)**

This course aims to increase students' fluency in reading and to develop comprehension skills that will help them in advanced language studies. The course will also enrich students' vocabulary through the use of a variety of primary sources; many genres will be sampled.

**Prerequisite(s):** FREN 2120. Not open to non-degree graduate students.

**FREN 3160 INTRODUCTION TO FRENCH LITERATURE (3 credits)**

Readings in this survey course will include a selection of French authors from the medieval period to the present. This selection will vary depending on the instructor. The main objective of this course is the development of critical reading skills and an understanding of major authors, movements, and themes in French literature. Students will read selections from numerous authors in a variety of genres, including short stories, theater, poetry, and the novel. The course also focuses on continuing to develop French language skills, in particular through reading for comprehension and interpretation of metaphorical meaning. Discussion will help to hone speaking skills.

**Prerequisite(s):** FREN 3060 or instructor permission.

**FREN 3370 FRENCH CIVILIZATION (3 credits)**

A historical view of France through its political, artistic, musical, literary, architectural and philosophical development from prehistory to the present.

**Prerequisite(s):** FREN 2120 or permission

**FREN 3580 BUSINESS FRENCH (3 credits)**

An introduction to the French business world. Students will acquire the necessary vocabulary, skills and cultural strategies to perform adequately in a French business environment so they can understand the cultural differences between the American and French business worlds.

**Prerequisite(s):** FREN 2120 or equivalent

**FREN 4030 ADVANCED FRENCH CONVERSATION (3 credits)**

This course focuses on the development of oral skills in French through the use of complex and sophisticated conversational structures and nuanced lexicon. Students will be involved in expressing or presenting their ideas and opinions, interpersonal speaking activities, and a variety of activities including reading short literary and cultural texts and screening films. (Cross-listed with FREN 8036).

**Prerequisite(s):** FREN 3030 or departmental permission. Not open to non-degree graduate students.

**FREN 4040 ADVANCED FRENCH COMPOSITION AND STYLISTICS (3 credits)**

In this capstone course, required for the completion of the major, learners will explore and practice advanced grammatical structures, write compositions in a variety of genres, and familiarize themselves with advanced stylistics.

**Prerequisite(s):** French majors with Junior or Senior standing. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**FREN 4050 SEMINAR IN THE CULTURE AND CIVILIZATION OF QUEBEC (3 credits)**

An introduction to the many facets of Quebec Culture & Civilization, through readings on Quebec's history and contemporary culture and also through films and other media related to Quebec. (Cross-listed with FREN 8056).

**Prerequisite(s):** FREN 2120 or permission, and ENGL 1160

**FREN 4070 FRANCOPHONE WEST AFRICA CULTURES (3 credits)**

This course is intended as an introduction and exploration to the history, literary traditions and cinema of Francophone West Africa from 1945 to today. It seeks to familiarize students with the practice of reading literary texts, discussing seminal films and articulating critically informed reaction in writing. The course will focus on a selection of canonical authors and seminal films from Burkina Faso, Guinea, Ivory Coast, Mali, Mauritania and Senegal. The texts and films will provide a point of entry to the study of history, society, and culture. Historical, socio-political and cultural issues covered in the course will include: Ancient rites and oral literature, French colonization and post-colonialism, women and gender issues, childhood, immigration, the "Afropean" literature and West African Francophone countries contemporary challenges (politics and economies) with presentations on Benin, Niger and Togo today. (Cross-listed with FREN 8076).

**Prerequisite(s):** FREN 2120

**FREN 4150 CONTEMPORARY FRENCH NOVEL (3 credits)**

Selected contemporary French novels are analyzed and discussed. The main objective of this course is the development of critical reading and analytical skills that will allow students to reflect more productively upon the major social and aesthetic themes manifest in the texts under consideration. In addition, students will examine the sociopolitical and cultural contexts of these literary works. (Cross-listed with FREN 8156).

**Prerequisite(s):** FREN 3060 or permission. Not open to non-degree graduate students.

**FREN 4170 CONTEMPORARY FRENCH THEATER (3 credits)**

Selected contemporary French plays are analyzed and discussed. The main objective of this course is the development of critical reading and analytical skills that will allow students to reflect more productively upon the major social and aesthetic themes manifest in the texts under consideration. (Cross-listed with FREN 8176).

**Prerequisite(s):** FREN 3060 or permission of instructor. Not open to non-degree graduate students.

**FREN 4220 THE STRUCTURE OF FRENCH (3 credits)**

A survey of the linguistic structure of modern French, including phonology, morphology, and syntax. (Cross-listed with FREN 8226).

**Prerequisite(s):** FREN 3040 or departmental permission. Not open to non-degree graduate students.

**FREN 4560 FRANCOPHONE WOMEN WRITERS: EXILES, MADWOMEN, AND WITCHES (3 credits)**

This course is an introduction in English to the rich variety of writing produced by women during the twentieth and twenty-first centuries from across the French-speaking world. We will focus on a selection of contemporary works by French and francophone women writers who lived and/or wrote in Canada, France, Guadeloupe, Haiti, North Africa, Senegal, and Quebec. The texts lend themselves to an exploration of many topical critical issues, including the construction of identity, the (re)presentation of history, the reliability of memory, and the effects of colonialism on different societies. In addition to our discussions of narrative motifs and technique, we will also look at the geopolitical and cultural contexts of these literary works, giving special attention to representations of gender, race, and class. (Cross-listed with FREN 8566, ENGL 4560, WGST 4560).

**Prerequisite(s):** Prereq: ENGL 1160 and one additional course in literature at the 2000 level or higher or permission.

**FREN 4860 MODERN FRENCH WOMEN AUTHORS (3 credits)**

Selected contemporary French literary texts written by women are analyzed and discussed. This may include novels, short stories, poetry, and graphic novels. The primary objective of this course is the development of critical reading and analytical skills that will allow students to reflect more productively upon the major social and aesthetic themes manifest in the works under consideration. In addition, students will examine the sociopolitical and cultural contexts of these works. (Cross-listed with FREN 8866).

**Prerequisite(s):** FREN 3060 or permission. Not open to non-degree graduate students.

**FREN 4900 INDEPENDENT STUDY (1-3 credits)**

Specially planned assignments in a well-defined field of French Studies, carried out under the supervision of a member of the Foreign Languages and Literature faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated the capability of working independently. In general, these independent studies should not be taken as substitutes for scheduled classes of the same nature. May be repeated for credit once. (Cross-listed with FREN 8906).

**Prerequisite(s):** Junior or Senior standing, no incompletes outstanding, and departmental permission. Not open to non-degree graduate students.

**FREN 4950 PRO-SEMINAR: LITERATURE AND/OR FILM (3 credits)**

This course is dedicated to the study of a narrow field of the literature and/or cinema of the Francophone world. (Cross-listed with FREN 8956).

**Prerequisite(s):** FREN 3030, FREN 3040, and FREN 3060

**FREN 4960 PRO-SEMINAR: CULTURE AND SOCIETY (3 credits)**

This course will address narrow field of study of the civilization, history, film, contemporary culture, art, politics, and or cultural studies of the Francophone world. (Cross-listed with FREN 8966).

**Prerequisite(s):** FREN 2120; FREN 3030, FREN 3040, and FREN 3060

**FREN 4970 PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (3 credits)**

This course will address a narrow field of study of linguistics, translation/interpretation or the professional language of the Francophone world. (Cross-listed with FREN 8976).

**Prerequisite(s):** FREN 3030, FREN 3040, and FREN 3060

# Geography (GEOG)

## Geography Undergraduate Courses

### **GEOG 1000 WORLD REGIONAL GEOGRAPHY (3 credits)**

An introductory course designed to study the world and its macro-regions using a combination of physical and human geography. (Offered Fall, Spring)

**Distribution:** Social Science General Education course and Global Diversity General Education course

### **GEOG 1020 INTRODUCTION TO HUMAN GEOGRAPHY (3 credits)**

An introductory course which studies the geography of human activity through a topic by topic coverage of cultural traits and complexes that characterize different societies in the world. Major cultural topics of focus are the geography of population, agricultural systems, settlement, language, religion, political patterns, and man's ways of occupying urban and industrial space, among others.

**Distribution:** Social Science General Education course and Global Diversity General Education course

### **GEOG 1030 OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (4 credits)**

This course is designed to acquaint the student with those processes active in shaping the surface of the earth and their relationship to one another. Includes the study of the atmosphere, river systems and hydrology, glaciers, climate, plate tectonics and landforms. Includes weekly laboratory sessions. (Offered Fall, Spring)

**Distribution:** Natural/Physical Sci General Education lecture&lab

### **GEOG 1050 HUMAN-ENVIRONMENT GEOGRAPHY (4 credits)**

Learn about how sustainability and quality of life depend on human interactions with environmental phenomena such as Climate, Drought, Energy, Water, and Biodiversity. These interactions influence patterns of Urbanization, Technology, Consumption, and Agriculture that can improve or degrade quality of life and sustainability. Lecture emphasizes concepts for understanding and explaining human-environment interaction. Labs focus on fundamentals of physical earth science and how these offer possibilities for sustainable development.

**Distribution:** Natural/Physical Sci General Education lecture&lab

### **GEOG 1090 INTRODUCTION TO GEOSPATIAL SCIENCES (4 credits)**

An introductory lecture/lab that has students learn and apply the principles of geospatial science within the frameworks of Geographic Information Science (GISc), Remote Sensing, Aerial Photography, Photogrammetry, Global Positioning Systems and Cartography/Visualization. The course focuses on the underlying scientific basis that is shared across all of these frameworks. Students will produce both maps and spatial analysis by the end of the course using all of the above frameworks.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Natural/Physical Sci General Education lecture&lab

### **GEOG 2620 AERIAL PHOTOGRAPHIC INTERPRETATION (3 credits)**

A practical application of various types of air photographs to the interpretation and analysis of both physical and cultural landscapes. Provides a fundamental tool for those interested in geography, geology, ecology and the environment. Recommended: Three hours in geography or geology.

### **GEOG 3000 TRAVEL STUDY IN GEOGRAPHY (3 credits)**

The course examines the development of travel as a human endeavor and the process of planning a trip to a foreign country. A major objective of the course is the use and evaluation of Internet travel resources. This is accomplished by searching for relevant sources and assembling this material for presentation to others through the Internet.

**Prerequisite(s):** An introductory course in geography is highly recommended along with a basic knowledge of online tools available through the Internet.

### **GEOG 3020 HEALTH & MEDICAL GEOGRAPHY (3 credits)**

What are the relationships between place and health? Why are there health disparities between populations in different parts of the country, and the world? The field of health and medical geography offers methods and perspectives to help us understand these timely and pressing questions. In this class, we will examine the links between societies, geographies, and health and disease, and what the implications are for our interconnected world.

**Prerequisite(s):** GEOG 1000 or GEOG 1020, junior standing, or permission of the instructor.

### **GEOG 3030 GEOGRAPHY OF AFRICA (3 credits)**

This course is about the human geography of Africa. It offers an overview of the geography, economics, politics, history, oral and written literature, art, anthropology and sociology of the African continent, with particular focus on sub-Saharan Africa. The course attempts to dispel myths and stereotypes about the African continent and facilitates an understanding of the dynamics that shaped and continue to shape African systems and people. Students taking Geography of Africa will engage in a comprehensive and systematic survey of the environments, natural resources, populations, their cultures, and histories of the geographic regions of Africa and their development. (Cross-listed with BLST 3030).

**Prerequisite(s):** Junior or instructor permission

### **GEOG 3050 GEOGRAPHY IN FILM (3 credits)**

Our views of the world are largely shaped by images that we see through popular media. This course examines contemporary films from around the world and how they depict places, the environment, and the lives of people. Critical and constructive examination of film will enable students to understand how images produce powerful ideological messages and how they shape the representation of entire cultures and people.

**Prerequisite(s):** Junior standing. Introductory courses in regional, human, physical geography are highly recommended.

### **GEOG 3070 GEOGRAPHY OF LATIN AMERICA (3 credits)**

This course surveys the physical and human environments of Latin America. Emphasis is placed upon cultural factors in the use of land and Latin American development. (Cross-listed with LLS 3070).

**Prerequisite(s):** Junior

### **GEOG 3080 EAST & SOUTHEAST ASIA (3 credits)**

An introduction to the physical and human landscape of East, and Southeast Asia, encompassing countries from Japan to Myanmar. Emphasis is placed upon the sequence of occupancy of the land, agrarian traditional economies and contemporary development. Dominated by China, the region represents a major area for economic development.

**Prerequisite(s):** Junior

### **GEOG 3130 ECONOMIC GEOGRAPHY (3 credits)**

An introduction to the basic concepts and approaches in contemporary economic geography, stressing the importance of the spatial perspective for an understanding of how economic processes work at global, national, regional, and local scales. (Offered Fall) (Cross-listed with ECON 3130)

### **GEOG 3230 GEOGRAPHY OF EUROPE (3 credits)**

This course is a comprehensive examination of contemporary Europe from a geographical perspective. The course covers physical, cultural, political, urban, population and economic geography of Europe as well as the recent political and economic transformations in both Western and Eastern Europe.

**Prerequisite(s):** GEOG 1000, GEOG 1020, GEOG 1030 or GEOG 1050, and junior.

**GEOG 3240 GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (3 credits)**

A comprehensive examination of Russia and the former Soviet republics from a geographical perspective. The course is organized topically to cover physical, historical, political, urban, population, economic and environmental geography. Special attention is given to geographical and environmental effects of the collapse of the former Soviet Union and the post-Communist transformation.

**Prerequisite(s):** GEOG 1000 or GEOG 1020 or GEOG 3130 and junior, or permission of instructor

**GEOG 3330 UNITED STATES & CANADA (3 credits)**

GEOG 3330: UNITED STATES & CANADA involves the analysis of the natural environment, historical development, economic systems, cultural patterns, and political structures of the Canada geographic region. The course provides a regional geographic perspective on these two countries by examining the expression of culture on the landscape. The course is designed for students wishing to gain regional geographical knowledge, while expanding their understanding of the interconnections among people and place within the United States and Canada.

**Prerequisite(s):** Junior

**GEOG 3440 NEBRASKA NATURAL RESOURCES MANAGEMENT (3 credits)**

Method and actual application of managing natural resources in Nebraska, with emphasis on individual stewardship. The course will focus on the most current political, physical and economic developments in resources management.

**Prerequisite(s):** Junior standing or permission of the instructor.

**GEOG 3510 METEOROLOGY (3 credits)**

A course designed to acquaint the student with the atmospheric environment. The course deals with atmospheric processes, their relationship and variation in both time and space, and their effect on the overall environment of the earth.

**Distribution:** Natural/Physical Sci General Education lecture

**GEOG 3514 INTRODUCTION TO METEOROLOGY LABORATORY (1 credit)**

This lab is designed to give students practice with atmospheric processes using scientific principles techniques, procedures and data associated with meteorology. Offered on-line only.

**Prerequisite(s):** Concurrent or previous enrollment in GEOG 3510

**Distribution:** Natural/Physical Sci General Education lab course

**GEOG 3530 CARTOGRAPHY AND DATA VISUALIZATION (4 credits)**

An introduction to the concepts and techniques of map construction and visual data communication. Topics include map scale, map projections, thematic cartography, history of cartography, computer mapping, and global positioning systems. Particular attention is given to designing both paper and Internet distributed maps. This course is offered in both the Fall and Spring semesters. (Cross-listed with GEOG 8535).

**Prerequisite(s):** GEOG 1000 or GEOG 1020 and GEOG 1030 or GEOG 1050, a statistics course, and a programming course.

**GEOG 3540 CARTOGRAPHY & GIS LAB (2 credits)**

An introduction to the methods and techniques of map construction using both graphic design and geographic information system software. Topics include map design for both general reference and thematic maps. Particular attention is given to the processing, compilation, data classification, and symbolization of various types of spatial data. This course is the lab component of GEOG 3530.

**Prerequisite(s):** Concurrent registration in GEOG 3530.

**GEOG 4010 CONSERVATION OF NATURAL RESOURCES (3 credits)**

This course provides a diverse overview of the principles and contemporary issues related to ecology and management of wildlife, fisheries, forests, soil, rangeland, minerals, and water. It includes the philosophical, economic and social aspects of resource management. Current local, regional, and global issues are examined. (Cross-listed with GEOG 8016).

**Prerequisite(s):** Three hours of geography.

**GEOG 4020 SPATIAL ANALYSIS IN GEOGRAPHY (3 credits)**

An introduction to spatial analysis with a focus on spatial statistics. Emphasis will be placed on the nature of geographic data, spatial data handling, modeling logic, sampling theory, and design. Both descriptive and spatial statistics methods are covered. Students will receive hands-on experience working with statistical data sets, software, and scientific visualization of research results. (Cross-listed with GEOG 8026).

**Prerequisite(s):** STAT 1530 or equivalent

**GEOG 4030 COMPUTER MAPPING AND VISUALIZATION (3 credits)**

Computer techniques in the mapping and visualization of spatial data. Various forms of spatial data manipulation and computer graphic output techniques are examined. Particular attention is given to the creation of maps for the internet and the incorporation of interaction and animation in their display. (Cross-listed with GEOG 8036).

**Prerequisite(s):** GEOG 1090 or permission of instructor. Background in programming, particularly JavaScript, highly recommended.

**GEOG 4040 GEOARCHAEOLOGY (3 credits)**

An introduction to geoarchaeology: the application of methods and techniques of geography, geology and other earth sciences to solve archaeological problems and reconstruct past environments. (Cross-listed with GEOG 8046, GEOL 4040).

**Prerequisite(s):** Major in geology or geography; or major in anthropology, philosophy or religion with GEOG 1030, GEOG 1060 or GEOG 1070; or GEOL 1170 or GEOL 1010; or permission

**GEOG 4050 GEOGRAPHIC INFORMATION SYSTEMS I (4 credits)**

An introduction to the concepts and principles of geographic information systems (GIS). Emphasis will be placed on geographic data inputs, manipulation, analysis, and output functions. Exercises introduce students to GIS software and applications. Usually offered Fall, Spring, Summer. (Cross-listed with GEOG 8056).

**Prerequisite(s):** GEOG 3530 or 6 credit hours of GEOG course.

**GEOG 4100 BIOGEOGRAPHY (3 credits)**

This course is intended as an introduction to biogeography, the study of the distribution and evolution of organisms across space and through time. Usually offered every year. (Cross-listed with BIOL 4100, GEOL 4100, BIOL 8106, GEOG 8106, GEOL 8106).

**Prerequisite(s):** BIOL 1450 and BIOL 1750 or GEOL 3100 or BIOL 3100, junior-senior.

**GEOG 4120 URBAN GEOGRAPHY (3 credits)**

This course is designed to serve as an introduction to the complex and dynamic urban system, including the physical, economic, political, cultural, social, and environmental forces that shape the form and function of cities, as well as how individuals and groups experience urban life. We make ample use of geographic information systems (GIS) to analyze cities and better understand crucial urban concepts such as urban growth and development, patterns of urban form, segregation and neighborhood change, economic specialization and agglomeration, urban sprawl, and environmental justice. (Offered Fall) (Cross-listed with GEOG 8126).

**GEOG 4130 POLITICAL GEOGRAPHY (3 credits)**

An introduction to the basic concepts and approaches in contemporary political geography at the global, national and local scales. Core topics to be examined include geopolitics, imperialism, war and peace, global ecopolitics, states, nationalism and electoral geography. (Offered Fall) (Cross-listed with GEOG 8136).

**Prerequisite(s):** An introductory level human geography course: GEOG 1020 or GEOG 1000, Junior



**GEOG 4150 GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (3 credits)**

An advanced seminar focused on links among geography, gender and work, emphasizing leadership and entrepreneurship. The course considers theory and method in addition to empirical work. The nature of space, of gender, and of work, are examined. Topics include the gendering of work, the geography of entrepreneurship, gender and leadership. (Cross-listed with WGST 4150, ENTR 4150, ENTR 8156, GEOG 8156 and WGST 8156).

**Prerequisite(s):** Junior, senior, or graduate standing, or permission of instructor.

**GEOG 4160 URBAN SUSTAINABILITY (3 credits)**

Using sustainability as a conceptual framework, students in this course will investigate a variety of social, economic, and environmental challenges facing cities of the 21st century. Topics and issues explored include urban growth and expansion, livability, equity & gentrification, energy use & production, urban farming, poverty, automobility & transportation, water security, urban pollution, and the role of cities in climate change. (Cross-listed with GEOG 8166)

**Prerequisite(s):** Junior

**GEOG 4170 ADVANCED CULTURAL GEOGRAPHY (3 credits)**

This course examines current theoretical debate and research practice in a select topic in Cultural Geography. Emphasis will be on readings and discussion with students engaging in original research. Specific thematic focus will vary from year to year. This course may be taken multiple times as long as topics differ. (Cross-listed with GEOG 8176).

**Prerequisite(s):** GEOG 1000 or GEOG 1020, junior standing, or permission of the instructor.

**GEOG 4200 WATER QUALITY (3 credits)**

This class will apply chemical principles to the aquatic environment to understand how and why water quality varies. Integrated lectures and labs will focus on completing a class-defined, locally-explorable water quality project. Students will also gain basic water sampling and analysis skills. (Cross-listed with GEOG 8206, GEOL 4200).

**Prerequisite(s):** One of the following: GEOL 2750, GEOL 4540, CHEM 1140, CHEM 1180, or instructor permission.

**GEOG 4210 GEOGRAPHIES OF SEXUALITIES (3 credits)**

How are geography and sexuality related? What have cities got to do with sexual identities? Can rural spaces foster diverse sexual communities? These and related questions are the focus of this upper-level undergraduate and graduate-level course. Students read scholarly work by and about LGBTQ+ (Lesbian, Gay, Bisexual, Transgender, Queer, and +), and cisgender people, and their lived experiences creating and inhabiting different geographies. Students gain an appreciation for the social construction of diverse sexualized spaces and considers questions about equity and policy through case studies in a variety of countries. Each student also researches a course-relevant topic they choose. (Cross-listed with GEOG 8216, WGST 4210, WGST 8216).

**Prerequisite(s):** GEOG 1000, GEOG 1020, WGST 2010, or WGST 2020, or junior standing, or permission of the instructor.

**GEOG 4230 GREAT PLAINS & NEBRASKA (3 credits)**

This course is a comprehensive examination of the Great Plains region from a geographical perspective. It considers both the physical and human geography of the Plains, with particular attention to our home, Nebraska. Topics to be covered include: the Plains' unique ecosystems, its early human inhabitants, its later settlers, its evolving land-use patterns, and current issues. (Cross-listed with GEOG 8236).

**GEOG 4260 PROCESS GEOMORPHOLOGY (4 credits)**

A lecture and laboratory course focused on understanding Earth surface processes and the evolution of landforms across spatial and temporal scales. The course emphasizes applying unifying concepts in geomorphology, quantitative methodology and modern process-oriented geomorphology to interpret landscape evolution. (Cross-listed with GEOG 8266, GEOL 4260).

**Prerequisite(s):** One of the following: GEOL 1010, GEOL 1170, GEOG 1030, GEOG 1050 or instructor permission.

**GEOG 4320 CLIMATOLOGY (3 credits)**

A study of climatic processes and their effect on shaping the physical landscape. Emphasis on physical and applied aspects of the field. (Cross-listed with GEOG 8326).

**Prerequisite(s):** GEOG 1030, GEOG 1050, GEOG 3510, or permission of instructor.

**GEOG 4330 SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (4 credits)**

This course is designed to familiarize students with basic soil chemical, physical and biological properties, soil morphological characteristics, soil classification and soil forming processes. The course focuses on relationships between soils and environmental factors and how such factors alter soil forming processes. The lab will focus on developing basic field skills, including soil morphological descriptions and soil mapping, as well as common laboratory methods used to analyze soils. (Cross-listed with GEOL 4330, GEOG 8336).

**Prerequisite(s):** One of the following: GEOG 1030, GEOG 1050, GEOL 1010, GEOL 1170 or instructor permission.

**GEOG 4340 WATER RESOURCES (3 credits)**

This course explores the applied principles of hydrology, water systems modeling, river basin development, and water management issues and practices in the United States and other parts of the world. Two local Saturday field trips will be required. (Cross-listed with GEOG 8346).

**Prerequisite(s):** GEOG 1060 and Junior standing

**GEOG 4350 GLOBAL CLIMATE CHANGE (3 credits)**

The primary objective of this course is for students to form a scientific, evidence-based, stance on current and future changes to the Earth's climate. To this end, this course will be based on scientific inquiry into the current state of knowledge. Particular emphases are placed on evidence and causes of change, and the associated environmental and social impacts, including: water resources, extreme weather, human health, and others of interest to the class. (Cross-listed with GEOG 8356, ENVN 8356, ENVN 4350).

**Prerequisite(s):** At least one of the following: GEOG 1030, GEOG 1050, GEOG 3510, GEOG 4320, or permission from instructor

**GEOG 4400 EMERGING TOPICS IN GEOGRAPHY (3 credits)**

Emerging Topics in Geography focuses on the latest research areas in the field of geography. The specific topic of each course set will be based on the research trends in geography. This course will be offered on demand. (Cross-listed with GEOG 8406).

**GEOG 4450 GEOHYDROLOGY (3 credits)**

A course dealing with geology, chemistry and hydraulics of groundwater. Designed mainly for Geology majors but can be helpful to other disciplines where ground water is involved. (Cross-listed with GEOG 8456, GEOL 4450)

**Prerequisite(s):** MATH 1320 or higher, or permission of instructor

**GEOG 4530 HISTORICAL GEOGRAPHY OF THE UNITED STATES (3 credits)**

This course examines the geography, physical and human, real, perceived, or theoretical, of the United States' historical development. It considers the ways history has and has not been affected by geography. It will also cover the field of historical geography, its theories and practices. (Cross-listed with GEOG 8536).

**Prerequisite(s):** Junior and HIST 1110 and HIST 1120 or GEOG 1020 or GEOG 3330



**GEOG 4550 GEOGRAPHY OF ECONOMIC GLOBALIZATION (3 credits)**

A study of the geography of economic globalization and the geography of the world economy. The major topics include the historical development of the world economy and globalization from the geographical perspective, trends in geography of global production, trade and investment, the most important factors and actors in the globalization processes and its geographic effects, geography of transnational corporations, case studies of economic geography of selected industries and service activities, effects of globalization on the developed and developing countries. This course also supports the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with GEOG 8556, CACT 8116).

**Prerequisite(s):** An introductory level human geography course: GEOG 1020 or GEOG 1000

**GEOG 4600 INDEPENDENT RESEARCH (1-3 credits)**

Advanced study in the form of a major paper to give the senior student knowledge of and experience in using government documents, professional, and/or primary materials on a topic. Must be under the supervision of the instructor who is particularly qualified for the topic chosen. (Cross-listed with GEOL 4600).

**Prerequisite(s):** Permission of department chair.

**GEOG 4610 ENVIRONMENTAL MONITORING AND ASSESSMENT (3 credits)**

An interdisciplinary approach to techniques for the design and implementation of environmental inventory and monitoring schemes used to evaluate natural resources. Students work as teams to synthesize information from their backgrounds in geography, geology and ecology to evaluate the impacts of human actions on environmental quality following the framework for environmental assessments provided by the National Environmental Policy Act. Course is organized to accommodate variable needs of students with different backgrounds and career choices. Usually offered every year. (Cross-listed with BIOL 4610, ENVN 4610, GEOL 4610, GEOG 8616, GEOL 8616)

**Prerequisite(s):** Permission of instructor.

**GEOG 4620 GEOGRAPHICAL FIELD STUDIES (3 credits)**

Field experience course based on variable topics and themes. Students must attend the multiple day field trip that will require overnight stays. (Cross-listed with GEOG 8626).

**Prerequisite(s):** Instructor Permission. Not open to non-degree graduate students.

**GEOG 4630 ENVIRONMENTAL REMOTE SENSING (4 credits)**

An introduction to remote sensing science and technology. Emphasis will be placed on multispectral data, matter/energy interactions, sensor system characteristics, photogrammetry, image interpretation, digital image processing, and environmental applications. Formal laboratory instruction will provide students with problem-solving skills and hands-on experience with remote sensing and GIS software. (Cross-listed with GEOG 8636).

**Prerequisite(s):** GEOG 1060 or GEOG 1070 or GEOL 1170. Introductory statistics highly recommended.

**GEOG 4640 CRITICAL ZONE SCIENCE (4 credits)**

This course examines the Critical Zone (CZ), Earth's permeable layer that extends from the top of vegetation to the bottom of groundwater. The CZ is a constantly evolving layer where rock, soil, water, air, and living organisms interact to regulate the landscape and natural habitats; it also determines the availability of life-sustaining resources, including our food production and water quality. CZ science is an interdisciplinary and international endeavor focused on cross-disciplinary science. In this course, we will focus on using data available from the existing National Science Foundation (NSF)-funded CZ Observatories (CZOs) along with readings, discussions and activities to explore interactions within the CZ. (Cross-listed with GEOG 8646, GEOL 4640)

**Prerequisite(s):** One of the following: GEOL 1170, GEOL 1010, GEOG 1030 or GEOG 1050; one chemistry or physics course recommended; or instructor permission.

**GEOG 4660 GEOGRAPHIC INFORMATION SYSTEMS II (4 credits)**

An introduction to advanced geographic information systems (GIS) topics. Emphasis will be placed on algorithms and analysis for information extraction. Topics include spatial interpolation, remote sensing GIS integration, software development, spatial analysis, GIS modeling, and future advances in GIS. Formal laboratory instruction will provide students with GIS experience to solve application problems. Usually offered in Fall. (Cross-listed with GEOG 8666).

**Prerequisite(s):** GEOG 4050 / GEOG 8056

**GEOG 4800 INTERNSHIP IN ENVIRONMENTAL REGIONAL PLANNING EARTH SCIENCE (1-6 credits)**

Internships with local agencies or corporations enable students to gain knowledge and experience and apply their learning in comprehensive regional or environmental planning or environmental science.

**Prerequisite(s):** Senior, major or area of concentration in geography or environmental science and permission

**GEOG 4820 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)**

An introduction to environmental law and regulations intended for students pursuing careers in environmental sciences or related fields. The course emphasizes the origins, implementation, and enforcement of U.S. state and federal laws and regulations. Major federal environmental laws, covering air and water quality, solid and hazardous waste, pollution prevention and remediation, and natural resources will be discussed. Usually offered Fall semesters. (Cross-listed with ENVN 8826, ENVN 4820, BIOL 4820, GEOG 8826, PA 8826).

**Prerequisite(s):** Junior-senior or permission of the instructor.

## Geology (GEOL)

### Geology Undergraduate Courses

**GEOL 1010 ENVIRONMENTAL GEOLOGY (3 credits)**

This is an introductory course for non-majors designed to make students aware of their physical environment and those factors that should influence where we site our home and communities. Topics will include hazards associated with volcanoes, earthquakes, landslides, floodplains and the problems associated with toxic waste disposal.

**Distribution:** Natural/Physical Science General Education course

**GEOL 1100 EARTH SYSTEM SCIENCE (3 credits)**

This course is an introduction to system science as applied to the earth. Students learn about simple earth system models, focusing on the hydrologic, rock and carbon cycles and energy flow through and linkages among them. Students also learn how short and long term global changes result from system interactions.

**Distribution:** Natural/Physical Sci General Education lecture

**GEOL 1104 EARTH SYSTEM SCIENCE LAB (1 credit)**

This laboratory course is an optional companion to GEOL 1100, Earth System Science, but can be taken alone. Computer and web based exercises lead students through scientific investigation of Earth components, processes and systems. Topics include: scientific visualization and methodology, energy flow in the earth environment, convection in fluids, population dynamics, plate tectonics, river systems, coastal systems, biodiversity and Earth system history.

**Distribution:** Natural/Physical Sci General Education lab course

**GEOL 1170 INTRODUCTION TO PHYSICAL GEOLOGY (4 credits)**

Fundamentals of geology. The study of the internal geologic processes and external and erosional and depositional processes which create the subsurface and surface features of the earth. Fundamentals of contour mapping, topographic map interpretation and identification of common minerals and rocks will be covered in a required laboratory period. One field trip required.

**Distribution:** Natural/Physical Sci General Education lecture&lab

**GEOL 1180 INTRODUCTION TO HISTORICAL GEOLOGY (4 credits)**

Basic fundamentals for interpretation of earth history. Deduction of history of earth-moon system through interpretation of geologic phenomena using principles of stratigraphy, sedimentation, structure and fossil content. Global tectonics, encompassing theories of sea-floor spreading and continental drift are presented. Fundamentals and interpretation of geologic environments and geologic maps, coupled with identification of fossils will be covered in a required laboratory period. One Saturday field trip required.

**Prerequisite(s):** GEOL 1170 or GEOL 1070 or permission of Geography-Geology Department.

**GEOL 2014 ENVIRONMENTAL GEOLOGY LAB (1 credit)**

Basic topics such as geohydrology, water quality, waste management (including landfill siting and design), flood frequency, slope stability and earthquake hazards are covered via labs and field trips at a detailed introductory level. Local sites and associated data are used where possible to illustrate fundamental principles and commonly used analytic techniques.

**Prerequisite(s):** GEOL 1010 or GEOG 1170 or GEOG 1030 or permission of instructor.

**GEOL 2100 GEOLOGY OF NEBRASKA (3 credits)**

An introduction to the geologic features of Nebraska, and how the evidence they provide can be used to scientifically interpret the ancient history of the region. A review of the geologic history of Nebraska as it is currently understood will place the events documented in the larger context of Earth history.

**Distribution:** Natural/Physical Science General Education course

**GEOL 2300 GEOSCIENCE DATA ANALYSIS AND MODELING (3 credits)**

Introduction to foundation geoscience analysis and modeling techniques and conceptual frameworks. Topics covered include: describing and comparing populations, geologic map construction, fractals, surface contouring and modeling, non-linear behavior, GIS, graphic representation, photogrammetry, and computer modeling. Examples and exercises work with actual geoscience data. Students also gain experience with data retrieval from geoscience databases.

**Prerequisite(s):** GEOL 1010 or GEOL 1170, or GEOG 1030 or GEOG 1060 or GEOG 1070, or permission of instructor.

**GEOL 2500 SPECIAL TOPICS IN GEOGRAPHY-GEOLOGY (1 credit)**

This course will provide for an in-depth study of a geographical or geological subject (as specified in the course subtitle). Various classes will be offered as sections of GEOL 2500, but will be separate from one another. Students may repeat GEOL 2500 as often as they like as long as no specific subject is duplicated.

**Distribution:** Natural/Physical Science General Education course

**GEOL 2750 MINERALOGY (3 credits)**

Introduction to crystallography and mineralogy. Crystallography section is a study of crystal structure, symmetry and crystal systems. Mineralogy section is devoted to the description, identification and classification of minerals based on their crystal forms, physical properties, chemical composition and occurrence in nature. Must be taken concurrently with GEOL 2754.

**Prerequisite(s):** GEOL 1170. Must be taken concurrently with GEOL 2754.

**GEOL 2754 MINERALOGY LABORATORY (1 credit)**

A systematic investigation of minerals and the techniques of studying minerals to be taken concurrently with GEOL 2750. (Fall)

**Prerequisite(s):** Concurrent enrollment in GEOL 2750

**GEOL 2760 IGNEOUS AND METAMORPHIC PETROLOGY (3 credits)**

A study of the nature, origin, and significance of igneous and metamorphic rocks. Topics include genesis and crystallization of magmas, phase equilibria of mineral assemblages, and pressure and temperature conditions of metamorphism. One weekend field trip will be required. Must be taken concurrently with GEOL 2764.

**Prerequisite(s):** GEOL 2750. Must be taken concurrently with GEOL 2764.

**GEOL 2764 IGNEOUS AND METAMORPHIC PETROLOGY LABORATORY (1 credit)**

Petrology Laboratory is an introduction to the methods of petrology with emphasis on hand specimen identification and use of the petrographic microscope. Must be taken concurrently with GEOL 2760. (Spring)

**Prerequisite(s):** Concurrent enrollment in GEOL 2760

**GEOL 3100 PALEONTOLOGY (3 credits)**

An introduction to the history of life through the study of the fossil assemblages, communities, diversity, evolution, extinction, and how fossils are created. We then explore the history of invertebrates, vertebrates, microfossils, and mass extinctions. (Cross-listed with BIOL 3100).

**Prerequisite(s):** GEOL 1180 or with instructor permission

**GEOL 3104 INVERTEBRATE PALEONTOLOGY LABORATORY (1 credit)**

An examination of representative specimens of groups of organisms important in the fossil record and an introduction to analytical techniques in paleontology. Must be taken concurrently with GEOL 3100. (Cross-listed with BIOL 3104).

**Prerequisite(s):** GEOL 1180 or permission; Concurrent enrollment in GEOL 3100

**GEOL 3300 STRUCTURAL GEOLOGY (3 credits)**

A study of the deformation of rocks in the earth's crust. Recognition of structural features such as types of fractures, folds, faults and foliations. Analysis of stress and strain in rocks under physical conditions occurring in the earth's crust that form structural features. Knowledge of structural associations for crustal shortening, extension and other kinematic regimes.

**Prerequisite(s):** GEOL 2750

**GEOL 3310 STRUCTURAL GEOLOGY FIELD METHODS (1 credit)**

A lab course to accompany GEOL 3300. Field trip is included. Emphasis will be on collection, interpretation and presentation of field and lab data. Must be taken concurrently with GEOL 3300.

**Prerequisite(s):** GEOL 2750, concurrent enrollment in GEOL 3300.

**GEOL 3400 INTRODUCTION TO SEDIMENTARY GEOLOGY (3 credits)**

An introduction to the basic principles and concepts of sedimentology and stratigraphy. It will include a review of sedimentary processes and depositional environments and principles and techniques of stratigraphy, such as biostratigraphy and radiometric dating.

**Prerequisite(s):** GEOL 2750 and GEOL 2754

**GEOL 3700 PLATE TECTONICS (3 credits)**

An introduction to and analysis of the paradigm that has revolutionized the Earth Sciences, the theory of plate tectonics; includes polar wandering and magnetic reversals, structure and life cycle of the oceanic crust, origin of major topographic and structural features of the earth, arc volcanism, continental collisions, mineral deposits, supercontinent cycles and mantle convection.

**Prerequisite(s):** GEOL 1170, GEOL 1180 and upper division standing.

**GEOL 4040 GEOARCHAEOLOGY (3 credits)**

An introduction to geoarchaeology: the application of methods and techniques of geography, geology and other earth sciences to solve archaeological problems and reconstruct past environments. (Cross-listed with GEOG 4040, GEOG 8046).

**Prerequisite(s):** Major in geology or geography; or major in anthropology, philosophy, or religion with GEOG 1030, GEOG 1060 or GEOG 1070; or GEOL 1170 or GEOL 1010; or permission.

**GEOL 4100 BIOGEOGRAPHY (3 credits)**

This course is intended as an introduction to biogeography, the study of the distribution and evolution of organisms across space and through time. Usually offered every year. (Cross-listed with GEOL 8106, BIOL 4100, BIOL 8106, GEOG 4100, GEOG 8106).

**Prerequisite(s):** BIOL 1450 and BIOL 1750 or GEOL 3100 or BIOL 3100, junior-senior.

**GEOL 4200 WATER QUALITY (3 credits)**

This class will apply chemical principles to the aquatic environment to understand how and why water quality varies. Integrated lectures and labs will focus on completing a class-defined, locally-explorable water quality project. Students will also gain basic water sampling and analysis skills. (Cross-listed with GEOG 8206, GEOG 4200).

**Prerequisite(s):** One of the following: GEOL 2750, GEOL 4540, CHEM 1140, CHEM 1180, or instructor permission.

**GEOL 4260 PROCESS GEOMORPHOLOGY (4 credits)**

A lecture and laboratory course focused on understanding Earth surface processes and the evolution of landforms across spatial and temporal scales. The course emphasizes applying unifying concepts in geomorphology, quantitative methodology and modern process-oriented geomorphology to interpret landscape evolution. (Cross-listed with GEOG 8266, GEOG 4260).

**Prerequisite(s):** One of the following: GEOL 1010, GEOL 1170, GEOG 1030, GEOG 1050 or instructor permission.

**GEOL 4300 ENGINEERING GEOLOGY (3 credits)**

The course provides an overview of the application of geologic principles to engineering projects and applications. These would include geologic investigations for engineering projects related to: geologic hazard assessment, foundation design, slope stability, control of groundwater seepage, underground excavation support, erosion control, and evaluation of geologic materials for engineering purposes.

**Prerequisite(s):** Physical Geology (GEOL 1170) or Environmental Geology (GEOL 1010), Structural Geology (GEOL 3300) or permission of instructor.

**GEOL 4330 SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (4 credits)**

This course is designed to familiarize students with basic soil chemical, physical and biological properties, soil morphological characteristics, soil classification and soil forming processes. The course focuses on relationships between soils and environmental factors and how such factors alter soil forming processes. The lab will focus on developing basic field skills, including soil morphological descriptions and soil mapping, as well as common laboratory methods used to analyze soils. (Cross-listed with GEOG 4330, GEOG 8336)

**Prerequisite(s):** One of the following: GEOG 1030, GEOG 1050, GEOL 1010, GEOL 1170 or instructor permission.

**GEOL 4400 GEOPHYSICS (3 credits)**

A study of geophysical techniques used to understand the earth, study environmental problems, and in resource exploration. Seismic, gravity, heat flow, magnetic and other methods will be presented. The insights from these methods into earthquake events, stress distributions, rock rheology and plate tectonics will also be addressed. Interpretive skills will be emphasized. (Cross-listed with PHYS 4400).

**Prerequisite(s):** GEOL 1170, PHYS 1110 or higher, or permission of instructor

**GEOL 4450 GEOHYDROLOGY (3 credits)**

A course dealing with geology, chemistry and hydraulics of groundwater. Designed mainly for Geology majors but can be helpful to other disciplines where ground water is involved. (Cross-listed with GEOG 8456, GEOG 4450).

**Prerequisite(s):** MATH 1320 or higher, or permission of instructor

**GEOL 4500 PALEOCLIMATOLOGY (3 credits)**

Paleoclimatology involves the study of Earth's past climate history to better understand modern climate change. The course explores how we know climate changed in the past using geologic and geochemical proxies and then investigates the Earth's past climates from its birth to modern anthropogenic climate change. The course involves lecture, activities, and critical assessment of scientific literature to better understand Earth's dynamic past.

**Prerequisite(s):** GEOL 1170 or GEOL 1180

**GEOL 4540 GEOCHEMISTRY (3 credits)**

This course will cover the application of chemical principles to geologic systems. Specific topics covered will include the origin of elements and their distribution in the earth, geochronology, stable isotope systems, aqueous geochemistry and crystal chemistry. These topics will be integrated to the study of soils, igneous, metamorphic and sedimentary rocks and ore deposits. (Every third semester). (Cross-listed with CHEM 4540).

**Prerequisite(s):** GEOL 1170, CHEM 1140 or CHEM 1180, and either GEOL 2750 or CHEM 2500, or permission of Instructor

**GEOL 4600 INDEPENDENT RESEARCH (1-3 credits)**

Advanced study in the form of a major paper to give the senior student knowledge of and experience in using government documents, professional, and/or primary materials on a topic. Must be under the supervision of the instructor who is particularly qualified for the topic chosen. (Cross-listed with GEOG 4600).

**Prerequisite(s):** Permission of department chair.

**GEOL 4610 ENVIRONMENTAL MONITORING AND ASSESSMENT (3 credits)**

An interdisciplinary approach to techniques for the design and implementation of environmental inventory and monitoring schemes used to evaluate natural resources. Students work as teams to synthesize information from their backgrounds in geography, geology and ecology to evaluate the impacts of human actions on environmental quality following the framework for environmental assessments provided by the National Environmental Policy Act. Course is organized to accommodate variable needs of students with different backgrounds and career choices. Usually offered every year. (Cross-listed with BIOL 4610, ENVN 4610, GEOG 4610, GEOG 8616, GEOL 8616).

**Prerequisite(s):** Permission of instructor.

**GEOL 4620 ADVANCED FIELD COURSE (6 credits)**

Six weeks of advanced study on selected field problems. Conducted in a geologically classic area where all the major rock types and structures may be studied in a variety of geological situations. Reports, which integrate the geology, surface processes and literature of the studied areas, is required. Recommended to follow the junior year.

**Prerequisite(s):** GEOL 1170, GEOL 1180, GEOL 2750, GEOL 2760, GEOL 3300: GEOL 3450 recommended.

**GEOL 4640 CRITICAL ZONE SCIENCE (4 credits)**

This course examines the Critical Zone (CZ), Earth's permeable layer that extends from the top of vegetation to the bottom of groundwater. The CZ is a constantly evolving layer where rock, soil, water, air, and living organisms interact to regulate the landscape and natural habitats; it also determines the availability of life-sustaining resources, including our food production and water quality. CZ science is an interdisciplinary and international endeavor focused on cross-disciplinary science. In this course, we will focus on using data available from the existing National Science Foundation (NSF)-funded CZ Observatories (CZOs) along with readings, discussions and activities to explore interactions within the CZ. (Cross-listed with GEOG 4640, GEOG 8646)

**Prerequisite(s):** One of the following: GEOL 1170, GEOL 1010, GEOG 1030 or GEOG 1050; one chemistry or physics course recommended; or instructor permission.

**GEOL 4800 INTERNSHIP IN ENVIRONMENTAL/REGIONAL PLANNING/EARTH SCIENCE (3 credits)**

Internship with local agencies or corporations enabling students to gain knowledge and experience in geology, comprehensive regional or environmental planning, or environmental science.

**Prerequisite(s):** Senior, major or area of concentration in Geology or Environmental Science and permission.

**GEOL 4950 SENIOR THESIS (3 credits)**

An independent research project undertaken by all geology majors during their final year. Topics will be selected in consultation with appropriate faculty and researched through field work, laboratory work and/or library sources.

**Prerequisite(s):** Senior, ENGL 1150/ENGL 1154 and ENGL 1160/ENGL 1164

**Distribution:** Writing in the Discipline Single Course

## German (GERM)

### German Undergraduate Courses

**GERM 1010 LINGUISTIC DIVERSITY IN US MEDIA (3 credits)**

Delivered in English, this course introduces students to diversity in the US using language in context as points of departure. In this course, we analyze the intersection between language and ideological constructions (e.g., the objectification of Latino women, discrimination and stereotypes toward Asian peoples) and examine nodes of social meaning through visual and audio representations of language, as consumed in music, tv series, art (e.g., street art, installations) and social media. Departing from a US-centric and an assimilative approach, the course provides a historical and geographic lens through which these languages exist in the United States. (Cross-listed with WLL 1000, FREN 1010, JAPN 1020, SPAN 1010).

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**GERM 1110 ELEMENTARY GERMAN I (5 credits)**

Elementary German I emphasizes the mastery of all four language skills (speaking, listening, reading, and writing) and introduces cultural issues from the German-speaking world.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**GERM 1120 ELEMENTARY GERMAN II (5 credits)**

German 1120 is the second course in the 16-hour Arts and Sciences Foreign Language requirement. It is communicative in approach and emphasizes the mastery of all language skills including speaking, listening, reading, and writing. It also includes a cultural component.

**Prerequisite(s):** GERM 1110 with a grade of C- or better, or placement by department diagnostic exam. Department permission is needed for transfer credit.

**GERM 1210 GERMAN FOR BEGINNERS I (3 credits)**

German 1210 helps you prepare for the moments when Google Translate fails and your German-speaking friend is talking way too fast! In this course, you will learn to handle real-life situations - such as ordering schnitzel, talking about your hobbies, or learning how Oktoberfest originated and how it is celebrated today. Because life does not come with subtitles, we will focus on building all language skills, including speaking, listening, reading, and writing skills so you can confidently dive into speaking German. Get ready to mispronounce words, laugh at yourself, and walk away knowing a whole lot more than just "Gesundheit."

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**GERM 2110 INTERMEDIATE GERMAN I (3 credits)**

German 2110 is the third course in the 16-hour Arts and Sciences Foreign Language requirement. It is communicative in approach and emphasizes the mastery of all language skills including speaking, listening, reading, and writing. It also includes a cultural component.

**Prerequisite(s):** GERM 1120 with a grade of C- or better, or placement by department diagnostic exam. Department permission is needed for transfer credit.

**GERM 2120 INTERMEDIATE GERMAN II (3 credits)**

German 2120 is the fourth course in the 16-hour Arts and Sciences Foreign Language requirement. It is communicative in approach and emphasizes the mastery of all language skills including speaking, listening, reading, and writing. It includes a culture component.

**Prerequisite(s):** GERM 2110 with a grade of C- or better, or placement by department diagnostic exam. Department permission is needed for transfer credit.

**GERM 3030 GERMAN CONVERSATION (3 credits)**

This course focuses on improving students' oral production of German including improvements to pronunciation, fluidity, and vocabulary.

**Prerequisite(s):** GERM 2120 or placement by Department of Foreign Languages diagnostic examination, or permission from instructor.

**GERM 3040 GERMAN GRAMMAR & COMPOSITION (3 credits)**

The course will review previously studied grammar topics in the German language, as well as cover more advanced grammar points that are essential for expressing complex ideas. It will focus on writing strategies for writing in a foreign language, for developing a descriptive essay and a narrative.

**Prerequisite(s):** GERM 2120, placement by Department of Foreign Languages diagnostic examination, or departmental permission.

**GERM 3060 READINGS IN GERMAN (3 credits)**

This course aims to increase students' fluency in reading and to develop comprehension skills that will help them in advanced language studies. The course will also enrich students' vocabulary through the use of a variety of primary sources; many genres will be sampled.

**Prerequisite(s):** GERM 2120; Not open to non-degree graduate students

**GERM 3190 LISTENING COMPREHENSION (3 credits)**

Students will strengthen their listening comprehension skills in a wide variety of genres.

**Prerequisite(s):** GERM 2120 or placement into the 3000-level in German or permission from the instructor

**GERM 3250 CONTEMPORARY CULTURE IN GERMAN SPEAKING COUNTRIES (3 credits)**

In this course students will learn about the political, social, economic, and aesthetic life in German-speaking countries.

**Prerequisite(s):** GERM 2120 with a grade of C- or better, placement by department diagnostic exam, or instructor permission. Department permission is needed for transfer credit.

**GERM 3370 GERMAN HISTORY FROM THE BEGINNINGS UNTIL THE EARLY MODERN PERIOD (3 credits)**

This course covers history, art, architecture, customs, and philosophy of central Europe and the German-speaking world from prehistory until the early 18th century.

**Prerequisite(s):** GERM 2120 or permission.

**GERM 3380 GERMAN HISTORY FROM THE ENLIGHTENMENT TO THE PRESENT (3 credits)**

This course will cover the history, art, architecture, customs, and philosophy of central Europe and the German-speaking world from the Enlightenment until the present.

**Prerequisite(s):** GERM 2120 or permission.

**GERM 3580 GERMAN FOR PROFESSIONAL LIFE (3 credits)**

This course focuses upon the development of German language skills and concomitant cultural awareness that can be utilized to conduct oneself appropriately in professional situations in German-speaking countries.

**Prerequisite(s):** GERM 2120 or the equivalent.

**GERM 3650 INTRODUCTION TO GERMAN FILM (3 credits)**

This course introduces students to seminal works in the history of German film.

**Prerequisite(s):** GERM 2120 or by permission.



**GERM 4040 ADVANCED COMPOSITION AND STYLISTICS (3 credits)**

In this capstone course, required for the completion of the major, learners will explore and practice advanced grammatical structures, write compositions in a variety of genres, and familiarize themselves with advanced stylistics.

**Prerequisite(s):** Last two semesters of the major or permission of the department. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**GERM 4150 INTRODUCTION TO GERMAN LITERATURE (3 credits)**

Introduction to the history of literature of Germany, Austria, and German-speaking Switzerland. Students will read selections from the 18th, 19th and 20th centuries.

**Prerequisite(s):** GERM 3060 or instructor permission.

**GERM 4160 BLACK GERMANY: PEOPLE AND CULTURE (3 credits)**

The course addresses fiction, film, photography, music and journalism to dive into Black people's contribution to German culture. From the formation of a Black community in imperial Germany, to the African American GI's role in postwar democratization process, the artistic output of so-called "occupation babies" born in the wake of WWII, to contemporary artists who continue to expand and refine German culture. The African Diaspora in Germany is a rich field to expand our notion of global connectedness and cultural identity, while taking a deep dive into contemporary German culture and social developments. (Cross-listed with GERM 8166).

**GERM 4210 TRANSLATING GERMAN (3 credits)**

Students learn basic translation theory and techniques from the German to the English language.

**Prerequisite(s):** GERM 3030 and GERM 3040 or by permission

**GERM 4220 THE STRUCTURE OF GERMAN (3 credits)**

A survey of the linguistic structure of modern German, including phonology, morphology, and syntax. (Cross-listed with GERM 8226).

**Prerequisite(s):** GERM 3040 and GERM 4610, or permission of instructor.

**GERM 4900 INDEPENDENT STUDY (1-3 credits)**

This is a course in which an individual student or a small group of students complete specially planned readings in a well-defined field of study, carried out under the supervision of a member of the foreign language faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated for credit once.

**Prerequisite(s):** GERM 2120 or placement by Department of Foreign Languages diagnostic examination, or permission from instructor.

**GERM 4950 PRO-SEMINAR: LITERATURE AND/OR FILM (3 credits)**

This course is dedicated to the study of a narrow field of the literature and/or cinema of the German-speaking world. (Cross-listed with GERM 8956).

**Prerequisite(s):** GERM 3030, GERM 3040, and GERM 3060

**GERM 4960 PRO-SEMINAR: SOCIETY AND CULTURE (3 credits)**

This course will address a narrow field of study of the civilization, history, film, contemporary culture, art, politics, and/or cultural studies of the German-speaking world. (Cross-listed with GERM 8966).

**Prerequisite(s):** GERM 3030, GERM 3040, and GERM 3060

**GERM 4970 PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (3 credits)**

This course will address a narrow field of study of linguistics, translation/interpretation or the professional language of the German-speaking world. (Cross-listed with GERM 8976).

**Prerequisite(s):** GERM 3030, GERM 3040, and GERM 3060.

# Gerontology (GERO)

## Gerontology Undergraduate Courses

**GERO 2000 INTRODUCTION TO GERONTOLOGY (3 credits)**

An introduction to social gerontology and human development in later life; emphasis is on important elements of aging, such as socialization, family interaction, retirement, physical and psychological aging, and perceptions of older persons in contemporary society.

**Distribution:** Social Science General Education course and U.S. Diversity General Education course

**GERO 3000 COMMUNITY RESOURCES FOR OLDER ADULTS (3 credits)**

This course is designed to introduce the student to community resources for older adults, to identify the organizations and individuals in the public and private sectors that help support aging in place, and to examine the impact of the efforts on older adults at the national, state and local levels.

**Prerequisite(s):** Completion of GERO 2000. Not open to non-degree graduate students.

**GERO 3070 DEATH AND DYING (3 credits)**

An interdisciplinary survey of literature in the field of thanatology, with an emphasis on working with the older patient and his or her family. (Cross-listed with PHHB 3070).

**GERO 3250 RESEARCH METHODS IN GERONTOLOGY (3 credits)**

This course will introduce undergraduate students to basic methodologies used in social and gerontological research. Students will explore the fundamentals of research methods, including learning how to formulate a research question, discuss and distinguish between multiple methods of data collection, perform various techniques used in quantitative and qualitative data analysis, and identify the ethics involved in social research. This course is intended for students in gerontology and in other fields who are interested in a humanistic approach to understanding significant issues which affect the lives of older people.

**GERO 3500 BIOLOGICAL PRINCIPLES OF AGING (3 credits)**

The Biological Bases of Aging Course provides a survey of the primary topics in the biology of aging field for undergraduate students. This is a required course for the Gerontology major. By the end of the course, students will understand major theories, biological methods, and seminal research studies in the biology of aging field. Furthermore, students will learn how to critically analyze and interpret primary research about biological aging. This course provides preparation for students considering graduate school in gerontology or biology, geriatric nursing and social work, geriatric medicine, neuroscience, psychology, and exercise science. (Cross-listed with BIOL 3500, NEUR 3500)

**Prerequisite(s):** Sophomore/Junior/Senior Standing. Not open to non-degree graduate students.

**GERO 4050 ADVANCED BIOLOGY OF AGING (3 credits)**

This course covers biological aging topics at an advanced level, and is designed for undergraduate and graduate students who have some prior knowledge about biology or aging. The course will be interdisciplinary in nature and focus on topics relevant to gerontology, biology, psychology, and exercise science. Students will learn how to think critically about primary research in the biology of aging. Furthermore, they will apply their knowledge of the biology of aging field by creating a handbook of healthy aging for older adults. (Cross-listed with GERO 8056, NEUR 4050).

**GERO 4100 EDUCATIONAL GERONTOLOGY (3 credits)**

An introduction to the field of education for and about the aging. The institutions and processes of education will be analyzed to determine their relationships and value to persons who are now old and those who are aging. (Cross-listed with GERO 8106).

**Prerequisite(s):** Students must have a junior, senior or graduate student status.



**GERO 4200 VOLUNTEER MANAGEMENT (3 credits)**

The purpose of this course is to equip managers of volunteers in aging services to develop, maintain, assess impact and evaluate a sustainable volunteer program that will provide reliable and necessary services to older adults and further to be embraced as a valuable asset by professionals working in the field of aging. (Cross-listed with GERO 8206).

**Prerequisite(s):** Sophomore, Junior, or Senior Standing

**GERO 4350 ISSUES IN AGING (3 credits)**

This course is intended for students in gerontology and in other fields who are interested in a humanistic approach to understanding significant issues which affect the lives of older people. (Cross-listed with GERO 8356).

**GERO 4420 RECREATION FOR THE AGING (3 credits)**

Role of leisure services as related to understanding and working with elders. Emphasis on recreation programming as a mode of intervention. Analysis and study of the phases of aging, with reference to psychomotor, affective, and cognitive changes; introduction to the theories of aging and how they relate to the lifestyle of this population; recreational therapy intervention, activity adaptation and program design; leisure education and issues and trends. (Cross-listed with GERO 8426, RLS 4420, RLS 8426).

**GERO 4440 SOCIOLOGY OF AGING (3 credits)**

This course will introduce students to important theories and concepts in the sociological study of aging and give deeper understanding of the experiences that people encounter as they grow older, including retirement, disease and disability, and long-term care. In addition to exploring the challenges faced by older adults, this course will focus on factors that contribute to successful aging. (Cross-listed with GERO 8446, SOC 4300, SOC 8306).

**GERO 4460 PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (3 credits)**

The focus of this course is on the major social and psychological changes that occur as a function of aging. Both normal and abnormal patterns of developmental change are examined, along with their implications for behavior. (Cross-listed with PSYC 4460, GERO 8466).

**Prerequisite(s):** Sophomore, Junior, or Senior.

**GERO 4470 MENTAL HEALTH AND AGING (3 credits)**

The goal of this courses is to survey the mental health needs of older adults. Consideration is given to identifying both positive mental health and pathological conditions. Treatment interventions effective with older adults and their families are also discussed. (Cross-listed with GERO 8476, PSYC 4470, PSYC 8476).

**Prerequisite(s):** Sophomore, Junior, or Senior

**GERO 4480 GLOBAL AGEING (3 credits)**

The study of ageing around the world by a comparative method in a cross-cultural and cross-national framework. An explanation of some practical experiences and developments in Europe, Asia and Africa will be examined. (Cross-listed with GERO 8486).

**GERO 4500 LEGAL ASPECTS OF AGING (3 credits)**

This course centers on the legal concerns likely to arise as people age. We will discuss the American legal system with an emphasis on underlying legal concepts and issues of special importance to older persons. Some of the topics include guardianship, finances in retirement, abuse and neglect, Social Security, and Medicare and Medicaid. Consideration of the legal concerns which are likely to arise as people age. Includes introduction to American legal system, and emphasis on underlying legal concepts and issues of special importance to older persons. (Cross-listed with GERO 8506).

**GERO 4510 LONG-TERM CARE ADMINISTRATION (3 credits)**

An investigation of the broad range of policy issues, theoretical concerns and practical management strategies influencing the design, organization and delivery of long-term care services. (Cross-listed with GERO 8516, PA 4510, PA 8516).

**GERO 4520 SENIOR HOUSING (3 credits)**

The senior housing course is designed to provide students with an in-depth understanding of the various housing options available to older adults including aging in place to hospice. At the end of the course students will have a working knowledge of the needs of older adults and how this is used in making decisions about housing. (Cross-listed with GERO 8526).

**Prerequisite(s):** Sophomore/Junior/Senior Standing

**GERO 4550 HEALTH ASPECTS OF AGING (3 credits)**

This course emphasizes health promotion for older adults. Special health needs of older Americans are compared and contrasted with health needs for other age groups. Prevention or delaying of chronic diseases and disorders are emphasized. (Cross-listed with GERO 8556, PHHB 4550, PHHB 8556, WGST 4550).

**GERO 4560 NUTRITION AND AGING (3 credits)**

The goal of this course is to provide an understanding of the relationship between nutrition and successful or usual aging. This course will review the basics of good nutrition and relate them to the usual food intake of older adults. It will identify the impact of poor nutrition. This course will also look at the role nutrition plays in various disease processes that are associated with aging. It will provide information about support services that are available to assure good nutrition into old age for those living independently. (Cross-listed with GERO 8566).

**Prerequisite(s):** Sophomore Standing.

**GERO 4570 REHABILITATIVE DESIGN (3 credits)**

The purpose of this interdisciplinary course is to provide students with a greater appreciation and understanding of impairment as a platform for professional activities. This course will also provide an understanding of how Rehab Engineering, Universal and Inclusive Design and the implementation of Assistive Technology allow for greater levels of independence and quality of life for all members of our community, with an emphasis on the applications in the aging process. (Cross-listed with GERO 8576).

**GERO 4600 MANAGEMENT AND ADMINISTRATION OF AGING PROGRAMS (3 credits)**

This course is designed to give students a broad overview of theories, models, issues and approaches related to the administration of services and programs for older adults. (Cross-listed with GERO 8606).

**Prerequisite(s):** Sophomore/Junior/Senior Standing

**GERO 4670 PROGRAMS AND SERVICES FOR OLDER ADULTS (3 credits)**

This course is provided to give the student an historical overview of programs for older adults; examine the national policy process as it relates to the older American; and review the principles and practices relative to the existing national programs for the aged. (Cross-listed with GERO 8676, PA 8676).

**Prerequisite(s):** Must be sophomore standing. Not open to non-degree graduate students.

**GERO 4690 WORKING WITH MINORITY ELDERLY (3 credits)**

This course is designed to provide the student with knowledge of the differing status, attitudes, and experiences of older adults who identify as members of minority groups in the U.S. This course examines various social policies, service systems, and practice models in terms of their relevance and effectiveness in meeting the needs of an increasing and diverse aging population. (Cross-listed with GERO 8696, SOWK 4040, SOWK 8046).

**GERO 4720 BABY BOOMERS AND THE 21ST CENTURY (3 credits)**

Marketing decisions and strategies apply to all businesses and are influenced by the target market. The economic realities and the character of America will change due to shifting demographics of baby boomers. Businesses that understand the power of the baby boomers will succeed; failure to understand that power may lead to economic consequences. Students from many disciplines will benefit from this cross-referenced course blending the realities of gerontology with the predictions of baby boomer behavior and the resulting impact to all businesses. (Cross-listed with GERO 8726).

**Prerequisite(s):** Sophomore, Junior, Senior or Graduate Level Standing.

**GERO 4750 MID-LIFE, CAREER CHANGE, PRERETIREMENT PLANNING (3 credits)**

This course is designed to involve candidates in the exploration of the developmental tasks of mid-life, myths and realities related to career change as well as the implication of preretirement planning. Factual information, as well as model examination and evaluation are presented to aid the candidate in becoming better equipped to understand some of the forces which affect the well-being of middle aged persons as they prepare for the later years. (Cross-listed with COUN 8756, GERO 8756).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**GERO 4850 HOSPICE & OTHER SERVICES FOR THE DYING PATIENT/FAMILY (3 credits)**

This course examines the hospice concept and other related services available in the community. The student will learn that hospice is an alternative to the traditional medical model. (Cross-listed with GERO 8856, SOWK 4850, SOWK 8856.)

**GERO 4920 SPECIAL STUDIES IN GERONTOLOGY (1 credit)**

Special studies designed around the interests and needs of the individual student in such areas as the psychology, sociology, economics, biology, or politics of aging, as well as operation of various service systems. This independent study may include a literature review or a field project in which experience is gained in the community, identifying and analyzing needs and services related to older people.

**Prerequisite(s):** Instructor permission.

**GERO 4940 PRACTICUM (3 credits)**

This course provides the opportunity to students to share field experiences; to obtain guidance concerning various relationships with agency, staff and clients; and to develop a broadly based perspective of the field of aging.

**Prerequisite(s):** Nine hours in gerontology and permission. Students must be enrolled in the GERO program and have a minimum GPA of 2.5. Not open to non-degree graduate students.

**GERO 4950 PALLIATIVE CARE: MENTORING A HEALTHCARE APPROACH OF PATIENT-CENTERED CARE WITH FOCUS ON WELL-BEING (3 credits)**

This course provides a foundation for the recognition of the need to implement palliative medical care. Using current texts and literature, video and podcast lectures by colleagues, and review of cases and topics, a student will understand the definitions, purposes, and benefits of palliative medical care. The student will learn the avenues and ways to implement palliative care to provide care that promotes well-being. (Cross-listed with GERO 8956).

**Prerequisite(s):** Junior, senior, graduate standing

**GERO 4970 SENIOR HONORS PROJECT/THESIS (3 credits)**

An independent research project supervised by gerontology department/school faculty. The senior honors project must be approved by the University Honors Program.

**Prerequisite(s):** Senior in the University Honors Program.

**GERO 4980 COUNSELING SKILLS IN GERONTOLOGY (3 credits)**

This course is intended to help develop basic counseling skills for application in gerontology. (Cross-listed with COUN 8986, GERO 8986).

**Prerequisite(s):** Not open to non-degree graduate students.

## Goodrich Program (GDRH)

### Goodrich Program Undergraduate Courses

**GDRH 2110 CORE TOPICS IN THE SOCIAL SCIENCES: LIFESPAN DEVELOPMENT (3 credits)**

This course surveys the growth and development of humans from the prenatal stage through the end of life. Emphasis is on physical, cognitive, and socio-emotional processes with special attention given to the cultural contexts of development and the rich diversity that is produced. Key elements of the course include the importance of the scientific methods, socio-cultural comparisons, and critical thinking considerations.

**Prerequisite(s):** Acceptance into the Goodrich Scholarship Program and typically completion of the freshmen curriculum. Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**GDRH 2120 CORE TOPICS IN SOCIAL SCIENCES: SOCIAL ISSUES (3 credits)**

This course uses the methods of the social sciences to help students understand social issues facing our society such as health care, aging, poverty, crime, the environment, racial and ethnic diversity, the economy, and education. Students are challenged to think critically and imaginatively about social problems and how the issues affect local, national, and global communities.

**Prerequisite(s):** Students are expected to be accepted into the Goodrich Scholarship Program. Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**GDRH 3010 SPECIAL TOPICS SEMINAR (1-3 credits)**

The content of this topical seminar varies each semester. May be repeated as long as the topic is not the same.

**Prerequisite(s):** May vary with each offering.

## Health & Kinesiology (HEKI)

### Health & Kinesiology Undergraduate Courses

**HEKI 2000 MEDICAL TERMINOLOGY (1 credit)**

This course provides students the foundation for understanding medical language and terminology used in health-related careers. Students will gain an understanding of the basic elements used to build and analyze medical terms used to describe the human body. Utilizing the body systems approach, students will learn correct pronunciation, definitions, and spelling used to describe the human body, pathological processes, procedures, as well as conditions and diseases that affect it.

**HEKI 2100 STATISTICS IN HEALTH AND KINESIOLOGY (3 credits)**

This class is designed to present an introduction to statistical evaluation of testing and measurement techniques commonly used in health and kinesiology. Appropriate test selection, administration, and the interpretation of results with fundamental statistical methods will be emphasized.

**Prerequisite(s):** MATH 1220, or ACT Math sub score of at least 23, or Accuplacer score of at least 4, or Math SAT score of at least 540

**HEKI 2400 HEALTH ED. & PHYSICAL ED. FOR THE ELEMENTARY SCHOOL TEACHER (2 credits)**

This course is designed to aid the classroom teacher in developing and implementing Physical Education and Health education concepts, which can be used in a broad scope of elementary school curriculum.

**Prerequisite(s):** TED 2300

**HEKI 3090 APPLIED NUTRITION (3 credits)**

This foundational nutrition course uses nutritional concepts and scientific inquiry to explore the impact of nutrition on individuals and society as a whole. Students will explore the role of nutrients in food as they relate to human performance and disease. Additionally, they will gain knowledge and skills to evaluate food choices, dietary guidelines, and current diet trends and the implications for both long and short-term health.

**Distribution:** Natural/Physical Science General Education course

**HEKI 4100 ADVANCED MUSCULOSKELETAL ANATOMY (3 credits)**

This course is designed for students interested in healthcare careers, specifically in the rehabilitation sciences, wanting to improve their knowledge of the musculoskeletal system. Emphasis will be placed on palpations, range of motion assessment, and strength testing of various muscles and joints throughout the body. This course will consist of largely hands-on activities working in small groups. (Cross-listed with HEKI 8106).

**Prerequisite(s):** Prerequisites - BMCH 2400 or BIOL 2740, or instructor permission.

**HEKI 4440 HEALTH SCIENCE EDUCATION (3 credits)**

This course is designed to prepare candidates for the field of Health Science Education. This course aims to provide best-practices education related to implementing, conducting, and teaching a health science curriculum in P-12 schools. (Cross-listed with HEKI 8446).

## History (HIST)

### History Undergraduate Courses

**HIST 1000 WORLD HISTORY TO 1500 (3 credits)**

An examination of selected traditional and pre-industrial civilizations in the context of their regional, cultural and historical roots.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**HIST 1010 WORLD HISTORY SINCE 1500 (3 credits)**

An examination of selected societies since the beginning of the modern era.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**HIST 1050 CLASSICAL AFRICAN CIVILIZATIONS (3 credits)**

Classical African Civilization is an introductory survey of the civilizations of Africa and African people prior to 1500 C.E., with emphasis on the evolution of the peoples and nations, their civilizations, and the rise and fall of indigenous states. In particular, this course will cover the classical civilizations of Kemet (Ancient Egypt), Nubia, Axum, Carthage, Ghana, Mali, and Songhay. (Cross-listed with BLST 1050).

**Distribution:** Global Diversity General Education course

**HIST 1110 AMERICAN HISTORY TO 1865 (3 credits)**

A survey of North American history from the Indigenous and pre-contact era to the end of the Civil War.

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**HIST 1120 AMERICAN HISTORY SINCE 1865 (3 credits)**

A general survey of American history since the Civil War, emphasizing social and political change and the emergence of the United States as a global power.

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**HIST 2030 HISTORY OF MEDICINE: FROM ANTIQUITY TO THE PRESENT (3 credits)**

This course will cover the history of medicine and medical practices from the earliest civilizations to the present. In addition to this chronological scope, the course will also examine medical practices in cultures from across the world. (Cross-listed with MEDH 2030).

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**HIST 2040 AFRICAN AMERICAN HISTORY I: 1619-1865 (3 credits)**

The course examines the history of the earliest Africans in the Americas and briefly examines traditional African societies. It covers the transatlantic slave trade and its effects on Europe, Africa and the Americas, and analyzes the development of Afro-American culture and the struggle for freedom.

(Cross-listed with BLST 2410)

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**HIST 2050 AFRICAN-AMERICAN HISTORY II: 1865-1954 (3 credits)**

A survey of Afro-American history from the Civil War to the present. Covers Reconstruction and its overthrow, including the new methods of control which replaced slavery. Discusses the development of black ideologies and institutions. Traces urban migration and its impact on black society and culture. Follows black progress through World War II, the 1954 Supreme Court Decision, and rising militancy. (Cross-listed with BLST 2420)

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**HIST 2060 AFRICAN AMERICAN HISTORY III: 1954-PRESENT DAY (3 credits)**

This course is divided into three main parts: the Civil Rights Phase (1954-1963), during which the dominant mood was optimism over the possibilities of integration; the Black Power Phase (1963-1974), and the Pragmatist Phase (1972-present), characterized by attempts to preserve and maintain gains already won. (Cross-listed with BLST 2430)

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**HIST 2190 THE MODERN MIDDLE EAST (3 credits)**

An interdisciplinary study of the social, religious, and historical dimensions of contemporary issues and events which make the Middle East cultural and geographic region a center of global tensions. After providing a background of how Islam spread in and unified the region, students will study factors which have shaped the Middle East from the late Ottoman period to the present, analyzing the principal sociocultural and political economic developments in the Middle East from the early 19th century to the early 21st century. (Cross-listed with RELI 2190, SOC 2190).

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**HIST 2480 HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT (3 credits)**

A history of the nations of Latin America from the pre-Columbian indigenous cultures to the present time. Among the topics included will be the nature of indigenous cultures, the various European incursions, regional revolutions against European empires, nation-building, and the place of Latin America in global history. (Cross-listed with LLS 2480).

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**HIST 2510 ANCIENT GREECE: BRONZE AGE TO CLASSICAL ERAS (3 credits)**

A study of cultures in the Aegean/Eastern Mediterranean, from the Bronze Age through Classical-era Greece, to better appreciate their influence on later cultures, especially those of Rome, Europe, and North America.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**HIST 2520 ANCIENT HISTORY - ROME (3 credits)**

A survey of Roman history including Rome's wars of expansion, the rise and fall of the Republican government, the reorganization of the state under the emperors, and the nature of Rome's Empire and its peoples. The course will also examine aspects of Roman society, including living conditions, family organization, religion, and the diversity of Roman culture, including in the visual arts.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Global Diversity General Education course

**HIST 2540 INTRODUCTION TO EGYPTIAN HIEROGLYPHS (3 credits)**

Introduction to Egyptian Hieroglyphics will provide students with fundamental elements of Kemetic (ancient Egyptian) grammar, vocabulary, transliteration, and translation. Egyptian hieroglyphs, classically referred to as the "medu netcher," is the oldest written language on the African continent. Students will embark on an examination of primary texts which reveal important features of classical Egyptian culture and civilization. By studying this ancient African language, students will gain historical knowledge of the ancient cultures of Kemet and other classical Nile Valley civilizations. (Cross-listed with BLST 2540).

**HIST 2620 MODERN BRITAIN (3 credits)**

This course will provide an overview of some of the major events in modern British history, considering both national and global perspectives. Topics covered will include empire, war, industrialization, technology, welfare, decolonization, gender, and pop culture along with a myriad of other subjects.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Global Diversity General Education course

**HIST 2710 A HISTORY OF RUSSIA FROM KIEVAN RUS' TO THE CRIMEAN WAR (3 credits)**

This course will examine Russian history beginning with the medieval Kievan state. The course will examine the consolidation of the Russian state under Ivan IV, the geographical expansion of Russia, the great reforms under Peter the Great, and conclude with the crisis of the Russian state following the Crimean War.

**HIST 2720 RUSSIA: FROM THE CRIMEAN WAR TO THE PRESENT (3 credits)**

This course examines Russian history from the great reforms ushered in under Alexandr II to the present day. Among the topics covered are the crisis of Imperial Russia, the Bolshevik Revolution, life in the USSR, the USSR in the Second World War, the USSR in the Cold War, the collapse of communism, and the changes in Russian society since 1991.

**Distribution:** Global Diversity General Education course

**HIST 2810 HISTORY OF CHINA: FROM THE MANCHU CONQUEST TO THE PRESENT (3 credits)**

This course examines Chinese history from the seventeenth-century Manchu conquests to the present. Topics covered will include the nature of the Manchu-Qing Dynasty, the destabilization which began in the nineteenth century, growing pressure exerted by other powers, and the rise and rule of the Chinese Communist Party.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Global Diversity General Education course

**HIST 2820 JAPAN: FROM WARRING STATES TO THE MODERN DAY (3 credits)**

This course will examine the course of Japanese history beginning with the Warring States (Sengoku) era of fifteenth and sixteenth centuries. It will then continue by assessing unified Japan under the Tokugawa bakufu, the initial stability of this period, then the growing tensions which led to the collapse of the bakufu state in the 1860s. From there, the course will analyze the emergence of modern Japan during the Meiji Restoration, its evolution to a military state, and then conclude with an assessment of Japan's transformation in the post-World War II era.

**Distribution:** Global Diversity General Education course

**HIST 2920 HISTORY OF MODERN AFRICA (3 credits)**

This course covers the era of the beginning, development and decline of European colonialism in Africa. The movement for decolonization, the emergence of independent sovereign nations and the strategic role that Africa plays in the forum of industrialized and developed nations is investigated. It examines the impact of European cultures and forced labor on traditional Africa, and the struggle for a resolution of the conflict between the three major traditions on the continent - Western and Indigenous. Religious indigenous practices are also considered, along with Christian and Islamic cultures. (Cross-listed with BLST 2120).

**HIST 2980 HISTORICAL METHODOLOGY (3 credits)**

The critical method in collecting, organizing, and presenting historical material. Required for history majors. Students are encouraged to enroll in this course as soon as possible after declaring their major.

**Prerequisite(s):** ENGL 1160 and permission of department chair or chair's designee. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**HIST 2990 PEOPLE AND ISSUES IN HISTORY (3 credits)**

An in-depth investigation of a topic as announced in the course subtitle. Students may enroll for different sections as long as no specific subject is duplicated.

**Prerequisite(s):** Not open to non-degree graduate students.

**HIST 3520 HISTORY OF ROMAN EMPIRE (3 credits)**

This course examines the Roman Empire (30 BC to AD 476), also known as the Principate, with the class's main focus on its first three centuries. The course covers the rise of the Imperial government, its development, and the challenges it faced in the reigns of different emperors. Included will be discussion of Rome's relationship with neighboring kingdoms, with the peoples in its own provinces, and with religious minority groups such as the Jews and Christians.

**Prerequisite(s):** Junior status or permission of instructor. Students must have written permission from the course instructor to apply the course to the requirements of the Ancient Mediterranean Studies Minor.

**HIST 4010 RELIGION IN EARLY AMERICA (3 credits)**

This course examines the history and nature of religion in North America to c. 1770 with an emphasis on the British colonies. (Cross-listed with HIST 8016, RELI 4050).

**Prerequisite(s):** Junior or senior standing. Not open to non-degree graduate students.

**HIST 4040 HOMESCAPES: THE MATERIAL CULTURE OF EVERYDAY LIFE IN AMERICA, 1600-1860 (3 credits)**

This course examines the culture and technologies of house forms and work landscapes in North America, 1600-1860. (Cross-listed with HIST 8046).

**Prerequisite(s):** 60 hours. Not open to non-degree graduate students.

**HIST 4050 HISTORY OF WOMEN IN AMERICA TO 1875 (3 credits)**

This course examines the history of women in what is now the United States from the seventeenth century to 1875. Topics include law, work, sexuality and reproduction, slavery, cross-cultural encounters, religion, political activism, and the transformation of gender by the market and industrial revolutions. (Cross-listed with HIST 8056).

**Prerequisite(s):** Junior standing or permission of the instructor. Not open to non-degree graduate students.

**HIST 4060 HISTORY OF WOMEN IN AMERICA FROM 1875 - 1992 (3 credits)**

This course examines the history of women in the United States from 1875 to 1992. Topics include law, work, sexuality and reproduction, immigration, civil rights, political participation and party politics, and changes to the American gender system, including family structure and employment. (Cross-listed with WGST 4060, WGST 8066, and HIST 8066).

**Prerequisite(s):** Junior or permission of instructor; Not open to non-degree graduate students.

**HIST 4070 SLAVERY AND RACE RELATIONS IN THE AMERICAS (3 credits)**

Slavery and Race Relations in the Americas examines the historical relationship between the trans-Atlantic slave trade and American race relations, connecting the enslavement of Africans in the Americas to race relations in the Caribbean, Latin America, and the United States. (Cross-listed with BLST 4650, BLST 8656, HIST 8076, LLS 4650, LLS 8656).

**Prerequisite(s):** Junior or senior standing

**Distribution:** U.S. Diversity General Education course



**HIST 4080 THE BLACK ATLANTIC (3 credits)**

This course examines the cultural and ethnic history of Black people who comprised "The Black Atlantic." The course is organized historically and begins with a brief overview of the European slave trade on the West African Coast in the 15th century. From there, we look critically at the arrival of Africans to the New World, examine varieties of slavery and freedom in the Americas, and conclude with slave revolts and emancipation activism in the 18th and 19th century. We will use the Haitian Revolution (in which Haiti became the first country to be founded by formerly enslaved people) as a special case study, a conduit for our exploration of this socio-cultural, economic, and Diasporic space. (Cross-listed with BLST 8356, BLST 4350, HIST 8086).

**Prerequisite(s):** Junior standing or permission of instructor

**HIST 4140 COLONIAL AMERICAN HISTORY (3 credits)**

This course provides a study of the settlement and development of North America to c. 1763 with an emphasis on the British colonies. (Cross-listed with HIST 8146).

**Prerequisite(s):** Junior standing or permission of instructor

**HIST 4150 THE AMERICAN REVOLUTIONARY ERA, 1763-89 (3 credits)**

This course examines the period of the American Revolution beginning with the changed circumstances in the British North American colonies following the end of the French and Indian War and concluding with the ratification of the United States Constitution. The course analyses social, political, and military themes from this period. (Cross-listed with HIST 8156).

**Prerequisite(s):** junior standing or permission of instructor.

**HIST 4160 THE EARLY AMERICAN REPUBLIC: FROM THE CONSTITUTION TO THE SECOND PARTY SYSTEM (3 credits)**

This course covers an important period of American history beginning with the first federal government and ending with an analysis of the consolidation of the Second American Party system. Topics to be covered include the earliest debates over the nature of the federal government, foreign relations, the emergence of political parties, and the rise of the Jacksonian democracy. (Cross-listed with HIST 8166).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4170 HISTORY OF THE AMERICAN WEST (3 credits)**

An examination of the unique aspects of the region of the United States known as "the west." Students will learn about the multiple peoples, cultures, and environments which combined to form this region. Content will also include an examination of how the myths of the west were created. (Cross-listed with HIST 8176).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4180 THE AMERICAN CIVIL WAR PERIOD: FROM THE TEXAS REVOLUTION THROUGH RECONSTRUCTION (3 credits)**

This course focuses on the period of the American Civil War. It will begin with the background to, and events of the Texas Revolution. It will then consider the growing national tensions over slavery, particularly as a consequence of the Mexican-American War before examining the immediate causes of the civil war. The course will then examine the war itself before concluding with analysis of Reconstruction. (Cross-listed with HIST 8186).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4240 EMERGENCE OF MODERN AMERICA (3 credits)**

This course examines American history from the end of Reconstruction to the end of World War II. Among the topics covered are western expansion, industrialization, immigration, and the expanding international footprint of the United States. (Cross-listed with HIST 8246).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4330 U.S. CONSTITUTIONAL HISTORY TO 1860 (3 credits)**

This course will examine the history of the United States constitution from its promulgation in 1787 through the end of the Civil War. This will include consideration of both English and colonial precedents. The course will analyze the process of writing and ratifying the document in the late 1780s and will then look at some of the key legal decisions between 1790 and 1860. (Cross-listed with HIST 8336).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4340 U.S. CONSTITUTIONAL HISTORY SINCE 1860 (3 credits)**

This course examine the increasingly important role played by competing interpretations of the United States constitution since the outbreak of he Civil War. This will include the emergence of the idea of a "living constitution," the extension of constitutional guarantees to the states, and examination of critical Supreme Court cases. (Cross-listed with HIST 8346).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4360 THE U.S. IN THE COLD WAR (3 credits)**

This course will examine the impact of the Cold War in modern American history on two levels. First it will seek to understand how the Cold War influenced American foreign policy decisions since the end of World War II and examine the long term consequences of those policies for both the U.S. and the world. Secondly, this course will examine how the Cold War impacted or shaped American culture, domestic politics, and social movements in the postwar period. (Cross-listed with HIST 8366).

**Prerequisite(s):** Junior standing or permission of the instructor

**HIST 4390 THE NATURE OF THE PAST: AMERICAN ENVIRONMENTAL HISTORY, PRE-HISTORY TO THE PRESENT (3 credits)**

This course will introduce students to the field of American Environmental History. Students will engage with literature produced by scholars who, broadly speaking, research and write about the many ways in which humans have shaped nature and, conversely, how nature has shaped humans over time. We will focus on the myriad peoples and cultures that have thrived in what is presently the United States and how these peoples have interacted with their physical environments in a multitude of contexts, from the transformation of ecosystems for economic purposes, to the cultural and scientific ideas that have shaped human notions of the natural world, to the ways in which people have mobilized governments to transform the environment. (Cross-listed with ENVN 4390, HIST 8196, SUST 4390).

**Prerequisite(s):** Undergraduate students must be at least juniors in standing.

**HIST 4400 HISTORY OF NATIVE AMERICAN INDIGENOUS PEOPLES (3 credits)**

This survey of North American Indigenous peoples provides a historical overview of the peoples and their interactions with settlers, wars, policies, and other events that have shaped modern Tribal and U.S. relations. (Cross-listed with HIST 8406, NAMS 4400).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4410 HISTORY OF NEBRASKA (3 credits)**

An examination of the history of Nebraska from Native American occupation to the present, with emphasis on environmental factors that have shaped the region and its people. (Cross-listed with HIST 8416).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4420 THE SIOUX TRIBE (3 credits)**

A cultural and historical study of the Sioux tribes emphasizing the earliest historic period to the present. (Cross-listed with HIST 8426).

**Prerequisite(s):** Junior standing or permission of instructor.

**HIST 4450 NATIVE AMERICAN ENVIRONMENTALISM (3 credits)**

This course studies North American tribal subsistence and natural resource use practices from the early historic period to the present, Native Americans as environmentalists, and modern tribal environmentalism. (Cross-listed with HIST 8456).

**Prerequisite(s):** Junior standing or permission of instructor.

**HIST 4460 AMERICAN IMMIGRATION HISTORY (3 credits)**

A study of American immigration from the colonial era to the present. Topics covered include Old World origins of migration, the old immigrants from western Europe, the new immigrants from southern and eastern Europe, non-European immigrants, native-born American responses to immigrants, the periods of immigrant adjustment in the new physical environment, and the contemporary revival of ethnicity. (Cross-listed with HIST 8466).

**Prerequisite(s):** Junior or permission of instructor.



**HIST 4480 THE UNITED STATES IN THE 1960S (3 credits)**

This course is a review of the economic, social, cultural, and political changes that marked the United States in the 1960s. (Cross-listed with HIST 8486).

**Prerequisite(s):** Junior standing or permission of the instructor.

**HIST 4530 EUROPE: RENAISSANCE & REFORMATION (3 credits)**

This course will examine European history from the fifteenth through the seventeenth centuries. Among the topics which will be covered are the Renaissance, the Protestant Reformation, the Catholic Reformation, Wars of Religion, the beginning of European overseas expansion, and the Scientific Revolution. In addition to examining the religious ideas and revolutions of the period, there will also be analysis of economic, social, and political change. (Cross-listed with HIST 8536).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4540 MEDIEVAL EUROPE (3 credits)**

A dive into the history of medieval Europe through the stories of men and women, their beliefs, struggles, contradictions and achievements. (Cross-listed with HIST 8546).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4550 BUILDING CATHEDRALS: FAITH, POWER, AND TECHNOLOGY IN THE MIDDLE AGES (3 credits)**

This course explores the construction of medieval cathedrals as monumental expressions of faith, power, and technological innovation. Through primary sources, historical analysis, and interactive role-playing, students will examine how these structures embodied the ambitions of bishops, kings, and merchants, shaped urban landscapes, and served as centers of religious life. Topics include the economic and social networks behind cathedral building, the role of relics and pilgrimage, and advancements in architectural technology. A key component of the course is a role-playing simulation in which students engage in a historical debate over the design of the dome for the Cathedral of Florence (1418). (Cross-listed with HIST 8556).

**Prerequisite(s):** Undergraduate students must have junior standing or above, or permission of instructor

**HIST 4610 TUDOR AND STUART ENGLAND (3 credits)**

English history from the end of the Wars of the Roses in 1485 to the death of Queen Anne in 1714. The course will examine the efforts of the Tudors and Stuarts to establish dynasties, the religious upheavals in the sixteenth and seventeenth centuries, changes in the role of Parliament, the Civil Wars, and the beginning of English overseas expansion. (Cross-listed with HIST 8616).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4720 THE HOLOCAUST (3 credits)**

An interdisciplinary approach in a seminar oriented format discussing various aspects of the most notorious genocide in modern times. The course will explore the history of anti-Semitism, the rise of Nazi Germany and the road to the 'final solution.' It will further explore psychological, sociological and intellectual aspects of the dark side of humanity. (Cross-listed with RELI 4160, RELI 8166, HIST 8726).

**Prerequisite(s):** Junior or instructor permission.

**HIST 4730 ISRAEL AND PALESTINE (3 credits)**

This course will outline the history of the conflict over Palestine/Israel, examine its present status, and explore its likely unfolding in the future. It seeks to provide a broad and concise understanding of the historical events which have shaped the relations between Israelis and Palestinians, as well as a keen awareness of the challenges and prospects related to their future. (Cross-listed with HIST 8736).

**Prerequisite(s):** Junior standing or permission of the instructor.

**HIST 4740 COMPARATIVE GENOCIDE (3 credits)**

This course explores genocide and its many forms throughout history. It begins by considering the varied elements and definitions of the term. Next it looks at what makes people kill before going on to examine many different genocides throughout history. Finally, the course addresses the prosecution and prevention of genocide. (Cross-listed with HIST 8746)

**Prerequisite(s):** Junior. Not open to non-degree graduate students.

**HIST 4800 U.S. AND THE MIDDLE EAST (3 credits)**

This course focuses on the evolution of US relations with and Foreign Policy vis-a-vis the Middle East over the last six decades. It seeks to illuminate the constant features in contrast to the changes in direction, examining the agendas of varying administrations as well as the treatment by the media of this region. It follows a chronological framework with particular emphasis on key thematic topics. While emphasizing the political dimensions of international relations, the class will also explore cultural and social aspects of the ties between the US and the peoples of the Middle East. (Cross-listed with HIST 8806).

**Prerequisite(s):** Junior or permission of instructor.

**HIST 4820 MESOPOTAMIA AND PRE-ISLAMIC PERSIA (3 credits)**

Examination of the Ancient Near East from the emergence of its earliest civilizations—Sumer, Akkad and Babylonia—through the Bronze and Iron Ages, concluding with Persia in the Common Era (CE) just before the rise of Islam. (Cross-listed with HIST 8826).

**Prerequisite(s):** Junior standing.

**HIST 4830 ANCIENT GREEK MYTH, RELIGION & MAGIC (3 credits)**

Students will examine the impact of ancient Greek myth and belief on actual religious practice: e.g., "lived" religion. Areas covered include formal civic sacrifice, wartime religion, family and personal devotions, mystery cults, oracles and seers, plus the popular pursuit of magic. (Cross-listed with HIST 8836, RELI 4830, RELI 8836).

**Prerequisite(s):** Junior standing

**HIST 4840 ALEXANDER THE GREAT AND THE MACEDONIAN ORIGIN (3 credits)**

Examination of the conquests of Alexander the Great, as well as controversies in Alexander studies. Includes discussion of both the Macedonian culture that produced him and the career of his father, Philip II. (Cross-listed with HIST 8846).

**Prerequisite(s):** Junior standing

**HIST 4850 ROME AND THE EARLY CHURCH (3 credits)**

Students will cover Roman-Christian-Jewish interactions from just before the birth of Jesus of Nazareth to c. 450 CE, with an emphasis on social and political history. We catalogue Christianity's transformation from its origins as a Jewish movement and an illegal "superstition" to the dominant religion of the Roman empire. (Cross-listed with HIST 8856, RELI 4850, RELI 8856).

**Prerequisite(s):** Junior standing.

**HIST 4900 INDEPENDENT STUDIES (1-3 credits)**

Project arranged individually with undergraduate students. May be repeated as long as the subject differs, to a maximum of six hours.

**Prerequisite(s):** Written permission of instructor.

**HIST 4910 TOPICS IN HISTORY (3 credits)**

This course introduces students to specialized subject matter not available in existing History courses. Course may be repeated as long as the topic is substantially different each time. Course may be cross-listed with other programs e.g. Native American Studies (NAMS), Women's and Gender Studies (WGST) when topics are appropriate. (Cross-listed with HIST 8916).

**Prerequisite(s):** Junior standing

**HIST 4920 INTERNSHIP IN HISTORICAL STUDIES (1-3 credits)**

The undergraduate student is supervised by a member of the faculty in a project involving part-time employment or service with a museum, historic site, historical society or other institution. Work hours, activities, reporting requirements, and responsibilities must be specified in written agreement between employer, student, and/or History Intern Program Coordinator. This course is normally taken for 3 hours. If a hosting institution cannot commit to a supervised workload which the departmental advisor believes to be equivalent to 3 hours, course may be taken for fewer hours. In such circumstances, students may repeat the course up to a total of 3 hours.

**Prerequisite(s):** Student must have completed or enrolled in at least 6 hours of upper-division history courses (3000-4000). Student must have approval of History Intern Program Coordinator before enrolling. Not open to non-degree graduate students.

**HIST 4990 SENIOR SEMINAR (3 credits)**

Capstone research course for history majors. Students will be required to produce an original research paper. Each section of this course will be offered with a specific subject or theme.

**Prerequisite(s):** HIST 2980 and permission of department chair or chair's designee. Not open to non-degree graduate students.

## Honors Program (HONR)

### Honors Program Undergraduate Courses

**HONR 1130 HONORS HUMANITIES (3 credits)**

This entry level Honors course will provide students with opportunities to explore humanities ideas and possibilities; each iteration of the course will be anchored in humanities but vary by instructor.

**Prerequisite(s):** Must be a member of the Honors Program. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

**HONR 1150 HONORS ARTS (3 credits)**

This entry level Honors course will provide students with opportunities to explore arts ideas and possibilities; each iteration of the course will be anchored in arts but vary by instructor.

**Prerequisite(s):** Must be a member of the Honors Program. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

**HONR 2120 HONORS IDENTITY (1 credit)**

Course designed to heighten students' self awareness in University and global contexts.

**Prerequisite(s):** Must be a current Honors Program student. Not open to non-degree graduate students.

**HONR 3000 HONORS SEMINAR (3 credits)**

The Honors Seminar is interdisciplinary and offered each semester under the auspices of one of the University's seven colleges. The content matter changes each semester and includes all disciplines from the fine arts through business.

**Prerequisite(s):** Member of the University Honors Program or permission of instructor. Not open to non-degree graduate students.

**HONR 3010 HONORS TUTORING (0 credits)**

Honors Tutoring is available to qualified Honors students in good standing in the program who wish to provide tutoring in a specific course or courses in order to serve the University community throughout the semester.

**Prerequisite(s):** Active status in the University Honors Program; A or better in and completion of the course for which tutoring will be provided; documentation from professor of student's ability to tutor in the nominated course. Not open to non-degree graduate students.

**HONR 3020 HONORS SEMINAR - HUMANITIES (3 credits)**

Honors seminar–Humanities is an interdisciplinary course for University Honors Program students. Drawing from multiple disciplines, it provides students insight into cross-disciplinary study of the humanities, centered around changing themes and/or concepts.

**Prerequisite(s):** University Honors Program Student status. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

**HONR 3030 HONORS SEMINAR - SOCIAL SCIENCES (3 credits)**

This course will focus on social science perspectives for the University Honors Program students drawing from multiple disciplines within the social sciences, it provides students with insight into cross-disciplinary study of the theories and methods of the social sciences organized around changing themes and/or concepts.

**Prerequisite(s):** University Honors Program Students only.

**Distribution:** Social Science General Education course

**HONR 3040 HONORS SEMINAR - NON-LAB SCIENCE (3 credits)**

Honors seminar–non-lab science is an interdisciplinary course for University Honors Program students. Drawing from multiple disciplines, it provides students insight into cross-disciplinary study of science, centered around changing themes and/or concepts.

**Prerequisite(s):** Students must be members of the University Honors Program to enroll. Not open to non-degree graduate students.

**Distribution:** Natural/Physical Sci General Education lecture and Natural/Physical Science General Education course

**HONR 3050 HONORS SEMINAR - ARTS (3 credits)**

Honors seminar–Arts is an interdisciplinary course for University Honors Program students. Drawing from multiple disciplines, it provides students insight into cross-disciplinary study of the arts, centered around changing themes and/or concepts.

**Prerequisite(s):** University Honors Program Student status. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

**HONR 3970 HONORS INTERNSHIP (3 credits)**

The Honors Internship is offered to juniors and seniors in the University Honors Program and combines theoretical knowledge with the practical through placement in community businesses and organizations.

**Prerequisite(s):** Junior or senior in the University Honors Program and permission of the University Honors Program.

**HONR 4980 SENIOR HONORS PROJECT/THESIS (3 credits)**

An independent research project supervised by University Faculty. The Senior Honors Project must be approved by the University Honors Program.

**Prerequisite(s):** Junior or senior in the University Honors Program. Permission number needed from Honors prior to enrollment.

## Horticulture (HORT)

### Horticulture Undergraduate Courses

**HORT 1300 INTRODUCTION TO HORTICULTURAL SCIENCES (3 credits)**

An introductory course in horticulture that offers a hands-on perspective to science. Students will discuss the scientific factors affecting the growth of vegetables, bedding plants, cut flowers, and woody plants in greenhouse, laboratory and landscape settings.

**Distribution:** Natural/Physical Sci General Education lecture

**HORT 1310 INTRODUCTION TO HORTICULTURAL SCIENCES LABORATORY (1 credit)**

A laboratory designed to enhance basic scientific method skills as applied to propagation of plants using a variety of techniques from seeding and grafting to cloning.

**Prerequisite(s):** HORT 1300, prior or concurrent. Lab fee \$25.

**Distribution:** Natural/Physical Sci General Education lab course

# Human Resource Management (HRM)

## Human Resource Management Undergraduate Courses

### HRM 4010 TOTAL REWARDS (3 credits)

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee compensation and benefits programs. Students will gain and utilize effective strategies for managing the single largest controllable expense for organizations; employee pay and benefits. The design of this course is most beneficial for students pursuing future careers in management and human resource professions. (Cross-listed with BSAD 8146, HRM 8146, MGMT 4010, MGMT 8146).

**Prerequisite(s):** MGMT 3490 with a C or better and HRM 4030/ MGMT 4030 with a C+ or better and a 2.5 GPA; or permission of instructor

### HRM 4030 HUMAN RESOURCE MANAGEMENT (3 credits)

This course is a comprehensive review of the field of human resource management and its relevance to employees, managers, and organization stakeholders for goal achievement. The design of this course is structured to educate future managers and leaders on the importance of utilizing effective HR methods that comply with federal laws and the critical role of HR professionals in achieving the organization's positive workplace culture, competitive advantage, and overall success. (Cross-listed with BSAD 8136, HRM 8136, MGMT 4030, MGMT 8136).

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA; or permission of instructor.

### HRM 4040 MANAGING BEHAVIOR IN ORGANIZATIONS (3 credits)

In this course students will learn the knowledge and skills necessary to effectively manage and lead others. The foundations of Organizational Behavior are explored through discussion, application, and analysis, to build connection to critical aspects of real-world scenarios. Students are equipped with the tools and resources to understand the decision-making process, on both the individual and organizational level, to shape behaviors of topics overlying attitudes, motivation, leadership, employee engagement, group dynamic, and company culture. (Cross-listed with MGMT 4040).

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA; or permission of instructor. Not open to non-degree graduate students.

### HRM 4110 STAFFING THE ORGANIZATION (3 credits)

This course is a comprehensive review of issues and techniques involved in the acquisition and management of a high quality and diverse workforce for optimal organizational effectiveness. Students pursuing future manager and human resource professions will benefit from practice utilizing effective strategies for recruiting, selecting, placing, and integrating new employees into an organization's workforce. (Cross-listed with BSAD 8166, HRM 8166, MGMT 4110, MGMT 8166).

**Prerequisite(s):** MGMT 3490 with a C or better and HRM 4030/ MGMT 4030 with a C+ or better and a 2.5 GPA; or permission of instructor. Students are encouraged to take HRM 4030 MGMT 4220 prior to taking this course.

### HRM 4120 TALENT DEVELOPMENT (3 credits)

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee training and development programs to optimize human capital effectiveness in modern organizations. The course is designed to enable future managers and human resource professionals to utilize effective strategies for assessing employee training needs and developing appropriate solutions to maximize talent utilization. (Cross-listed with BSAD 8156, MGMT 8156, MGMT 4120, HRM 8156).

**Prerequisite(s):** MGMT 3490 with a C or better and MGMT 4030 with a C+ or better and a 2.5 GPA; or permission of instructor.

### HRM 4220 EMPLOYMENT LAW (3 credits)

This course is a comprehensive review of the legal framework in human resource management practice. The course is designed to prepare future managers and human resource professionals for the myriad legal issues involved in the employer-employee relationship and what is required for effective compliance. (Spring) (Cross-listed with MGMT 4220).

**Prerequisite(s):** MGMT 3490 and MGMT 3510 or MGMT 4030 with a C (2.0) or better, and a 2.5 GPA; or permission of instructor.

### HRM 4520 HUMAN RESOURCES MANAGEMENT INTERNSHIP (1-3 credits)

Students can receive degree credit when engaging in part time employment with a business that is relevant to the human resources management discipline. Work assignments are a valuable opportunity to gain practical experience and insight into various aspects of HR managerial roles within the workforce. Duties within the part time role must relate to general HR management (i.e., staffing, training, employee relations) and provide students with an environment to apply their academic knowledge to a professional setting. Combining both academic and professional atmospheres, students gain interpersonal development of leadership and build understanding of HR managerial responsibilities within organizations. (Cross-listed with MGMT 4520).

**Prerequisite(s):** MGMT 4030 with a C+ or better, a 2.5 GPA, and junior level standing; and permission of instructor.

## Humanities (HUMN)

## Humanities Undergraduate Courses

### HUMN 1010 INTRODUCTION TO THE HUMANITIES (5 credits)

An attempt to see how art, music, literature and the history of ideas in Western culture contribute to the understanding of human existence. The first semester explores classical Greek, medieval and Renaissance views of the meaning of life.

### HUMN 1110 AMERICAN HUMANITIES (3 credits)

American Humanities explores the underpinnings of democracy in the United States and the imaginative arts created by American artists of all genres. This course is a celebration of the complexity of American cultural artifacts and all that they reveal about American history and life. The course texts, contents, and pedagogic styles may vary from instructor to instructor; all iterations will be intellectually and academically rigorous, exemplifying standards of excellence that Goodrich expects of all scholars.

**Prerequisite(s):** ENGL 1150 and HUMN 1200. Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

### HUMN 1200 AUTOBIOGRAPHICAL READING AND WRITING (3 credits)

This course helps students to write effectively by focusing on their own personal experience and by examining a variety of autobiographical writings. Students are exposed to multicultural perspectives throughout the course.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

# Information Systems & Quantitative Analysis (ISQA)

## Information Systems & Quantitative Analysis Undergraduate Courses

### ISQA 2010 SPECIAL TOPICS IN INFORMATION SYSTEMS AND QUANTITATIVE ANALYSIS (1 credit)

This course is designed to acquaint students with issues which are current to the field or harbingers or emerging trends in the information systems area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once.

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.

### ISQA 2020 SPECIAL TOPICS IN INFORMATION SYSTEMS AND QUANTITATIVE ANALYSIS (2 credits)

This course is designed to acquaint students with issues which are current to the field or harbingers or emerging trends in the information systems area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once.

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.

### ISQA 2030 SPECIAL TOPICS IN INFORMATION SYSTEMS AND QUANTITATIVE ANALYSIS (3 credits)

This course is designed to acquaint students with issues which are current to the field or harbingers or emerging trends in the information systems area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once.

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.

### ISQA 2610 R FOR DATA ANALYTICS (1 credit)

R is a core language and toolkit in data science due to its vast capabilities to facilitate various stages of data analytics activities, from loading and transforming data to building and evaluating different analytics models. The course will enable students to use R to work with and manipulate data, build and evaluate data analytics models, and create visualizations.

### ISQA 2620 EVALUATING AND CLEANING DATA (1 credit)

Evaluating and cleaning data sets for analysis is a core skill for professionals in data analytics and other technical fields. The course will enable students to assess the state of existing data sets, identify appropriate remediation strategies to prepare data for analysis, and perform common data cleaning procedures.

**Prerequisite(s):** ISQA 2610

### ISQA 3310 MANAGING THE DATABASE ENVIRONMENT (3 credits)

Introduction to business database design and management functions. The focus is on the use of current database management systems (DBMS) to support the data management function of an organization. Topics include data modeling, database design, SQL, data management and database administration. Hands-on experience in database design, creation, and use is provided.

**Prerequisite(s):** CIST 2100.

### ISQA 3330 FUNDAMENTALS OF DATABASE MANAGEMENT (1 credit)

Databases are at the core of modern application development. Their use extends to many other environments including scholarly, scientific information systems. The overall goal of this course is to provide an introduction to the use of database management systems for efficient storing, updating, retrieval and analysis of data.

### ISQA 3340 SQL FOR DATA ANALYTICS (1 credit)

Using the Structured Query Language (SQL) to access and manipulate data is a core competency in data management, data analytics, data science, and other data-intensive fields. Starting with an overview of the relational model of database systems, the course will enable students use SQL to create database tables, and store, retrieve, and manipulate data at both basic and advanced levels.

### ISQA 3400 INFORMATION TECHNOLOGY INFRASTRUCTURE (3 credits)

This course provides an introduction to IT infrastructure issues. It covers topics related to both computer and systems architecture and communication networks, with an overall focus on the services and capabilities that IT infrastructure solutions enable in an organizational context.

**Prerequisite(s):** CIST 2100

### ISQA 3420 MANAGING IN A DIGITAL WORLD (3 credits)

This course introduces the fundamentals of information systems/technology (IS/T) management. Students are introduced to the various roles, responsibilities, skills, and concepts essential to successful management of IS/T in the context of a dynamic environment of technology workforce diversity, a global economy, and concern for ethics and social responsibility in the development of systems.

**Prerequisite(s):** CIST 2100

**Distribution:** Global Diversity General Education course

### ISQA 3520 GRAPHICAL USER INTERFACE DESIGN (3 credits)

This course is an introduction to interaction design with a primary emphasis on designing usable and useful computer interfaces. Students will learn the principles of interface design grounded in a fundamental understanding of human cognitive processes. They will learn how end-users develop and use mental models of interaction and will apply this knowledge to the design of interfaces for real-world applications. A design project will challenge students to plan their own designs, to develop interfaces and to integrate them into a working application prototype, to test their application with real users, and to effectively communicate the overall results. (Cross-listed with ISQA 8525)

**Prerequisite(s):** CIST 1300

### ISQA 3900 WEB APPLICATION DEVELOPMENT (3 credits)

This course focuses on contemporary techniques and technologies in the design, development, and integration of web-enabled information systems. Topics include: Multi-tiered systems architecture; agile application development; object-oriented analysis and design; prototyping; testing, verification, and validation; lifecycle models; and component-based development. This is a rapidly moving, hands-on course that mirrors real-world development.

**Prerequisite(s):** CIST 1300 or CSCI 2850, CIST 1400, ISQA 3310 or CSCI 4850 (or concurrent enrollment)

### ISQA 3910 INTRODUCTION TO PROJECT MANAGEMENT (3 credits)

This course will cover the basics of project planning, scheduling and control. Earned value management techniques and project quality will be covered. Risk management will also be covered. The student will be introduced to the IEEE Standards for Project Management. The purpose of the course is to provide students with an introduction to the tools and techniques used to manage projects to achieve successful completion. The project management methods taught are suitable for a wide variety of project types such as software development or engineering projects (e.g. construction).

**Prerequisite(s):** CIST 2100; or equivalent.

### ISQA 4000 SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS (1-5 credits)

This course is designed to acquaint students with issues which are current to the field or harbingers or emerging trends in the information systems area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once. (Cross-listed with ISQA 8086)

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.



**ISQA 4010 BUSINESS INTELLIGENCE (3 credits)**

The course focuses on the various topics on knowledge management by utilizing both behavioral approaches and information technology tools. It includes data collection and analysis, intelligent agents, business concerns on data warehousing and data mining, customer relationship management. The course will also cover information overload, human expert systems vs. artificial intelligent systems and intelligent decision making.

**Prerequisite(s):** CIST 1400; CIST 2500

**ISQA 4100 INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION (3 credits)**

This course examines the frameworks and tools used to develop an organization's information system architecture. It provides the analytical skills and conceptual frameworks with which to make recommendations and decisions regarding the integration of information technology components into an information system architecture. (Cross-listed with ISQA 8106)

**Prerequisite(s):** CIST 2100 and ISQA 3310

**ISQA 4110 INFORMATION SYSTEMS ANALYSIS (3 credits)**

This course examines and applies the principles of information systems analysis, following a structured systems development methodology. It surveys project management, feasibility and analysis and systems requirement definition using modern systems analysis techniques and automated tools. Course utilizes a case approach where students initiate the analysis and logical design of a limited-scope information system.

**Prerequisite(s):** CIST 2100, ISQA 3910, and ISQA 3310; only ISQA 3310 can be taken concurrently.

**ISQA 4120 SYSTEM DESIGN AND IMPLEMENTATION (3 credits)**

This is the second course in a sequence in computer information systems analysis, design, and implementation. This course extends the basic foundations of systems development started in ISQA 4110 and examines the activities comprising the design, construction and implementation of information systems.

**Prerequisite(s):** ISQA 3310 and ISQA 4110

**ISQA 4130 INFORMATION TECHNOLOGY FOR DEVELOPMENT (3 credits)**

Information Technology for Development (ITD) is the implementation and evaluation of information technology infrastructures to stimulate economic, social and human development. In this service-learning course, students will learn and apply ITD concepts for developing and adding value through IT by working with small business entrepreneurs in Omaha or rural Nebraska. Students will evaluate micro-business technology needs, prepare business technology plans, provide training, and implement appropriate solutions, to the extent possible within a semester class. (Cross-listed with ISQA 8136)

**Prerequisite(s):** Though not required, the following courses or their equivalent would provide the necessary background : CIST 1100, CIST 1300, ISQA 3210, ISQA 3310, ISQA 3400. Not open to non-degree graduate students.

**ISQA 4150 ADVANCED STATISTICAL METHODS FOR IS&T (3 credits)**

This course emphasizes the application and interpretation of statistical methods including design of experiments, analysis of variance, multiple regression, and nonparametric procedures and the use of statistical computer packages. The intent is to develop quantitative abilities needed for quantitatively intensive jobs and for advanced study in management information systems, computer science and information technology. (Cross-listed with ISQA 8156)

**Prerequisite(s):** CIST 2500 or equivalent (at least one course in statistics)

**ISQA 4160 ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING (3 credits)**

Enterprise Resource Planning (ERP) consulting is designed to provide students foundational knowledge required to become a consultant working with enterprise systems. ERP systems are used by most organizations to manage and integrate the core functions of a business. Students will be exposed to a broad range of consulting skills that spans package selection to the implementation process. Students will work with a live instance of an ERP system focusing on the cross-functional integration of core business processes primarily in a manufacturing environment including finance, operations/supply chain, procurement, and fulfillment. The goal of the course is to provide students a foundation for careers in the area of ERP systems and consulting. (Cross-listed with ISQA 8166, SCMT 4160)

**ISQA 4170 DIGITAL SUPPLY CHAIN & LOGISTICS (3 credits)**

Global Supply Chains are being disrupted by digital transformation driven by emerging technologies such as IoT (internet of things) and AI/ML (Artificial Intelligence/Machine Learning). This course will take a closer look at global supply chains and logistics with an emphasis on the impact of digitalization. We will explore the typical global supply chain processes and how state-of-the-art and emerging technologies impact them. Thus, the class views global digital supply chains by integrating business and technological perspectives. The course will start with an overview of technologies relevant to digital supply chains. We will then discuss digitalization strategy and digital supply chains, fundamental GSCM (Global Supply Chain Management) processes and their potential for digitalization, and discussion of IT/software systems, IoT, AI/ML, Data Analytics/Visualization, and related facets that impact digital supply chains. The course will culminate with an integrated case study and/or research paper (graduate). (Cross-listed with ISQA 8176).

**Prerequisite(s):** It is preferable that students have taken an introductory supply chain class or have some experience in the transportation, logistics and supply chain management sector. Undergraduate students must have Junior standing.

**ISQA 4180 ELECTRONIC COMMERCE (3 credits)**

Critical examination of the issues, technologies, standards and business and social implications of electronic commerce in Cyberspace.

**Prerequisite(s):** ISQA 3400 or equivalent.

**ISQA 4190 PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY (3 credits)**

Business process reengineering issues are examined. Reengineering concepts and methods are introduced. Additional special project(s) are required. SAP will be introduced. (Cross-listed with ISQA 8196.)

**Prerequisite(s):** CIST 2500; prerequisite/co-requisite ISQA 4110.

**ISQA 4200 INFORMATION AND DATA QUALITY MANAGEMENT (3 credits)**

The course primarily focuses on developing an in-depth understanding of Data and Information Quality (DQ and IQ) concepts and issues. On completing this course students will be able to understand and use DQ and IQ Concepts in Information Systems projects, be able to recognize various patterns of Data and Design Deficiencies in Systems and be able to suggest appropriate DQ and IQ improvement plans in light of known deficiencies in systems. (Cross-listed with ISQA 8206)

**Prerequisite(s):** CIST 2500 and CIST 2100.

**ISQA 4300 DATABASE ADMINISTRATION (3 credits)**

This course is designed to give students an applied, practical introduction to database administration. Students will gain an understanding of the functioning of a database management system and its relationship to the computing environment in which it runs. They will learn the concepts, principles, and techniques necessary to carry out such functions as database object creation, storage management, capacity planning, performance tuning, backup and recovery, and security management. Each semester the course will focus on one commercial database management system (DBMS), such as Oracle. (Cross-listed with ISQA 8306)

**Prerequisite(s):** ISQA 3310 or CSCI 4850. Not open to non-degree graduate students.



**ISQA 4380 DISTRIBUTED TECHNOLOGIES AND SYSTEMS (3 credits)**

The course introduces students to concepts, issues and tools needed to develop distributed computing systems. Topics include distributed systems architecture, middleware, Internet-based systems development, security and performance. Hands-on systems development using current technologies is provided.

**Prerequisite(s):** ISQA 3310 or equivalent and knowledge of database design and SQL.

**ISQA 4500 SPECIAL PROBLEMS IN INFORMATION SYSTEMS AND QUANTITATIVE ANALYSIS (2-3 credits)**

Individual investigation of specific problems in information systems and quantitative analysis and related areas.

**Prerequisite(s):** Senior standing and permission of program chair.

**ISQA 4510 INFORMATION SYSTEMS INTERNSHIP (1-3 credits)**

The purpose of this course is to provide the students with an opportunity for practical application of their academic studies in the business world to help prepare them for their professional career and to provide a view of the challenges they will face.

**Prerequisite(s):** Junior/senior standing and permission of department.

**ISQA 4730 DECISION SUPPORT SYSTEMS (3 credits)**

This course examines a set of information systems which specifically support managerial decision makers: Decision Support Systems, Group Decision Support Systems, Executive Information Systems, Data Warehouses, Expert Systems, and Neural Networks. This course explores the development, implementation, and application of these systems, how these systems can be applied to current business problems, as well as how organizational issues impact the implementation and usage of these systems. (Cross-listed with ISQA 8736)

**Prerequisite(s):** CIST 2100 or equivalent.

**ISQA 4750 STORYTELLING AND PERSUASION WITH DATA FOR BUSINESS (3 credits)**

This course provides an in-depth study of how to build a compelling story using data for business professionals to make winning arguments, it provides an overview of a number of technologies and research disciplines that enabled the power of data visualization. In today's inter-connected world we all live in a world of "Big data". While most data are unstructured, large amounts of data contain structure and can be used by businesses to help their organizations make better and more efficient business decisions. Data visualization is critical to managing big data, and can essentially be defined as the science (analytical) and art (design) of manipulating and presenting data for expression and cognitive recognition. In other words, data visualization involves taking data and using it in a way that humans can clearly understand. It is forcing business to transform themselves into "visual" organizations, generating business intelligence and insights to seek competitive advantages.

**Prerequisite(s):** Junior standing or permission of instructor.

**ISQA 4880 SYSTEMS SIMULATION AND MODELING (3 credits)**

The course provides an introduction to the modeling and simulation with special emphasis on decision-theoretic models and rational decision-making. The ability to make good decisions is key to individuals and organizations and studying, understanding and improving decisions is vital to success. Students are given a background into systematic decision-making processes, and then are introduced to formal methods for decision modeling and analysis. Building on these foundational models, students learn how to perform process modeling and optimization. Finally, the course concludes with a look at psychological biases and traps that may affect decision-makers. (Cross-listed with ACMP 4880)

**Prerequisite(s):** CIST 1400 and CIST 2500 or equivalent

**ISQA 4890 DATA WAREHOUSING AND DATA MINING (3 credits)**

This course provides students with a theoretical foundation and practical methods for designing and constructing data warehouse and implementing data mining. After covering the essential concepts, issues, techniques to build an effective data warehouse, this course emphasizes the various techniques of data mining, such as association, classification, clustering and prediction for on-line analyses within the framework of data warehouse architectures. This course gives students an opportunity to undertake a real-life data analysis project. (Cross-listed with CSCI 4890).

**Prerequisite(s):** ISQA 3310 or CSCI 4850

**ISQA 4900 FULL STACK DEVELOPMENT (3 credits)**

Full stack development is the development of both client side and server side portions of web applications. Most organizations go beyond simply using HTML web pages with a small amount of JavaScript in applications and have moved to developing modern web applications with backend APIs and frontend JavaScript frameworks such as Vue.js. Students will learn how to build a backend application and REST APIs. Students will take that backend framework knowledge and learn to securely integrate these backend APIs with frontend JavaScript frameworks to build single page apps and hybrid mobile applications.

**Prerequisite(s):** CIST 1300 - Web Development or CSCI 2850 Programming on the Internet ISQA 3310 Managing the Database Environment or CSCI 4850 Database Management ISQA 3900 Web Application Development or equivalent

## Interdisciplinary Studies (INDS)

### Interdisciplinary Studies Undergraduate Courses

**INDS 1000 INTRODUCTION TO INTERDISCIPLINARY STUDIES (3 credits)**

This course introduces students to the differences between disciplinary and interdisciplinary approaches to learning and research, and how to create/critique interdisciplinary arguments, understand interdisciplinary processes, and assess the quality of their own work. Students gain the opportunity to engage in the study of thinking, reading, writing, and problem-solving through an interdisciplinary lens across the natural and physical sciences, social sciences, and humanities. This course fosters intellectual curiosity by examining personal, social, cultural, and scientific challenges, and asking students to consider interdisciplinary solutions. Open to all majors interested in learning how interdisciplinarity can both contextualize and enrich individual disciplines. For those majoring or considering majoring in Interdisciplinary Studies, this course will also offer the opportunity to craft an intentional plan of study by connecting with faculty and peers across various disciplines.

**Prerequisite(s):** Students majoring in Interdisciplinary Studies should take INDS 1000. Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**INDS 4950 INTERDISCIPLINARY STUDIES: CAPSTONE COURSE (3 credits)**

The course provides students with the opportunity to refine their practice of interdisciplinary thinking and its application to the real world; to demonstrate the knowledge and skills acquired thus far with the production of a senior project; to produce a rationale for their capstone project and specializations legible to potential employers.

**Prerequisite(s):** INDS 1000; a course satisfying the intensive writing requirement, and a research method course offered in their fields of study.

## International Studies (INST)

### International Studies Undergraduate Courses

#### **INST 2130 GLOBAL CHALLENGES (3 credits)**

An interdisciplinary, team-taught course which examines the seven global challenges - population, resources, technology, information, economies, conflict, governance - facing the world in the 21st century. The class introduces students to a range of interdependent factors and forces that influence international affairs.

**Distribution:** Global Diversity General Education course and Social Science General Education course

#### **INST 3010 PERSPECTIVES IN INTERNATIONAL STUDIES (1 credit)**

Topical and or general analysis of selected countries and regions offered in conjunction with possible study tours in those areas under investigation. Internships and/or study abroad experiences usually form the basis for the course. Can be repeated up to 12 hours. This course may be taken for honors credit.

**Prerequisite(s):** Permission of instructor.

#### **INST 3020 PERSPECTIVES IN INTERNATIONAL STUDIES (2 credits)**

Topical and or general analysis of selected countries and regions offered in conjunction with possible study tours in those areas under investigation. Internships and/or study abroad experiences usually form the basis for the course. Can be repeated up to 12 hours. This course may be taken for honors credit.

**Prerequisite(s):** Permission of instructor.

#### **INST 3030 PERSPECTIVES IN INTERNATIONAL STUDIES (3 credits)**

Topical and or general analysis of selected countries and regions offered in conjunction with possible study tours in those areas under investigation. Internships and/or study abroad experiences usually form the basis for the course. Can be repeated up to 12 hours. This course may be taken for honors credit.

**Prerequisite(s):** Permission of instructor.

#### **INST 4140 TOPICS IN INTERNATIONAL STUDIES (3 credits)**

This course examines a topic involving a wide range of international studies theories, methods, and fields to provide international studies majors a sense of how the elements of international studies fit together to form a coherent interdisciplinary. A student may take the course more than once as topics will change each semester.

**Prerequisite(s):** Junior or above or permission of the instructor

#### **INST 4950 LATIN AMERICAN STUDY ABROAD (3 credits)**

This course is designed as an international study abroad course that will introduce undergraduate and graduate students to the dynamism of socio-cultural, economic, and political changes taking place across Latin America. Note: International travel and special fees required. (Cross-listed with LLS 8956, LLS 4950)

**Prerequisite(s):** Senior standing or Junior standing with permission of the department. LLS 1000 or LLS 1010 or equivalent and departmental permission.

#### **INST 4990 SENIOR E-PORTFOLIO (0 credits)**

This E-Portfolio course is part of International Studies' Student Outcomes effort. It is designed to help monitor the success of the program through monitoring students' performance in the program. Graduating seniors must register for and complete INST 4990 - Senior E-Portfolio in the term in which they plan to graduate.

**Prerequisite(s):** Students must register for INST 4990 in the term in which they plan to graduate. Not open to non-degree graduate students.

## Italian (ITAL)

### Italian Undergraduate Courses

#### **ITAL 1110 ELEMENTARY ITALIAN I (3 credits)**

Elementary Italian I emphasizes the mastery of all language skills, i.e., speaking, listening, reading, and writing, and introduces cultural topics that inform the use of language in authentic contexts.

#### **ITAL 1120 ELEMENTARY ITALIAN II (3 credits)**

Elementary Italian II builds on the skills gained in ITAL 1110 and emphasizes the mastery of all language skills, i.e., speaking, listening, reading, and writing, and continues discussions on cultural topics that inform the use of language in authentic contexts.

**Prerequisite(s):** ITAL 1110; permission from the instructor

#### **ITAL 2100 CONVERSATIONAL ITALIAN (3 credits)**

Conversational Italian is designed for students seeking to develop basic knowledge of Italian with an emphasis on practical communication skills for everyday situations. Through a communicative approach to language learning, the course immerses students in the Italian language with the goal of developing linguistic skills informed by Italian social norms and culture.

## Japanese (JAPN)

### Japanese Undergraduate Courses

#### **JAPN 1020 LINGUISTIC DIVERSITY IN US MEDIA (3 credits)**

Delivered in English, this course introduces students to diversity in the US using language in context as points of departure. In this course, we analyze the intersection between language and ideological constructions (e.g., the objectification of Latino women, discrimination and stereotypes toward Asian peoples) and examine nodes of social meaning through visual and audio representations of language, as consumed in music, tv series, art (e.g., street art, installations) and social media. Departing from a US-centric and an assimilative approach, the course provides a historical and geographic lens through which these languages exist in the United States. (Cross-listed with WLL 1000, FREN 1010, GERM 1010, SPAN 1010).

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

#### **JAPN 1110 ELEMENTARY JAPANESE I (5 credits)**

Grammar review and oral practice, and introduction of hiragana, katakana and some kanji.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

#### **JAPN 1120 ELEMENTARY JAPANESE II (5 credits)**

Grammar review and oral practice, and introduction of kanji.

**Prerequisite(s):** JAPN 1110 with at least a C-

#### **JAPN 2110 INTERMEDIATE JAPANESE (3 credits)**

Grammar review and continued oral practice, and introduction of more kanji.

**Prerequisite(s):** JAPN 1120 with at least a C-

#### **JAPN 2120 INTERMEDIATE JAPANESE II (3 credits)**

Grammar review and continued oral practice, and introduction of more kanji.

**Prerequisite(s):** JAPN 2110 with at least a C-

#### **JAPN 3020 UNDERSTANDING JAPANESE CULTURE: PRESENT DAY (3 credits)**

This course offers an exploration of Japanese culture from multiple angles, including societal, artistic, and linguistic perspectives. Through an interdisciplinary approach, students will explore current trends, cultural phenomena, and the evolving dynamics shaping modern-day Japan.

**Prerequisite(s):** JAPN 2120 or permission by the World Languages and Literature department

**JAPN 3030 JAPANESE CONVERSATION (3 credits)**

This course focuses on practical communication skills in Japanese, aiming to enhance students' ability to converse effectively in everyday contexts. The course is communicative in nature, and features interactive activities that build fluency in spontaneous conversation.

**Prerequisite(s):** JAPN 2120 or placement/permission by the Department of World Languages and Literature.

# Journalism and Media Communication (JMC)

## Journalism and Media Communication Undergraduate Courses

**JMC 1050 FILM HISTORY AND APPRECIATION (3 credits)**

A journey through one of many different possible worlds of film. Students will learn about various dimensions of filmmaking—historical development, cinematography, editing, screenwriting, and so much more. Exposure to critical perspectives on the genre(s) under consideration. Includes regular viewing of excerpts and full-length films. (Cross-listed with THEA 1050).

**Distribution:** Humanities and Fine Arts General Education course

**JMC 1500 INTRODUCTION TO JOURNALISM AND MEDIA COMMUNICATION (3 credits)**

A survey of the history, organization and social significance of the mass media, including newspapers, radio, television, books, magazines, advertising, public relations and films.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**JMC 2000 NEWS LITERACY (3 credits)**

The digital age has made news and information sources more prevalent than ever before. This course will explore and determine the credibility of news and information and to recognize the standards of fact-based journalism to know what to trust, act on and share.

**Prerequisite(s):** Not open to non-degree graduate students.

**JMC 2100 MEDIA WRITING (3 credits)**

This class will teach students to gather information and write for all areas of mass communication, including print, broadcast, online media, public relations and advertising.

**Prerequisite(s):** ENGL 1150

**Distribution:** Writing in the Discipline Single Course

**JMC 2110 PHOTOGRAPHY (3 credits)**

This course provides instruction in photography's technical fundamentals and visual foundations. It covers camera operation, digital image processing, and professional photo presentation. It establishes a strong technical foundation while fostering a greater understanding of photography as a means to enhance the student's visual communication skill.

**JMC 2150 NEWS WRITING AND REPORTING (3 credits)**

The class addresses the theory and practice of writing and reporting for media audiences, with an emphasis on print and online media. Some of the assignments in the class will focus on covering public affairs and analyzing media coverage of public affairs.

**Prerequisite(s):** JMC 2100

**JMC 2200 MEDIA PRODUCTION PRINCIPLES (3 credits)**

This course offers a comprehensive foundation in media production, covering essential theories, technical competencies, and practical skills related to the operation of prevalent hardware and software used in audio and video production. Topics include digital video camera operation, an introduction to non-linear video and non-linear audio editing programs, and audio recording.

**Prerequisite(s):** JMC 2100 (co-req). Not open to non-degree graduate students.

**JMC 2320 VIDEO FIELD PRODUCTION (3 credits)**

The class provides in-depth, hands-on theory and practice of field production and editing principles and techniques. It expands from single-camera to multi-camera projects. The goal is for students to leave this course with a strong understanding of aesthetic shooting principles, audio and video equipment, and a solid working knowledge of field production and post-production practices.

**Prerequisite(s):** JMC 2100 (co-req) and JMC 2200, or instructor consent. Not open to non-degree graduate students.

**JMC 2370 ALL ABOUT AUDIO (3 credits)**

This course emphasizes the fundamentals of audio production and writing for radio and its online communication venues. On-air delivery, use of video and audio streaming, and broadcast industry issues are also covered.

**Prerequisite(s):** JMC 2200 (co-req).

**JMC 2500 SOCIAL MEDIA COMMUNICATION (3 credits)**

Social Media Communication (SMC) introduces and explains social media and social network sites, as these apply to journalism, advertising, public relations and digital marketing communication. Computer-mediated communication within social media cultivates critical thinking about opportunities and challenges, including engagement, privacy, trust and misinformation. Social influence happens within mediated interpersonal, entertainment and sports posts that present identity and cultivate online communities. Contemporary problems and issues are explored, such as justice, politics, romance and health.

**JMC 2620 PR AND ADVERTISING DESIGN (3 credits)**

This is a course concerned with the principles of print and electronic public relations and advertising design using applied digital methods and skills. Students will learn the principles of design in a variety of print and interactive formats relating to public relations and advertising. Concepts will be taught in a lecture setting, and skills will be demonstrated in a lab setting. An advertising and public relations design campaign will be completed.

**Prerequisite(s):** JMC 2100

**JMC 3030 MULTIMEDIA JOURNALISM (3 credits)**

This course is designed to give students the knowledge and skills needed to become multimedia professionals. Before each technology is introduced, students will learn the principles and goals involved in creating interesting, professional stories. This class is not about equipment operation or software but, rather, will focus on the ways journalists can use new technologies. However, it is important that students come to this class already familiarized with the basic tools of Internet publishing and multimedia journalism. Students will continue to develop news judgment and reporting abilities in this class. By the end of the semester, students are expected to develop a multimedia media package.

**Prerequisite(s):** JMC 2100 and JMC 2200

**JMC 3230 PRINCIPLES OF PUBLIC RELATIONS (3 credits)**

This course will focus primarily on techniques to garner and sustain public understanding, acceptance and support for an organization. This course will explain the merits of these techniques through theory and application, and will offer constant reminders of the relationship between theory and practice. Understanding theory can result in more efficient and effective use of techniques.

**Prerequisite(s):** JMC 2100

**JMC 3270 PUBLIC AFFAIRS REPORTING (3 credits)**

The class is designed to help students build and refine their researching, interviewing, reporting and writing skills through the coverage of a public affairs news beat for print, broadcast and online formats.

**Prerequisite(s):** JMC 2100

**JMC 3320 VIDEO STUDIO PRODUCTION (4 credits)**

The class introduces the student to the studio-production environment, equipment, and best practices. It applies multi-camera production concepts to a live switched environment. It provides reinforcement of editing principles by integrating pre-produced elements into a live production. The goal is for students to leave this course with a strong understanding of live-production principles, studio-production equipment, and a solid working knowledge of studio-production practices.

**Prerequisite(s):** JMC 2200 or instructor permission. Not open to non-degree graduate students.

**JMC 3340 MEDIA THEORY (3 credits)**

How do media work? How do we think they work? How can we study what effect media messages have on our lives? From movies to entertainment to news, and even video games, media contain overt and hidden impacts and convey a variety of messages. Understanding the theories of media communication will make you a better storyteller, and will help you shape your message for its best impact. Explore the theories that are dominant today, those we have discarded (and why), and how this all keeps evolving as new media continue to emerge.

**Prerequisite(s):** JMC 1500 and JMC 2100 or permission of instructor

**JMC 3350 COMMUNICATION RESEARCH (3 credits)**

Research is important to understand communication, messages, audiences, behaviors, and motivations. This course develops students' abilities to conduct communication research focusing on two overarching methodological approaches used by communication scholars and industry professionals - Quantitative and Qualitative. The topics include research design, data management, statistical analysis, and report writing.

**Prerequisite(s):** JMC 1500 and JMC 2100 or permission of instructor. Not open to non-degree graduate students.

**JMC 3370 PODCAST THIS (3 credits)**

A survey of trends in audio storytelling including the use of Adobe software and studio engineering equipment. Students will learn various aspects of podcasting from inception to digital distribution. They will also critically engage in analyzing storytellers as well as researching, writing, voicing, and producing their own podcasts.

**Prerequisite(s):** JMC 2370 or permission of instructor

**JMC 3400 FEATURE AND OPINION WRITING (3 credits)**

Students will learn the genre of feature and opinion writing including editorials, columns, and reviews. They will enhance their research, writing, and organizational skills necessary for feature story, long-form and magazine writing. They will also enhance their interviewing techniques and develop, write, and market articles.

**Prerequisite(s):** JMC 2100

**JMC 3510 CULTURAL COMMUNICATION IN AFRICAN-AMERICAN CINEMA (3 credits)**

This course examines ways in which cultural identity is communicated through African-American cinema, defined as movies with predominantly African American filmmakers, producers, and/or actors. Cultural communication is integrated with historical, political, and social motivation for African-American cinema. (Cross-listed with BLST 3510)

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**JMC 3620 PRINCIPLES OF CREATIVE ADVERTISING (3 credits)**

This is a broad examination of advertising principles in all media, including the psychology of advertising; the creative, production and marketing aspects; and practical exercises in print, broadcast and social media. The course is organized in a way to take students through the process of creating relevant solutions to solve client advertising problems/opportunities.

**Prerequisite(s):** JMC 2100

**JMC 3700 VISUAL COMMUNICATION AND CULTURE (3 credits)**

This course will introduce students to 'the visual,' both in production and critique. This course provides students the opportunity to further their own understanding of what "visual culture" is and how they both can critically create and consume the various products of that culture. In addition, this course will help students create, develop, and cultivate the knowledge base they will need to successfully complete the Visual Communication and Culture minor.

**Prerequisite(s):** JMC 3340 (co-req) and JMC 3350 (co-req) or permission by instructor

**Distribution:** Humanities and Fine Arts General Education course

**JMC 3710 DESIGN IN MOTION (3 credits)**

This course introduces the fundamental aspects of content creation for television, social media, and web video creation. Focused on the principles of typography, design, and animation, students will have a working knowledge of how to plan, develop, and load content into television graphics software that can be distributed across multiple media platforms. Content may include how to create the following with motion: full screen, lower third, ticker, bug, slab, opening titles, transitions, and statistical graphics.

**Prerequisite(s):** JMC 2200

**JMC 3920 MEDIA & CULTURE (3 credits)**

An advanced seminar on the study of media through deconstruction of mass communication content, meaning construction, framing analyses and critical/cultural approaches. (Cross-listed with COMM 8925).

**JMC 4010 MEDIA HISTORY (3 credits)**

This class covers development of the U.S. media from 1690 to present day, including newspapers, magazines, radio, television, the new media of the Internet, advertising and public relations. A special emphasis is placed on freedom of the press.

**Prerequisite(s):** JMC 3340 (co-req), JMC 3350 (co-req), or instructor permission

**JMC 4040 SOCIAL MEDIA MEASUREMENT AND MANAGEMENT (3 credits)**

Social Media Measurement and Management explores the dynamic development of social media platforms within a journalism and media communication context. Students of journalism, broadcasting, public relations, advertising and marketing will examine theories and best practices of social media interaction and engagement. (Cross-listed with COMM 8046)

**Prerequisite(s):** JMC 3340 (co-req) and JMC 3350 (co-req) or instructor permission

**JMC 4250 STRATEGIC WRITING FOR PUBLIC RELATIONS AND ADVERTISING (3 credits)**

This is an advanced skills course that combines theory and practical application in writing for public relations and advertising. Students will plan and execute strategy and tactics to craft and deliver a persuasive message to a variety of audiences.

**Prerequisite(s):** JMC 3230. Not open to non-degree graduate students.

**JMC 4260 MEDIA RELATIONS (3 credits)**

This course focuses on the communication tools used in media relations, the nuances of working with reporters from press and various media, news writing, news judgment, strategic planning, and the application of communication theories in understanding the relationship between news organizations and media relations representatives for organizations and corporations.

**JMC 4300 RISK AND CRISIS COMMUNICATION (3 credits)**

Risk/Crisis Communication, both as a discipline and a practice, has been discussed and enacted as long as there has been information to communicate because of an extraordinary event. Governments, businesses, universities, even individuals - all of engaged in one form of risk or crisis communication or another. Whether successful in its intentions or not, the act is there. This class is a theoretically-driven course to inform our practices as both creators of messages and critics of those same messages. (Cross-listed with CMST 4300).



**JMC 4310 MEDIA & POLITICS (3 credits)**

An in-depth study of the impact of the media on political communication. This course will explore the symbiotic relationship of media and political communication, including the influence of traditional mass media, digital media, and social media on the political communication process. Students will delve into media theories and critically examine the influence of the media on the political communication process. (Cross-listed with COMM 8316).

**JMC 4320 TELEVISION COMMERCIAL PRODUCTION (3 credits)**

Acquire the knowledge and skill to work with a client in creating commercial television messages designed to motivate viewers. The course will teach students how to plan, storyboard, write, record and edit the elements into a deliverable product to the client's satisfaction.

**Prerequisite(s):** JMC 2200 or instructor permission

**JMC 4340 SPORTS BROADCASTING AND PRODUCTION (3 credits)**

Students will learn to distinguish the differences between sports production and sports performance. Students will also learn to broadcast a variety of sports using multiple platforms. Accuracy and immediacy are vital skills that students will be expected to develop. Students will learn and understand the importance and process of preparing for play-by-play and color commentary.

**Prerequisite(s):** JMC 2200 or permission of instructor. Not open to non-degree graduate students.

**JMC 4370 SPECIAL TOPICS IN JOURNALISM & MEDIA COMMUNICATION (3 credits)**

A variable topic course in journalism and media communication at the junior level. Topics to be covered may include but are not limited to: social media communication, news media, journalism, health communication, global media, sports media, audio and video, advertising and public relations, political communication, and film. May be repeated for credit as long as the topic is different.

**Prerequisite(s):** Junior standing or instructor permission.

**JMC 4380 FILM THEORY AND CRITICISM (3 credits)**

A broad study of film critique methods, analysis, and interrogation based on current and traditional theoretical approaches to criticism (e.g., semiotic analysis, Postmodernism, genre, auteur theory, apparatus, feminist approaches, discourse analysis). Specific films (both classical and contemporary) may be examined as a form of socio-cultural inquiry.

**Prerequisite(s):** JMC 3340 (co-requisite) or instructor permission.

**JMC 4390 MEDIA ENTREPRENEURSHIP (3 credits)**

Media Entrepreneurship explores new and emerging media business models from local, national and global perspectives. Students learn about and work within the start-up economy and entrepreneurial approaches. The course offers professional and critical perspectives. (Cross-listed with COMM 8396, ENTR 4390).

**Prerequisite(s):** junior standing or permission of instructor

**JMC 4400 MEDIA ETHICS (3 credits)**

The course examines ethical standards and practices of the media - print, electronic and online media, as well as advertising, public relations and entertainment media. It includes development of ethical decision-making skills.

**Prerequisite(s):** JMC 3340 (co-req); JMC 3350 (co-req)

**JMC 4410 COMMUNICATION LAW AND POLICY (3 credits)**

Communication practitioners need to understand legal protections and constraints. This course explores legal concepts, frameworks and principles to understand constitutional, statutory, regulatory and case law and policies. The student must have a basic understanding of government, social studies and human rights principles. The First Amendment and international law provide a framework for exploring current cases and issues.

**Prerequisite(s):** Junior standing or permission of instructor

**JMC 4420 SPORTS WRITING (3 credits)**

Students will learn aspects of the specialized field of sports media communication. Areas will include writing, interviewing, storytelling, multiple media platforms, and the ethics of sports reporting. Writing experiences across the media spectrum, from traditional media to the new forms of online journalism, will be practiced.

**Prerequisite(s):** JMC 2100 or permission of instructor. Not open to non-degree graduate students.

**JMC 4430 GLOBAL MEDIA COMMUNICATION (3 credits)**

In-depth study of global media communication systems. This course will examine cultural influence of dominant global media, the changing global media climates, information flow, regulation and censorship of media worldwide. Students will look at the various aspects of mass communication including advertising, public relations, broadcasting, movies and social media. There will be an emphasis on global communication theories and on critical examinations of media systems.

**Prerequisite(s):** JMC 3340 (co-req) or CMST 2100; or instructor permission

**JMC 4440 MEDIA CONTENT CREATION (4 credits)**

This course is a culmination of skills students acquired in the Emerging Media concentration and prepares them for the Capstone experience and careers in the media industry. In this class, students will produce substantive and original reporting projects on a timely issue showcasing their talents as a prospective journalist and/or media professional. A field component to this course requires time outside of class. Students' work will be publicly available on television, cable, and the internet. This class contributes to a digital portfolio allowing students to showcase their work.

**Prerequisite(s):** JMC 2370, JMC 3030 (co-req), JMC 3320

**JMC 4450 PR AND ADVERTISING CAPSTONE (3 credits)**

This advanced course provides students with professional development opportunities to hone their Public Relations and Advertising skills. Students will apply their knowledge to serve a university or community client by assessing their needs and developing an integrated marketing communication campaign. The final project will contribute to students' portfolios used for the job market.

**Prerequisite(s):** JMC 3340, JMC 3350 and JMC 4250 (co-req), and Senior standing or permission of instructor. Not open to non-degree graduate students.

**JMC 4460 EMERGING MEDIA CAPSTONE (4 credits)**

This advanced course provides students with professional development opportunities to polish their skills. Students will continue to create content for the School of Communication's media outlets and will assume mentoring and leadership roles under the supervision of instructors of the capstone classes.

**Prerequisite(s):** JMC 4440 (may not be taken as a co-requisite); Senior standing. Not open to non-degree graduate students.

**JMC 4810 DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS (3 credits)**

This course addresses emerging issues in digital literacies such as the rhetoric of technology, technological competency, technology and information ecologies, critical awareness of technology and human interactions, judicious application of technological knowledge, user-centered design, networking and online communities, ethics and technology, and culture and technology. (Cross-listed with JMC 8816).

**Prerequisite(s):** ENGL 1160 and CMST 1110 or permission of instructor.

**JMC 4830 TECHNICAL COMMUNICATION (3 credits)**

Technical Communication introduces students to the field of technical communication. Students will study the development of print and electronic genres common to industry settings, the design and production of technical documents, the writing processes and work practices of professional technical communicators, and the roles of technical communicators in organizational contexts. (Cross-listed with ENGL 4830, ENGL 8836, JMC 8836).

**Prerequisite(s):** ENGL 1160 and CMST 1110 and minimum overall GPA of 2.25



**JMC 4850 INFORMATION DESIGN FOR TECHNICAL COMMUNICATORS (3 credits)**

This course introduces students to strategies for integrating visual and textual elements of technical documents. Instruction will focus on design theory and application through individual and collaborative projects. Students will develop the professional judgment necessary for making and implementing stylistic choices appropriate for communicating technical information to a lay audience. (Cross-listed with JMC 8856).

**Prerequisite(s):** JMC 4810 or JMC 4830 or permission of instructor

**JMC 4870 TECHNICAL EDITING (3 credits)**

This course introduces students to the roles and responsibilities of technical editors: the editorial decision-making processes for genre, design, style, and production of technical information; the communication with technical experts, writers, and publishers; the collaborative processes of technical editing; and the techniques technical editors use during comprehensive, developmental, copyediting, and proofreading stages. (Cross-listed with JMC 8876).

**Prerequisite(s):** ENGL 1160 or permission of the instructor

**JMC 4890 CAPSTONE COURSE IN TECHNICAL COMMUNICATION (3 credits)**

In this capstone course, students will extend foundational skills learned in previous technical communication courses. Students will demonstrate their competency in the technical documentation process in organizational environments, the issues important to the technical communication profession, and the practices of writing and creating complex technical documents for specific purpose and audience. (Cross-listed with JMC 8896).

**Prerequisite(s):** JMC 4810, JMC 4830, JMC 4870, JMC 4850 or permission of instructor

**JMC 4970 INTERNSHIP EXPERIENCE (1-3 credits)**

This course will provide students professional communication-related experience in an internship approved and supervised by the School of Communication. 3 credits = 150 hours at site. 2 credits = 100 hours at site. 1 credit = 50 hours at site. No retroactive internship credit permitted. Additional coursework completed online will develop career competencies including resume, cover letter, portfolio, and interviewing skills.

**Prerequisite(s):** Sophomore standing; instructor permission; and minimum cumulative GPA of 2.25.

**JMC 4980 INDEPENDENT STUDY IN COMMUNICATION (3 credits)**

Specialized studies in communication supplementing regular courses: readings; research; tutorial.

**Prerequisite(s):** JMC 3340, JMC 3350, permission of department, and minimum GPA of 2.25

## Kinesiology (KINS)

### Kinesiology Undergraduate Courses

**KINS 1010 INTRODUCTION TO SPORTS MEDICINE (1 credit)**

The primary purpose of this course is to allow students to explore a variety of professions related to the field of sports medicine and how they work together to ensure safe participation in physical activity. Topics such as basic injury pathology, safe participation in sports, communication, and legal and ethical issues will be reviewed.

**KINS 1500 FUNDAMENTALS OF GROUP EXERCISE (1 credit)**

This course is designed to provide students with the knowledge and skills to perform fundamental exercises associated with a variety of group exercise formats (e.g. bootcamp, kickboxing, yoga, indoor cycling, step, etc.). Students will also learn proper technique, transitions, progressions/regressions, modification, and sequencing to create a safe and inclusive class environment.

**Prerequisite(s):** Kinesiology majors, Pre-AT, Exploratory H&K, or PE Teaching majors

**KINS 1600 FUNDAMENTALS OF RESISTANCE TRAINING (1 credit)**

This class is designed to provide each student with the knowledge needed to understand how to properly perform basic weight training movements for each muscle group. Students will understand and learn the importance of keeping good body positioning, technique, spotting, breathing and safety procedures with free weights and machine weights as well learning to developing basic weight-training programs and understanding basic training principles.

**Prerequisite(s):** Kinesiology majors, Pre-AT, Exploratory H&K, or PE Teaching majors. Not open to non-degree graduate students.

**KINS 1800 FITNESS FOR LIVING (3 credits)**

This course is aimed at exploring the values of physical activity, assessing fitness needs and prescribing appropriate activities. The course will be taught as a lecture lab.

**KINS 2130 LIFEGUARDING (3 credits)**

This course is designed to prepare candidates in assuming the duties and responsibilities of a lifeguard. The main focus will be accident prevention in and around the water. Also stressed will be the recognition of a person in distress and a drowning victim. The development of an emergency plan and the articulation with the emergency rescue service will also be key elements in this course.

**KINS 2140 WATER SAFETY INSTRUCTORS COURSE (3 credits)**

This is a course in water safety instruction. The purpose of this course is to teach those enrolled how to teach the various swimming skills. This would include teaching beginning swimming through emergency water safety. Candidates who satisfactorily complete the course will be issued a Water Safety Instructor Certificate.

**Prerequisite(s):** Seventeen years of age and possession of current Advanced Lifesaving or Emergency Water Safety Certificate

**KINS 2210 GROUP EXERCISE LEADERSHIP (2 credits)**

This course is designed to provide students with competencies in the theory, concepts, and skills related to group exercise instruction and leadership. Students will explore both the dynamics of group participation and instructions across various modalities including; step, hi-low aerobics, cardio kickboxing, water aerobics, dance fitness, sports conditioning, indoor cycling, yoga, Pilates, and barre.

**Prerequisite(s):** PE 1800 or KINS 1800 with a grade of C- or better, School of H&K majors, Secondary Education majors with endorsements in Health/PE 7-12, and PE Pk-6th and 7-12

**KINS 2220 THEORY AND PRACTICE OF TEACHING RESISTANCE TRAINING (2 credits)**

This course is designed for the college student majoring in Exercise Science, Physical Education and related degrees to develop leadership skills necessary to teach safe and effective resistance training programs.

**Prerequisite(s):** PE 1800 or KINS 1800 with a grade of C- or better, School of H&K majors, Secondary Education majors with endorsements in Health/PE 7-12, and PE Pk-6th and 7-12

**KINS 2310 TEACHING GAMES 1 (3 credits)**

The purpose of this course is to help preservice physical education teachers facilitate enhanced performance, analysis, and tactical understanding of invasion games and field run/score games (e.g. basketball, soccer, team handball, football, speedball, ultimate Frisbee, hockey, softball, cricket, and modified kickball).

**Prerequisite(s):** Not open to non-degree graduate students.

**KINS 2320 TEACHING GAMES 2 (3 credits)**

The purpose of this course is to help preservice physical education teachers facilitate enhanced performance, analysis, and tactical understanding of net/wall games and lifetime activities (e.g. volleyball, badminton, tennis, racquetball, golf, archery, pickleball, table tennis).

**Prerequisite(s):** Not open to non-degree graduate students.

**KINS 2330 OUTDOOR/ADVENTURE ACTIVITIES (3 credits)**

The course will address the basic requirements for living comfortably and traveling in wilderness areas. Basic orienteering skills, team building activities, identifying and minimizing risks associated with outdoor pursuits, and environmental safety issues will be included.

**Prerequisite(s):** SED or ELED major, HED 3030 or PHHB 3030. Not open to non-degree graduate students.

**KINS 2430 FOUNDATIONS IN KINESIOLOGY (3 credits)**

This is an introductory course in kinesiology that includes an orientation to the profession and a consideration of current trends, problems and issues and their implications for the field of kinesiology. The course also examines the relationship of kinesiology to other cultures, general education, and global perspective.

**Distribution:** Social Science General Education course

**KINS 2700 FUNDAMENTALS OF ATHLETIC TRAINING (3 credits)**

An introduction to the field of athletic training as well as injury prevention and basic athletic training skills in wound care, taping/bracing, evaluation, and treatment.

**Prerequisite(s):** PE 1010 or KINS 1010, BMCH 2400, BMCH 2500 and admission into the Athletic Training Program. Not open to non-degree graduate students.

**KINS 2800 MOTOR LEARNING (3 credits)**

This course is the study of motor development, and the conditions and factors that influence the normal development and the learning of motor skills. Emphasis is placed upon normal developmental patterns and behaviors and learning principles throughout the life-span as it relates to a diverse American culture.

**Prerequisite(s):** PE 2430/KINS 2430 with a grade of C- or better, or ATHT majors, or permission of instructor

**KINS 3000 SPECIAL PROJECTS (1-3 credits)**

Conducted as short course, seminar, workshop or special project.

**Prerequisite(s):** The prerequisite for the special project will be determined by the instructor.

**KINS 3010 SCIENTIFIC PRINCIPLES OF COACHING (3 credits)**

Designed for coaches and potential coaches who are not physical education majors. Covers basic information to include kinesiology, physiology of exercise and behavioral aspects of coaching.

**Prerequisite(s):** For non physical education majors.

**KINS 3040 PREVENTION AND CARE OF ATHLETIC INJURIES (3 credits)**

This course covers selected topics related to the prevention and care of athletic related injuries. Emphasis will be placed on injury prevention through proper training, conditioning, nutrition and hydration strategies. Basic evaluation and treatment of athletic related injuries and legal aspects will also be covered.

**Prerequisite(s):** PE3010/KINS 3010, or BMCH 2400 or BIOL 2740, and HED3030/PHHB 3030 or current CPR certification and First Aid certification or departmental permission.

**KINS 3060 METHODS OF PRESCHOOL AND PRIMARY SCHOOL PHYSICAL EDUCATION (3 credits)**

The study of current methodology in developmentally appropriate preschool and primary school physical education. Candidates will use the assessment, planning, implementation and evaluation model in developing physical education programs for this age group.

**Prerequisite(s):** KINS 2800, EDUC 2510 or EDUC 2520 or TED 2400, 2.75 NU GPA

**KINS 3110 INTRODUCTION TO DANCE (3 credits)**

This course provides an introduction to dance as a performing art focusing on the choreographer, the dancer, the audience, the different dance genres and dance as a means of communication and expression.

**KINS 3120 DANCE SOMATICS: AN INTEGRATED APPROACH TO UNDERSTANDING THE BODY IN MOTION (3 credits)**

This course explores the body in motion through the lenses of various dance and movement theories, as well as self-reflection. Students will learn to move in an embodied way and understand the physiological, developmental, and psychological foundation of movement for dance.

**Prerequisite(s):** Not open to non-degree graduate students.

**KINS 3130 CHOREOGRAPHY 1: INTRODUCTION TO CHOREOGRAPHIC TOOLS, ARTISTIC AESTHETICS, & PERFORMANCE ELEMENTS (3 credits)**

This course explores the act of choreography as a medium for artist expression through improvisation, choreographic constructs, and content themes. Students will learn how to build ideas into choreographic dances through experimentation, structured frameworks, and feedback. Students will also present their work in a small performance at the conclusion of the semester.

**Prerequisite(s):** Not open to non-degree graduate students.

**KINS 3140 SPORTS OFFICIATING (3 credits)**

The general principles, basic guidelines, philosophy, mechanics and rules of officiating several team and individual sports will be covered.

**KINS 3300 TEACHING DANCE IN THE SCHOOLS (3 credits)**

The course is designed for physical education pedagogy majors, elementary teachers, and recreation leaders who are interested in obtaining the fundamentals of a variety of rhythmic and creative dance activities and their teaching methods for preschool through twelfth grade.

**Prerequisite(s):** EDUC 2010 or TED 2300 or TED 2380 or permission of instructor

**KINS 3350 TEACHING & CURRICULUM DEVELOPMENT IN ELEMENTARY PHYSICAL EDUCATION (3 credits)**

The study of teaching methodology and curriculum development in the elementary schools. Particular attention will be given to meeting the motor needs and interests of children aged 9-12. Assessing children's motor performance, prescribing activities, and evaluating the program effectiveness will be addressed.

**Prerequisite(s):** KINS 3060, KINS 3300, KINS 2310, TED 2400, 2.75 NU GPA

**KINS 3480 ORGANIZATION AND ADMINISTRATION OF ATHLETICS (3 credits)**

A study of the organization and administration of athletics in the secondary schools.

**Prerequisite(s):** Sophomore

**KINS 3710 SWIMMING COACHING THEORY AND PRACTICE (3 credits)**

This course is designed to develop the competencies essential to the successful coaching of swimming at all levels. The focus is on theory, swimming techniques, rules, safety, and coaching methods of competitive swimming.

**KINS 3720 SOCCER COACHING THEORY & PRACTICE (3 credits)**

A course of study designed to develop the competencies essential to the successful coaching of soccer. The focus is on conditioning training activities, coaching techniques, competition strategies, equipment selection, and modern coaching theories specific to the sport of soccer.

**KINS 3730 SOFTBALL COACHING THEORY AND PRACTICE (3 credits)**

A course of study designed to develop the competencies essential to the successful coaching of fast pitch softball. The course will encompass the philosophy of coaching, coaching techniques, conditions/training activities and the analysis and correction of skills.

**KINS 3740 VOLLEYBALL COACHING THEORY AND PRACTICE (3 credits)**

A course of study designed to develop the competencies essential to the successful coaching of volleyball. The focus is on conditioning training activities, coaching techniques, competition strategies, equipment selection and modern coaching theories.

**KINS 3750 WRESTLING COACHING THEORY AND PRACTICE (3 credits)**

A course of study designed to develop the competencies essential to the successful coaching of wrestling. The focus is on conditioning/training activities, coaching techniques, competition strategies, equipment selection and modern coaching theories specific to the sport of wrestling.

**KINS 3760 BASEBALL COACHING THEORY AND PRACTICE (3 credits)**

A course of study designed to develop knowledge in all phases of the game. Special focus is on fundamentals, drills, managing and psychology of coaching.

**KINS 3770 FOOTBALL COACHING THEORY AND PRACTICE (3 credits)**

A course of study designed to develop the competencies essential to the successful coaching of football on all levels. The focus is on theory, history and origin, conditioning, safety techniques, coaching techniques, strategy, equipment selection and modern coaching theories.

**KINS 3780 TRACK AND FIELD COACHING THEORY AND PRACTICE (3 credits)**

A course of study designed to develop the competencies essential to the successful coaching of track and field. The focus is on conditioning training activities, coaching techniques, competition strategies, equipment selection and modern coaching theories specific to the sport of track and field.

**KINS 3790 BASKETBALL COACHING THEORY AND PRACTICE (3 credits)**

A course of study designed to develop the competencies essential to the successful coaching of basketball. The focus is on conditioning training activities, coaching techniques, competition strategies, equipment selection and modern coaching theories specific to the sport of basketball.

**KINS 3800 HOCKEY COACHING THEORY (3 credits)**

An introductory course in the developing the desirable attributes of hockey players, rules of the game, fundamental skills and systems of ice hockey as well as the study of key principles in successful players. Basic offensive and defensive strategies will be discussed. Also discussed will be the evolution of the sport and its equipment.

**KINS 3900 MOTIVATION FOR PHYSICAL ACTIVITY (3 credits)**

The central purpose of this course is to examine the psychological basis of exercise and physical activity. The majority of the course will focus on traditional theories principles of psychology as they relate to exercise. Emphasis is placed on understanding the motives underlying involvement in exercise and physical activity and the psychological benefits derived from acute and chronic involvement in an exercise program. Throughout the course, consideration will be given to theoretical models, research findings, and practical application of the concepts to a variety of performance settings.

**Prerequisite(s):** PSYC 1010 with a grade of C- or better.

**KINS 4000 TEACHING & CURRICULUM DEVELOPMENT IN SECONDARY PHYSICAL EDUCATION (3 credits)**

This course is designed to develop candidates' competencies in physical education instructional methodology and curriculum development. Analysis of teacher behavior and selection of content and materials will be examined. Candidates will be introduced to and will implement various methods of teaching physical education at the secondary level so as to develop the skills to become an effective teacher.

**Prerequisite(s):** KINS 2310, KINS 2320, KINS 2330, KINS 3300, TED 2400, 2.75 NU GPA

**KINS 4010 LABORATORY METHODS IN EXERCISE SCIENCE (6 credits)**

This course will provide students an opportunity to achieve competency in operating various pieces of equipment typically used in biomechanics and exercise physiology laboratories. The students will gain experience in interpreting the results of the tests administered, and writing exercise prescriptions based upon those results. Students must have current CPR certification.

**Prerequisite(s):** BMCH 2500 or BIOL 2840, BMCH 4630, PE 4940 or KINS 4940, CPR certification, department consent; must be School of H&K major or ATH major. Students cannot complete KINS 4010 and KINS 4800 in the same term.

**KINS 4050 EXERCISE AND SPORT NUTRITION (3 credits)**

This course presents an overview of the principles of nutrition and the relationship between nutrition and health, fitness, and sports performance. It is designed to provide students with the knowledge and skills necessary to assess nutritional status, improve overall health, and enhance sports performance. (Cross-listed with KINS 8056).

**Prerequisite(s):** HEKI 3090

**KINS 4070 OPTIMIZING SPORTS PERFORMANCE (3 credits)**

The course is designed for coaches, athletes and physically active people, and allied health professionals. Course content emphasizes integration of several disciplines in sports medicine aimed at preparing one for optimal sports performance. Topics include peaking, detraining, overuse injury, efficiency, special foods and nutritional requirements, genetics and trainability, and designing of multi-year training schedules. (Cross-listed with KINS 8076).

**Prerequisite(s):** PE 4940/KINS 4940 with a grade of C- or better.

**KINS 4080 CLINICAL EXERCISE PHYSIOLOGY (3 credits)**

This course will offer students the knowledge, skills, and abilities to take the American College of Sports Medicine's health fitness instructor certification exam. This course will emphasize health risk assessment, exercise testing, and exercise prescription for healthy and clinical populations. (Cross-listed with KINS 8086).

**Prerequisite(s):** PE 4940/KINS 4940 with a grade of C- or better.

**KINS 4100 APPLIED KINESIOLOGY (3 credits)**

This course will introduce students to the use of basic theories and principles of movement analysis from a kinesiological perspective. Students will apply anatomical knowledge to break down movement from a broad spectrum of activities.

**Prerequisite(s):** BMCH 2400 or PE 2880 or BIOL 2740 or equivalent and sophomore standing

**Distribution:** Writing in the Discipline Sequenced Course

**KINS 4150 ADAPTED PHYSICAL ACTIVITY THEORY AND PRACTICE (3 credits)**

A study of problems as they relate to philosophy, procedures and practices, and organization and administration of physical education & physical activity programs for exceptional students. This course surveys societal issues surrounding adaptive sports and recreation along with movement problems associated with specific disabilities. This course also provides the student with an opportunity to work with an individual who has a disability.

**Prerequisite(s):** PE 2800 or KINS 2800 with a grade of C- or better and Jr Standing and PYED major or TED 2300 and TED 2380 and Special Education or Secondary Education major with endorsement codes: 0802S or 0802C or 1913S

**Distribution:** U.S. Diversity General Education course

**KINS 4200 PLANNING WORKSITE WELLNESS PROGRAMS (3 credits)**

This course will focus on the planning of quality worksite wellness programs utilizing standards established by the Association for Worksite Health Promotion. Steps in the planning process such as needs assessment, strategic planning, implementation, and evaluation will be taught with special application to the worksite. Critical issues involving worksite programs also will be addressed such as upper management support, program standards, corporate culture, competencies for worksite health promotion professionals, economic benefits, behavioral theories, legal issues, and the integration of worksite wellness programs and health care. (Cross-listed with KINS 8206).

**Prerequisite(s):** Junior standing.

**KINS 4310 LOWER EXTREMITY EVALUATION (3 credits)**

This course is designed to provide the candidate with knowledge and skill in the area of advanced athletic injury assessment. The candidate will be exposed to current methodology in the field of orthopedic assessment, pathophysiology of orthopedic injury, and application of current research in injury evaluation. The candidate will receive practical experience in the management of athletic injuries. This course will focus on the low back, hip, and lower extremities. (Cross-listed with KINS 8316).

**Prerequisite(s):** PE 2700 or KINS 2700 and PE 4710 or KINS 4710. Not open to non-degree graduate students.

**KINS 4320 UPPER EXTREMITY EVALUATION (3 credits)**

This course is designed to provide the candidate with knowledge and skill in the area of advanced athletic injury assessment. The candidate will be exposed to current methodology in the field of orthopedic assessment, pathophysiology of orthopedic injury, and application of current research in injury evaluation. The candidate will receive practical experience in the management of athletic injuries. This course will focus on the head, neck, thorax, and upper extremities. (Cross-listed with KINS 8326).

**Prerequisite(s):** PE 4310/KINS 4310, PE 4330/KINS 4330, and PE 4720/KINS 4720. Not open to non-degree graduate students.

**KINS 4330 ATHLETIC THERAPEUTIC MODALITIES (3 credits)**

This course will cover the theory, physiology and application of physical agents used in the treatment of injuries and illness. Students will gain practical experience utilizing selected agents to treat injuries and illnesses. (Cross-listed with KINS 8336).

**Prerequisite(s):** PE 2700 or KINS 2700 and PE 4710 or KINS 4710. Not open to non-degree graduate students.

**KINS 4350 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING (3 credits)**

Administration of athletic training programs including the use of records and forms, budgets, facility design and legal concerns. (Cross-listed with KINS 8356).

**Prerequisite(s):** PE 4340/KINS 4340, PE 4320/KINS 4320

**KINS 4360 ORTHOPEDIC AND MEDICAL ASPECTS OF ATHLETIC TRAINING (3 credits)**

This course will enhance the candidate's knowledge of orthopedic and medical aspects of athletic training. Involves directed observation, experiential learning, literature review and hands-on experience under the supervision of local medical professionals in various settings. The student will be exposed to advanced evaluation and treatment skills, including imaging techniques and surgical procedures, rehabilitation and athletic training management.

**Prerequisite(s):** PE 4320/KINS 4320 and PE 4340/KINS 4340

**KINS 4500 BEHAVIORAL ASPECTS OF COACHING (3 credits)**

This course is designed to provide the physical education teacher and athletic coach with an overview of the behavioral aspects of coaching athletes. The course will provide information which will enable the coach to enhance as well as orchestrate performance of elementary, junior high, senior high, college, and post-college athletes. (Cross-listed with KINS 8506).

**KINS 4700 FITNESS MANAGEMENT (3 credits)**

This course is an introduction to management concepts for fitness professionals such as human resource management, financial management, marketing, and facility risk management. Assessment, development, prescription, implementation, and evaluation strategies will be presented for each management concept. Students will develop the knowledge and skills necessary to orchestrate and manage high quality programs in various fitness settings.

**KINS 4710 CLINICAL PRACTICUM IN ATHLETIC TRAINING I (1 credit)**

Clinical Practicum in Athletic Training I is the first course in the Clinical Practica series for students admitted to the Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills. Students will demonstrate skills and proficiencies in emergency procedures and the basic therapeutic modalities.

**Prerequisite(s):** Formal admission to the Athletic Training Program, instructor permission, & continued compliance w/published Athletic Training Program Technical Standards for Admission. Co-requisite: PE 2700/KINS 2700. Not open to non-degree graduate students.

**KINS 4720 CLINICAL PRACTICUM IN ATHLETIC TRAINING II (1 credit)**

Clinical Practicum in Athletic Training II is the second course in the Clinical Practica series for students admitted to the Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills. Students will demonstrate advanced proficiencies in emergency procedures and initial proficiencies in lower extremity evaluation and application of therapeutic modalities.

**Prerequisite(s):** Formal admission to Athletic Training Program, PE 4710/KINS 4710, instructor permission, compliance w/ published Athletic Training Program Technical Standards for Admission. Co-requisite: PE 4310/KINS 4310 & PE 4330/KINS 4330

**KINS 4730 CLINICAL PRACTICUM IN ATHLETIC TRAINING III (1 credit)**

Clinical Practicum in Athletic Training III is the third course in the Clinical Practica series for students admitted to the Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills. Emphasis on mastery of skills and proficiencies in lower extremity care and initial proficiency in upper extremity evaluation and care.

**Prerequisite(s):** Formal admission to Athletic Training, PE 4720/KINS 4720, instructor permission, compliance w/published Athletic Training Technical Standards for Admission. Co-requisite: PE 4320/KINS 4320 & PE 4340/KINS 4340. Not open to non-degree graduate students.

**KINS 4740 CLINICAL PRACTICUM IN ATHLETIC TRAINING IV (1 credit)**

Clinical Practicum in Athletic Training IV is the fourth course in the Clinical Practica series for students admitted to the Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills. Emphasis on mastery of upper extremity evaluation and care and skills in medical exam techniques, pharmacology and interviewing.

**Prerequisite(s):** Formal admission to Athletic Training Program, PE 4730/KINS 4730, instructor permission, & compliance with published Athletic Training Program Technical Standards for Admission. Co-requisite: PE 4360/KINS 4360. Not open to non-degree graduate students.



**KINS 4750 CLINICAL PRACTICUM IN ATHLETIC TRAINING V (1 credit)**

Clinical Practicum in Athletic Training V is the fifth course in the Clinical Practica series for students admitted to the Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills. Emphasis on mastery of skills in medical examination techniques and administrative tasks.

**Prerequisite(s):** Formal admission to the Athletic Training Program, PE 4740/KINS 4740, instructor permission, & compliance w/published Athletic Training Program Technical Standards for Admission. Co-requisite: PE 4350/KINS 4350. Not open to non-degree graduate students.

**KINS 4800 KINESIOLOGY PRACTICUM (3 credits)**

This practicum places the candidate in the role of an exercise leader in a Fitness for Living class. During this experience the candidate will participate in a seminar which will meet three days a week. Responsibilities in the role of an exercise leader will include: direct contact with students enrolled in this class during all lectures and activities and exercise leadership and supervision, fitness testing, and class presentations. During the seminar sessions the candidates will participate in discussions, group activities, and share experiences relative to their exercise leadership roles. Candidates must have current CPR certification.

**Prerequisite(s):** PE 2210/KINS 2210, PE 2220/KINS 2220, BMCH 2500 or BIOL 2840, BMCH 4630 or KINS 4100, PE 4940/KINS 4940, CPR certification and department consent. Students cannot complete KINS 4010 and KINS 4800 in the same term.

**KINS 4850 CARDIOVASCULAR DISEASE PREVENTION AND REHABILITATION (3 credits)**

The purpose of this course is to provide candidates with an introduction to the theories and practices involved in all phases of cardiac rehabilitation. (Cross-listed with KINS 8856).

**Prerequisite(s):** PE 2500/KINS 2500 with a grade of C- or better or BIOL 2840 with a grade of C- or better, PE 4940/KINS 4940 with a grade of C- or better

**KINS 4910 INTERNSHIP IN KINESIOLOGY (3 credits)**

This course is a supervised, educational work experience of at least 150 clock hours over one semester at an approved worksite offering programs and experiences in all areas of kinesiology and health promotion. Needs instructor approval to enroll in course. For H&K majors only. Must attend Info Session as scheduled by instructor.

**Prerequisite(s):** H&K majors only. PE 4800 or KINS 4800 and KINS 4010, GPA of 2.5 or above in required courses, and no grade below a C in required courses, and permission by of instructor. Must attend Info Session as scheduled by Instructor.

**KINS 4930 MEASUREMENT AND EVALUATION IN KINESIOLOGY (3 credits)**

This course is designed to present the theory and application of measurement and evaluation techniques commonly used in physical education, exercise science, physical activity, and health promotion. Appropriate test selection, administration, and the interpretation of results with fundamental statistical methods will be emphasized. Students will participate in selected practical testing and measurement procedures.

**Prerequisite(s):** PE 4940 or KINS 4940 with a grade of C- or better

**KINS 4940 PHYSIOLOGY OF EXERCISE (3 credits)**

A study of the major physiological systems of the human body and its acute and chronic responses to exercise. Includes application of physiological concepts to physical training and conditioning.

**Prerequisite(s):** BMCH 2400 or BIOL 2740 with a grade of C- or better and sophomore standing. School of H&K majors or Human Performance minors only, or with department approval.

**Distribution:** Writing in the Discipline Sequenced Course

**KINS 4960 TOPICS IN SPORTS MEDICINE (3 credits)**

This course covers selected topics regarding the science and medicine of sports participation. Some areas to be covered include the medical supervision of the athlete, special populations, conditioning, environmental concerns and sports nutrition.

**Prerequisite(s):** PE 4340/KINS 4340, PE 4350/KINS 4350, and PE 4730/KINS 4370; or instructor permission

**KINS 4970 PROBLEMS OF PHYSICAL EDUCATION (1-3 credits)**

This course is designed to provide an opportunity for individuals or groups to study problems in physical education.

**Prerequisite(s):** Permission of instructor

**KINS 4980 COACHING PRACTICUM (1 credit)**

This course is designed to give the candidate practical experiences in the coaching of specific sports.

**Prerequisite(s):** Junior standing and related coaching methods course. Permission of instructor

**KINS 4990 INTERNSHIP IN ATHLETIC TRAINING (6 credits)**

This course is a supervised, educational work experience of at least 300 clock hours over a minimum of a 10-week period at an approved athletic training worksite.

**Prerequisite(s):** 90 hours completed, 2.5 GPA and department consent

## Latin (LATN)

### Latin Undergraduate Courses

**LATN 1110 ELEMENTARY LATIN I (5 credits)**

This course will provide opportunities for students to develop a basic reading knowledge of Latin.

**LATN 1120 ELEMENTARY LATIN II (5 credits)**

This is the second semester of a university-oriented two-year Latin course. The course will cover the basics of Latin grammar, which will be instrumental in preparing the student for reading Latin primary sources and making connections between that content and the literatures of Western Europe.

**Prerequisite(s):** LATN 1110 or placement by instructor's diagnostic examination.

**LATN 2110 INTERMEDIATE LATIN I (3 credits)**

This is the third semester of a university-oriented two-year sequence of Latin courses. The course will cover the basics of Latin grammar, which will be instrumental in preparing the students for reading Latin primary sources and making connections between their contents and the literatures of Western Europe.

**Prerequisite(s):** LATN 1120 or placement by instructor's diagnostic examination.

**LATN 2120 INTERMEDIATE LATIN II (3 credits)**

This is the fourth semester of a university-oriented two-year sequence of Latin courses. The course will cover the basics of Latin grammar, which will be instrumental in preparing the students for reading Latin primary sources and making connections between their contents and the literatures of Western Europe.

**Prerequisite(s):** LATN 2110 or placement by instructor's diagnostic examination.



# Latino/Latin American Studies (LLS)

## Latino/Latin American Studies Undergraduate Courses

### LLS 1000 LATIN AMERICA: AN INTRODUCTION (3 credits)

The course introduces the students to the study of Latin America. Its main focus is on contemporary Latin American societies and regional dynamics, but historical forces and the impact of globalization are continuously evaluated. Students will learn about the region's dominant forces and trends associated with development policies, political regimes, population changes, urbanization, and a whole host of social problems, challenges and perspectives. Topics for readings, discussions and assignments include social inequality, gender, race, violence, the environment, food, health, education, social media, religion, emigration and international relations. Students will have opportunities to explore in more depth specific topics as well.

**Distribution:** Global Diversity General Education course and Social Science General Education course

### LLS 1020 INTRODUCTION TO CHICANO/LATINO STUDIES (3 credits)

The course introduces students to intellectual, artistic, literary, musical, and other cultural traditions and contributions of Chicanos/Latinos in the U.S. and in their historical crossing of real and imaginary borders. This course focuses on the specific groups that make up the Latino population in the United States (i.e. Chicanos, Puerto Ricans, Cubans, Central Americans and South Americans) and examines each group's settlement, migration, and social integration paths. Topics for readings, discussions, and assignments include the different racial, ethnic, gender, sexual identities, immigration status and other social groups that construct the Latino population.

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

### LLS 2480 HISTORY OF LATIN AMERICA: PRECONQUEST TO THE PRESENT (3 credits)

A history of the nations of Latin America from the pre-Columbian indigenous cultures to the present time. Among the topics included will be the nature of indigenous cultures, the various European incursions, regional revolutions against European empires, nation-building, and the place of Latin America in global history. (Cross-listed with HIST 2480).

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

### LLS 2810 MUSIC IN LATIN AMERICAN CULTURE (3 credits)

This course surveys musical traditions from countries in Latin America and the Caribbean. Characteristic regional genres, ensembles, instruments, and music rituals will be examined. We will also trace the historical, cultural, and socio-political aspects of Latin American music on a global scale and delve into the developments of some international musical genres. (Cross-listed with MUS 2810).

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

### LLS 3050 LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE (3 credits)

This course focuses on the development and intensive practice of oral expression in Spanish, and is intended for students interested in the fields of business, health, education, environmental sciences, social work, and cultural studies, who are either heritage speakers of Spanish or who are completing a major/minor in Spanish. The class provides a broad context of current relevant issues in Latin America, including politics and society; the state of the economy after decades of neoliberalism; racism; indigenous and Afro-descendent identities; domestic and gender violence; health and disabilities; adult, youth, & child immigration; and ecology and the environment. (Cross-listed with SPAN 3050).

**Prerequisite(s):** SPAN 3010 or SPAN 3030

### LLS 3070 GEOGRAPHY OF LATIN AMERICA (3 credits)

This course surveys the physical and human environments of Latin America. Emphasis is placed upon cultural factors in the use of land and Latin American development. (Cross-listed with GEOG 3070).

**Prerequisite(s):** LLS 1000 or instructor approval

### LLS 3140 LATINO/-A POLITICS (3 credits)

This course introduces students to the dynamism and growth of the role of Latinos, as a group of political actors, in the United States. This course provides students with an exposure to and understanding of various concepts and dimensions of this phenomenon, including historical and contemporary Latino political thought and the efforts to increase political empowerment (representation and participation) and influence through grassroots, social, and political movements. (Cross-listed with PSCI 8145, PSCI 3140, LLS 8145)

**Prerequisite(s):** PSCI 1100 is recommended.

**Distribution:** U.S. Diversity General Education course

### LLS 3420 LATIN AMERICAN CIVILIZATION (3 credits)

What do we know about Latin American culture, geography, politics and languages? How has Latin America been imagined from the United States? Does it make sense to think of Latin America as one space brought together by a similar history or is it better to imagine it as twenty particular countries with intersecting pasts and futures? This course will attempt to answer these questions by introducing you to a number of key topics and debates common to contemporary Latin American culture, including issues such as democracy, class, race/ethnicity, gender/sexuality, religion, family and globalization. (Cross-listed with SPAN 3420).

**Prerequisite(s):** SPAN 3030 or SPAN 3010, LLS 1000 or instructor approval.

### LLS 3510 IMMIGRATION LAW AND LATINOS (3 credits)

This course provides an overview of the U.S. Immigration laws with an emphasis on Latino migration. In analyzing Latino migration, we will look at the push and pull factors of migration, the channels available for lawful migration, and the impact immigrants have in our society. (Cross-listed with PSCI 3510).

**Prerequisite(s):** Must have taken at least one social science course as well as a different LLS course, junior standing or above, or permission of the instructor.

### LLS 3680 GOVERNMENT AND POLITICS OF LATIN AMERICA (3 credits)

This course introduces students to the political institutions, processes, and public policies of the states of Latin America. (Cross-listed with LLS 8685, PSCI 3680, PSCI 8685)

**Prerequisite(s):** PSCI 2500 or junior status or permission of instructor.

**Distribution:** Global Diversity General Education course

### LLS 4140 INTRODUCTION TO LATIN AMERICAN FILM (3 credits)

The course will be a thematic study of significant Latin American films emphasizing and further investigating their relationship to history, culture, society and political issues that have often given rise to social movements. Films from a variety of Spanish-speaking countries including Mexico, Argentina, Chile, Cuba, Bolivia, etc. will be studied in their socio-political context. At the 8146 level, students will be introduced to theoretical approaches such as early film theory, montage theory, feminist theory, race theory, and phenomenological film theory in order to deepen their understanding these themes. (Cross-listed with SPAN 8146, SPAN 4140).

**Prerequisite(s):** SPAN 3030 or SPAN 3010, SPAN 3040 or SPAN 3020, SPAN 3060

**LLS 4170 INTRODUCTION TO LATIN AMERICAN LITERATURES (3 credits)**

The course is intended as an introduction to the study of canonical and non-canonical texts in Latin American literatures, from the 16th to 21st centuries. It seeks to acquaint students with the rich literary traditions of a large region, from South America to Central America and Mexico, as well as with the historical challenges posed by the salient heterogeneity of texts included in the Latin American corpus, from the standpoint of ethnicity, gender, social class, and literary genre. The course also focuses on continuing to develop Spanish language skills, specifically reading for comprehension and interpretation of metaphorical meaning, writing, and presentational speaking skills in Spanish. (Cross-listed with SPAN 8176, SPAN 4170).

**Prerequisite(s):** SPAN 3030, SPAN 3040; or SPAN 3010, SPAN 3020; SPAN 3060.

**LLS 4240 SOCIAL TRANSFORMATIONS IN LATIN AMERICA (3 credits)**

The course reviews the main social, economic, and political forces that have shaped Latin American societies, and the sociological theories used to understand Latin American development and underdevelopment. Race, ethnicity, gender and class in Latin America, as well as the region's position in the global economy are examined. (Cross-listed with SOC 8246, SOC 4240, LLS 8246).

**Prerequisite(s):** Must have taken at least one social science course as well as a different LLS course, junior standing or above, or permission of the instructor.

**Distribution:** Global Diversity General Education course

**LLS 4250 RESEARCHING LATIN AMERICAN MIGRATIONS (3 credits)**

In this course we will use an interdisciplinary lens to study the changes and continuities of migration in the Americas. The course starts with an overview of immigration to the Americas during the first era of mass migration (1850-1920) to explore the relevance of European migrations for national and identity constructions in the Southern Cone of America. Students then will be introduced to the impacts of social and political change on emigration flows, both regionally and beyond the region. They will also explore migration related policies at the national and regional level. We will also study the changes and continuities in the migration system of the Americas. Lastly, we will analyze the new North-South migration, as well as immigration to Latin America from Asia (recent and historical), Europe, and Africa. (Cross-listed with SOC 4250, SOC 8256, LLS 8256).

**Prerequisite(s):** Must have taken at least one social science course as well as a different LLS course, junior standing or above, or permission of the instructor.

**Distribution:** Global Diversity General Education course

**LLS 4280 INTERNATIONAL RELATIONS OF LATIN AMERICA (3 credits)**

Analysis of the role of Latin American states in the international political arena. Emphasis upon developing, applying and testing an explanatory theory of international politics through the study of the inter-American system: the regional, institutional and ideological environment, power relations, policies and contemporary problems. (This course fulfills the department's international politics requirement). (Cross-listed with LLS 8286, PSCI 4280, PSCI 8286)

**Prerequisite(s):** PSCI 2500 or junior standing or permission of the instructor.

**Distribution:** Global Diversity General Education course

**LLS 4430 INTERNATIONAL MIGRATION, DEVELOPMENT AND CITIZENSHIP (3 credits)**

The course examines the forces driving contemporary global migration, the impact of migration in both sending and receiving nations' development, as well as the politics and practices of migration policy development. The course also discusses the current debates on immigrant incorporation and citizenship in the receiving countries. (Cross-listed with LLS 8436, CACT 8436).

**Prerequisite(s):** Must have taken at least one social science course as well as a different LLS course, junior standing or above, or permission of the instructor.

**LLS 4510 ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES (3 credits)**

The course will examine representations of illness, disease, and affections in literary and cultural texts from the Latin American Southern Cone, focusing in Argentina, Uruguay, and Chile. It will explore notions of health and disease, as embedded in literary and cultural texts from the late 19th to the 21st centuries. We will examine the ways in which physical ailments, mental health symptoms, and other conditions or disorders have been conceptualized and portrayed, co-relating the individual "disruptions" caused by unwellness with a host of social and cultural factors. The course will also explore current treatments and therapies for the illnesses discussed in the texts, taking into account the integration of western and alternative medicine and practices. (Cross-listed with SPAN 8516, SPAN 4510, LLS 8516).

**Prerequisite(s):** LLS 1000; SPAN 3030 and SPAN 3040 or SPAN 3010 and SPAN 3020; SPAN 3060; or special permission from instructor.

**LLS 4650 SLAVERY AND RACE RELATIONS IN THE AMERICAS (3 credits)**

Slavery and Race Relations in the Americas examines the historical relationship between the trans-Atlantic slave trade and American race relations, connecting the enslavement of Africans in the Americas to race relations in the Caribbean, Latin America, and the United States. (Cross-listed with BLST 8656, BLST 4650, HIST 8076, HIST 4070, LLS 8656).

**Prerequisite(s):** LLS 1000, junior standing, or instructor permission

**LLS 4780 URBAN LATIN AMERICA (3 credits)**

This course examines the experience of Latin American urbanization, attending to its contributions to urban sociology, social movements, and policymaking. Topics include urban transitions (e.g. pre-Hispanic to colonial, post-colonial to industrial, and the neoliberal turn), socio-spatial configurations (e.g. plazas, squatter settlements), urban marginality debates, urban politics, and planning as well as governance innovations (e.g. bus rapid transit systems, participatory budgeting). Students will compare city case studies across the region and to urban life in the United States. (Cross-listed with SOC 4780, SOC 8786, LLS 8786, CACT 8186).

**Prerequisite(s):** Must have taken at least one social science course as well as a different LLS course, junior standing or above, or permission of the instructor

**Distribution:** Global Diversity General Education course

**LLS 4900 INDEPENDENT STUDY (3 credits)**

This course is designed for those students who are capable of pursuing, independently, an area of Latino/Latin American Studies that is not covered under the existing curriculum. The student will be supervised by a member of the faculty of the LLS department. All course assignments, requirements, and expectations will be clearly indicated in advance. May be repeated for credit, up to six hours, under a different topic.

**Prerequisite(s):** Permission of LLS faculty member required.

**LLS 4950 LATIN AMERICAN STUDY ABROAD (3 credits)**

This course is designed as an international study abroad course that will introduce undergraduate and graduate students to the dynamism of socio-cultural, economic, and political changes taking place across Latin America. Note: International travel and special fees required. (Cross-listed with LLS 8956, INST4950)

**Prerequisite(s):** Senior standing or Junior standing with permission of the department. LLS 1000 or LLS 1010 or equivalent and departmental permission.

## Law and Society (LAWS)

### Law and Society Undergraduate Courses

**LAWS 2000 SPECIAL TOPICS IN LAW AND SOCIETY (3 credits)**

This special topics course will address specific topics which will vary by semester and is intended primarily for upper division business students who are pursuing a Legal Studies concentration.

**LAWS 3000 INTRODUCTION TO THE LEGAL PROFESSION (1 credit)**

This course provides experiences and assignments designed to enhance understanding of the legal system, legal education, law school admissions processes, legal career opportunities, legal analysis, the legal profession, and the law school experience.

**LAWS 3170 ETHICS IN BUSINESS (3 credits)**

Application of ethical concepts and principles to moral issues in business including corporate responsibility, discrimination, advertising, competition, whistle-blowing, trade secrets, multinationals, environment, workers' rights, government regulation, investment, bribes, product liability, and consumerism.

**Prerequisite(s):** ECON 2200 and ECON 2220.

**LAWS 3460 REAL ESTATE LAW (3 credits)**

Upper-level survey course in real estate law, which examines estates in land, conveyances, leases, mortgages, easements, zoning, environmental law, contracts, taxes, foreclosures, landlord-tenant relations, agency, Fair Housing, and Nebraska License Law. (Cross-listed with RELU 3460)

**Prerequisite(s):** RELU 2410 or RELU 3410.

**LAWS 3930 BUSINESS LAW FUNDAMENTALS (3 credits)**

LAWS 3930 introduces students to the legal system governing business transactions. This course emphasizes constitutional law, the Common Law, and relevant statutory law. The legal topics covered include litigation and ADR, torts, contracts, Sale of Goods, insurance, international law, and regulation of business.

**Prerequisite(s):** ENGL 1160, CMST 1110, ECON 2200, & MGMT 3200 or MKT 3200 all with 'C'(2.0) or better, 2.5 GPA.

**LAWS 3940 LEGAL AND ETHICAL APPLICATIONS (3 credits)**

LAWS 3940 exposes students to business organization law and ethics. Emphasis is on business organizations (e.g., agency, partnerships, corporations), financial transactions (e.g., checks, liens, securities), and property (e.g., environment, intellectual). Ethics is a discrete subject area studied and its analytical tools are applied to all of these areas of law.

**Prerequisite(s):** LAWS 3930 and ACCT 2020 both with C+ (2.3) or better; 2.5 GPA

**LAWS 4220 LEGAL ISSUES IN MANAGEMENT (3 credits)**

This course provides an overview of the general nature of legal knowledge in human resources administration. The course is designed to alert students of the legal considerations when an employer-employee relationship is established. Discusses how human resource practices have been impacted by recent legal developments, anti-discrimination laws, affirmative action and labor relations.

**Prerequisite(s):** MGMT 3490 and MGMT 3510 or MGMT 4030 with a C (2.0) or better, and a 2.5 GPA, or permission of instructor.

**LAWS 4500 SPECIAL PROBLEMS IN LAW AND SOCIETY (1-6 credits)**

Individual investigation of specific problems in the field of business law. (Fall, Spring)

**Prerequisite(s):** Senior and permission of program chair.

**LAWS 4510 LAW AND SOCIETY INTERNSHIP (1-3 credits)**

Students engage in an applied experience in their concentration area to gain relevant industry experience and to practice the skills and concepts learned in the classroom. Student reports on the internship experience and an employer's evaluation of the student's performance are course requirements. LAWS 4510 may be taken for a maximum of 3 credits. (Fall, Spring, Summer)

**Prerequisite(s):** Permission of Department Internship Coordinator.

**LAWS 4910 SEMINAR ON BUSINESS LAW (3 credits)**

Contact the instructor since the content will vary from semester to semester, but will have a strong emphasis on current events. The course will focus on one aspect of relationship between government and business, and its related ethical and international law issues. A major student research project is included.

**Prerequisite(s):** LAWS 3930, ECON 2200, and ACCT 2020, or permission of department chair.

**LAWS 4930 INTERNATIONAL BUSINESS LAW (3 credits)**

This course is designed to inform students interested in international business transactions of the major legal principles governing international law, the major legal systems affecting the conduct of international business transactions, the domestic and foreign policies of the United States which affect business overseas, and foreign business inside American borders.

**Prerequisite(s):** LAWS 3930.

## Management (MGMT)

### Management Undergraduate Courses

**MGMT 1200 INTRODUCTION TO MANAGEMENT (3 credits)**

This course will introduce foundational management concepts including management functions, leadership, planning, decision-making, quality improvement, ethics and careers in management.

**MGMT 1500 INTRODUCTION TO BUSINESS (3 credits)**

This course is for students who are interested in gaining foundational knowledge in many aspects of the business world including economics, finance, marketing, management, and accounting.

**Distribution:** Social Science General Education course

**MGMT 3100 MANAGEMENT INFORMATION SYSTEMS (3 credits)**

This course covers a broad spectrum of knowledge and techniques in MIS. Students will be given the opportunity to relate how technology and systems are utilized to support managerial decision making, streamline business processes, and enhance general organizational efficiencies. Topics centering around IT planning, network computing, electronic commerce, and data/knowledge management are all used to instill the importance of leveraging information systems for strategic advantage.

**Prerequisite(s):** ACCT 2020, MGMT 3200 or MKT 3200, and MGMT 3490, each with a 'C' (2.0) or better, and a 2.5 GPA. Not open to non-degree graduate students.

**MGMT 3410 INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (3 credits)**

Supply chain management is the design and management of business processes needed to turn raw materials from suppliers into products and services that meet the needs of the final customer. The goals of this course center around providing students with the foundations of supply chain management and effectively managing the flow of goods, information, and services to obtain sustainable competitive advantage within an industry. Students will develop critical thinking skills focused on business process analysis and the use of key performance indicators to determine operational efficiencies for all organization levels. (Cross-listed with SCMT 3410, MKT 3410).

**Prerequisite(s):** Sophomore standing; GPA of 2.0 or better; or by permission of instructor. Not open to non-degree graduate students.

**MGMT 3490 MANAGING PEOPLE AND ORGANIZATIONS (3 credits)**

In this course, students will delve into applying management concepts to the real-world and the dynamic interplay between individuals, groups, and broader organizational contexts. The course uses effective management practices and leadership styles mixed with knowledge of organizational structures and intricacies of human behavior to promote individual's confidence in skills areas such as communication, conceptualization, interpersonal problems, and decision-making. Students are exposed to current management trends and the importance of successful management in modern organizations.

**Prerequisite(s):** ENGL 1160 and MGMT 3200 or MKT 3200 each with a "C" (2.0) or above, and a 2.5 cumulative GPA.

**MGMT 3600 BUSINESS ETHICS (3 credits)**

Students will learn about the factors, opportunities and pressures that lead to ethical dilemmas, and will develop their understanding of foundations and processes that encourage and reward ethical decision making and behaviors. Lots of examples, sourced from case studies and current events will be provided. (Cross-listed with BSAD 3600, MKT 3600)

**Prerequisite(s):** Junior classification (minimum of 58 earned credit hours) with a minimum 2.5 cumulative GPA. Completion of MGMT 3200 or MKT 3200 with a minimum grade of "C" (2.0). Not open to non-degree graduate students.

**MGMT 3800 CROSS-SECTOR COLLABORATIVE LEADERSHIP (3 credits)**

The goal of PA 3800/MGMT 3800 is to prepare students to serve as collaborative leaders of cross-sector initiatives. Specifically, this course will prepare students for success in working collaboratively across private, nonprofit and public sector organizations while also enhancing their overall development as a leader. Examples of successful and unsuccessful cross-sector collaborations will be explored along with discussions of theories related to cross-sector collaboration. (Cross-listed with PA 3800).

**Prerequisite(s):** Permission from instructor or MGMT 3490 with a grade of C or higher or enrollment in the cross-sector collaborative leadership minor.

**MGMT 4000 SPECIAL TOPICS IN MANAGEMENT (3 credits)**

This special topic course will address specific topics of management that vary by semester. The course is intended primarily for upper division students who are pursuing a management and leadership, supply chain management, or human resources management concentration.

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA; or permission of instructor.

**MGMT 4010 TOTAL REWARDS (3 credits)**

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee compensation and benefits programs. Students will gain and utilize effective strategies for managing the single largest controllable expense for organizations; employee pay and benefits. The design of this course is most beneficial for students pursuing future careers in management and human resource professions. (Cross-listed with BSAD 8146, MGMT 8146, HRM 4010, HRM 8146).

**Prerequisite(s):** MGMT 3490 with a C or better and MGMT 4030 with a C+ or better and a 2.5 GPA; or permission of instructor

**MGMT 4030 HUMAN RESOURCE MANAGEMENT (3 credits)**

This course is a comprehensive review of the field of human resource management and its relevance to employees, managers, and organization stakeholders for goal achievement. The design of this course is structured to educate future managers and leaders on the importance of utilizing effective HR methods that comply with federal laws and the critical role of HR professionals in achieving the organization's positive workplace culture, competitive advantage, and overall success. (Cross-listed with BSAD 8136, MGMT 8136, HRM 4030, HRM 8136).

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA; or permission of instructor.

**MGMT 4040 MANAGING BEHAVIOR IN ORGANIZATIONS (3 credits)**

In this course students will learn the knowledge and skills necessary to effectively manage and lead others. The foundations of Organizational Behavior are explored through discussion, application, and analysis, to build connection to critical aspects of real-world scenarios. Students are equipped with the tools and resources to understand the decision-making process, on both the individual and organizational level, to shape behaviors of topics overviewing attitudes, motivation, leadership, employee engagement, group dynamic, and company culture. (Cross-listed with HRM 4040).

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA; or permission of instructor. Not open to non-degree graduate students.

**MGMT 4050 MANAGERIAL DECISION MAKING (3 credits)**

This course will provide students with the opportunity to learn, understand, and apply techniques for effective individual and organizational problem solving. The students will interactively participate in generating, prioritizing and organizing their ideas in order to become better managerial decision-makers/problem solvers.

**Prerequisite(s):** MGMT 3490 with a C, or a 2.5 GPA, or permission of instructor

**MGMT 4060 HEALTHCARE ANALYTICS FOR BUSINESS (3 credits)**

This course will focus on the mixing of analytics and technology to develop key performance indicators that integrate and evaluate clinical, administrative, and financial performance. Concepts in this course explore the intersection of information management, performance metrics, data visualization, and result communication spanning across the healthcare ecosystem. Topics covering health outcome analysis, financial performance, developing analytic strategies, data quality and governance, and the four stages of actionable intelligence are all used to educate the advantages of leveraging analytics. (Cross-listed with BSAD 8066, HLSC 8066, MGMT 8066, SCMT 8066, SCMT 4060).

**Prerequisite(s):** MGMT 3490 or SCMT 3410; GPA of 2.5 or better; or by permission of instructor. Not open to non-degree graduate students.

**MGMT 4090 MANAGING COLLABORATIVE ENGAGEMENT (3 credits)**

This course will provide students with the opportunity to develop knowledge and strategies for leading teams, enhancing collaboration, building consensus, problem solving in teams, facilitating group processes, and designing collaborative workspaces. (Cross-listed with BSAD 8096, ACMP 4090, MGMT 8096, SCMT 4090).

**Prerequisite(s):** Junior standing or permission of instructor. Not open to non-degree graduate students.

**MGMT 4100 MANAGING CHANGE AND INNOVATION (3 credits)**

This course is designed to increase students' understanding and knowledge of today's rapidly evolving business landscapes. Navigating through aspects of value creation, obtaining competitive advantage, adaptability, and managing resistance supports individuals' ability in influencing change management and innovating environments in many organizational settings.

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA; or permission of instructor.



**MGMT 4110 STAFFING THE ORGANIZATION (3 credits)**

This course is a comprehensive review of issues and techniques involved in the acquisition and management of a high quality and diverse workforce for optimal organizational effectiveness. Students pursuing future manager and human resource professions will benefit from practice utilizing effective strategies for recruiting, selecting, placing, and integrating new employees into an organization's workforce. (Cross-listed with BSAD 8166, MGMT 8166, HRM 8166, HRM 4110).

**Prerequisite(s):** MGMT 3490 with a C or better and MGMT 4030 with a C+ or better and a 2.5 GPA; or permission of instructor. Students are encouraged to take MGMT 4220 prior to taking this course.

**MGMT 4120 TALENT DEVELOPMENT (3 credits)**

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee training and development programs to optimize human capital effectiveness in modern organizations. The course is designed to enable future managers and human resource professionals to utilize effective strategies for assessing employee training needs and developing appropriate solutions to maximize talent utilization. (Cross-listed with BSAD 8156, MGMT 8156, HRM 4120, HRM 8156).

**Prerequisite(s):** MGMT 3490 with a C or better and MGMT 4030 with a C+ or better and a 2.5 GPA; or permission of instructor.

**MGMT 4150 GLOBAL BUSINESS MANAGEMENT (3 credits)**

The central objective of this course is to explore the unique opportunities and challenges that confront international managers as they navigate the complex and ever-changing global economic, political, legal, technological, and cultural environment. This course will particularly focus on people, values, and culture, better equipping students to both undertake an international career as well as effectively lead organizations with a culturally diverse workforce in any environment. (Cross-listed with BSAD 8236, MGMT 8236).

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA, or permission of instructor. Not open to non-degree graduate students.

**MGMT 4220 EMPLOYMENT LAW (3 credits)**

This course is a comprehensive review of the legal framework in human resource management practice. The course is designed to prepare future managers and human resource professionals for the myriad legal issues involved in the employer-employee relationship and what is required for effective compliance. (Spring) (Cross-listed with HRM 4220).

**Prerequisite(s):** MGMT 3490 and MGMT 3510 or MGMT 4030 with a C (2.0) or better, and a 2.5 GPA; or permission of instructor.

**MGMT 4230 LEARNING TO LEAD (3 credits)**

The course provides students with the opportunity to learn historical and modern theories of effective leadership, gain insight into their own leadership styles and aspirations, and learn how to apply leadership theories to real-world leadership cases. Along with empowering individuals' leadership capabilities, this course explores the factors that can influence leader decision-making. (Cross-listed with BSAD 8436, MGMT 8436).

**Prerequisite(s):** MGMT 3490 with a C or better, a minimum cumulative GPA of 2.5, or permission of instructor. Not open to non-degree graduate students.

**MGMT 4330 PROJECT MANAGEMENT (3 credits)**

This course focuses on the systemic exploration of planning and executing complex projects to create organizational success. Using a comprehensive understanding of principles, methodologies, and tools within project management, students will learn how to initiate critical processes, plan objectives and constraints, execute management and leadership, monitor budgets and development, and close outcomes of complex projects. Skills obtained from this course enhance individuals' ability to recognize, identify, and prioritize organizations' culture and structure to lead projects across various industries efficiently. (Cross-listed with BSAD 8336, HLSC 8336, MGMT 8336, SCMT 4330, SCMT 8336)

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA; or permission of the instructor. Not open to non-degree graduate students.

**MGMT 4440 QUALITY MANAGEMENT (3 credits)**

This course approaches Quality Management from a practical quantitative-oriented point of view. Throughout this course, students will be introduced to all five steps of the six sigma continuous process improvement (Define, Measure, Analyze, Implement, and Control). The assignments are designed in project-based formats, in which students will initiate their own process improvement project and follow through with each step for a final grade. Upon the completion of this course, students will understand the ever-evolving nature of quality and quality management. They will also have practical experience in initiating and managing process improvement project at small scale and apply six sigma in their future work. (Cross-listed with BSAD 8446, SCMT 4440).

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA; or permission of instructor.

**MGMT 4450 MANAGERIAL NEGOTIATION STRATEGIES (3 credits)**

This course introduces students to the theory and practice of negotiation across various organizational settings. The ability to successfully negotiate an outcome is an important aspect of management and leadership. Negotiation can be used to determine multiparty relationships, manage conflict resolution, and improve organizational outcomes. Using a combination of conceptual frameworks, roleplaying exercises, and debriefing opportunities, the design of this course is structured to help students understand the power and influence negotiation has over the successful outcomes of managers, leaders, and organizations. (Cross-listed with BSAD 8456, HLSC 8456, MGMT 8456, SCMT 4450, SCMT 8456).

**Prerequisite(s):** MGMT 3490 with a grade of C or above, at least a cumulative GPA of 2.5, or permission of instructor.

**MGMT 4480 CORPORATE AND BUSINESS STRATEGY (3 credits)**

This collaborative course is a comprehensive study of the analytical techniques and managerial tasks associated with analyzing, formulating, and implementing strategy in organizations. Connections between the functional business areas and how to create and maintain a competitive advantage, achieve growth, and drive long-term success are explored through contemporary readings, business cases, team projects, and computerized situations.

**Prerequisite(s):** Must be a graduating senior, have a declared major in BSBA program, 2.5 cumulative GPA, MGMT 3200 or MKT 3200, MGMT 3490, MKT 3310, FNBK 3250 with a "C" (2.0) or better.

**MGMT 4500 SPECIAL PROBLEMS IN MANAGEMENT (1-3 credits)**

This independent study course gives students an opportunity to complete a focused project in the field of management, human resource management international business, supply chain management, or entrepreneurship under faculty supervision.

**Prerequisite(s):** MGMT 3490 with a C or better, 2.5 GPA; permission of program chair; junior/senior standing; must obtain agreement from a faculty member to supervise; submit completed Special Problems contract to MGMT Dept Chair. Forms in CBA advising office.

**MGMT 4510 MANAGEMENT INTERNSHIP (1-3 credits)**

Students can receive degree credit when engaging in part time employment with a business that is relevant to the management discipline. Work assignments are a valuable opportunity to gain practical experience and insight into various aspects of managerial roles within the workforce. Duties within the part time role must relate to general management (i.e., strategy, production/operations, project management, planning, organizing, leading, or controlling) and provide students with an environment to apply their academic knowledge to a professional setting. Combining both academic and professional atmospheres, students gain interpersonal development of leadership and build understanding of managerial responsibilities within organizations.

**Prerequisite(s):** MGMT 3490 with a C or better, a 2.5 GPA, and junior level standing; and permission of instructor.



**MGMT 4520 HUMAN RESOURCES MANAGEMENT INTERNSHIP (1-3 credits)**

Students can receive degree credit when engaging in part time employment with a business that is relevant to the human resources management discipline. Work assignments are a valuable opportunity to gain practical experience and insight into various aspects of HR managerial roles within the workforce. Duties within the part time role must relate to general HR management (i.e., staffing, training, employee relations) and provide students with an environment to apply their academic knowledge to a professional setting. Combining both academic and professional atmospheres, students gain interpersonal development of leadership and build understanding of HR managerial responsibilities within organizations. (Cross-listed with HRM 4520).

**Prerequisite(s):** MGMT 4030 with a C+ or better, a 2.5 GPA, and junior level standing; and permission of instructor.

**MGMT 4550 COOPERATIVE EDUCATION IN BUSINESS ADMINISTRATION (3 credits)**

Students participate in discipline-specific experiential learning activities designed to integrate academic concepts with real-world workplace experiences. The course is focused on the development and application of observation and critical thinking skills to make informed contributions to their organization. Students will create a body of work that will be assessed through self-reflection of the student, feedback from the employer, and evaluation by the instructor. The overall goal is to create a portfolio of work that demonstrates student achievements during the cooperative education experience. (Cross-listed with SCMT 4550).

**Prerequisite(s):** Full-time (Summer-only) 3 Credit Hours, Maximum COOP Credit Hours 15, MKT/SCMT/MGMT 3410 Introduction to Supply Chain Management and GPA of 2.5 or better; AND by permission of the instructor.

**MGMT 4560 COOPERATIVE EDUCATION IN BUSINESS ADMINISTRATION (6-12 credits)**

Students participate in discipline-specific experiential learning activities designed to integrate academic concepts with real-world workplace experiences. The course is focused on the development and application of observation and critical thinking skills to make informed contributions to their organization. Students will create a body of work that will be assessed through self-reflection of the student, feedback from the employer, and evaluation by the instructor. The overall goal is to create a portfolio of work that demonstrates student achievements during the cooperative education experience. (Cross-listed with SCMT 4560).

**Prerequisite(s):** Full-time (Fall and Spring Semesters only) 6-12 Credit Hours, Maximum COOP Credit Hours 15, MKT 3410/SCMT 3410/MGMT 3410 and GPA of 2.5 or better; or by permission of the instructor.

**MGMT 4690 EMERGING TECHNOLOGY AND INNOVATION (3 credits)**

This course equips entrepreneurially-minded students with a more complete range and vision of the viability of various startup opportunities (with a specific focus on innovative technologies and innovative business models). Students will become familiarized with the new and emerging technologies and innovations that define modern industries and product categories, as well as the various shifts in the way cutting-edge business gets done, regardless of industry. (Cross-listed with BSAD 8696, ENTR 4690, ENTR 8696, MGMT 8696).

**Prerequisite(s):** Junior standing or higher; 2.75 minimum GPA; or permission of instructor

**MGMT 4720 INNOVATION VENTURES (3 credits)**

This team-based course provides students with the opportunity to practice the basic tools of business discovery and validation. Concepts and techniques in innovation, entrepreneurship, and strategy will be used to aid students in the venture creation process. Important considerations impacting the viability of the venture post formation will also be explored. Practical real-world experimentation is the central component of the course and will help students to conceive, develop, and launch their own innovative ventures. (Cross-listed with BSAD 8726, ACMP 4720, HCC 8256, ENTR 4720, ENTR 8726, MGMT 8726, MKT 4720, MKT 8726).

**Prerequisite(s):** ENTR 3710 and junior standing or above or by instructor permission

**MGMT 4960 CROSS-SECTOR COLLABORATIVE LEADERSHIP CAPSTONE (3 credits)**

This is a capstone course that prepares students to be effective leaders in the 21st century. This course is the final leadership course in the Cross-Sector Collaborative Leadership minor. This minor requires a capstone project that encompasses the student's knowledge and training. It is designed to provide an applied service-learning opportunity for students. (Cross-listed with PA 4960).

**Prerequisite(s):** Must be completing either the Cross-Sector Collaborative Leadership Minor or the Cross-Sector Collaborative Leadership Concentration. Must have completed PA 3800/MGMT 3800. Not open to non-degree graduate students.

## Marketing (MKT)

### Marketing Undergraduate Courses

**MKT 2210 SURVEY OF MARKETING (3 credits)**

This course is designed for any student who has an interest in marketing and focuses on basic product and services marketing as well as digital and social media marketing.

**MKT 3100 PROFESSIONAL SELLING (3 credits)**

This course focuses on professional selling and relationship marketing principles and practices. A variety of personal and direct sales techniques, psychology, and application of personal communication theory will be applied. Role-plays and presentations will be utilized to help students learn and execute the sales process model.

**Prerequisite(s):** ENGL 1160 with 'C' (2.0) or better and GPA of 2.3 or better; or permission of instructor.

**MKT 3200 BUSINESS COMMUNICATIONS (3 credits)**

This course develops business communication skills such as selecting and using appropriate technologies for reaching intended audiences. Students will practice effective explanatory, narrative, persuasive, and investigative writing in the context of business communication.

**Prerequisite(s):** ENGL 1160 and CMST 1110, each with a grade of "C" (2.0) or better; 2.5 GPA.

**Distribution:** Writing in the Discipline Single Course

**MKT 3310 PRINCIPLES OF MARKETING (3 credits)**

An examination of marketing functions and the institutions which perform them, choice of criteria for marketing strategy decisions, marketing structural relationships, and the role of marketing in society.

**Prerequisite(s):** ECON 2200, MATH 1310 or MATH 1220, ENGL 1160, and MGMT 3200 or MKT 3200 all with 'C'(2.0) or better, and 2.5 GPA.

**MKT 3320 CONSUMER BEHAVIOR (3 credits)**

Consumers purchase, use, experience, and dispose of products and services as part of their consumption process. How and why consumers choose various brand options, form judgments about these brands, and decide which options to buy and/or re-buy are essential knowledge for marketing professionals. The course covers the psychological and social issues that guide consumption decisions. (Cross-listed with BSAD 8345).

**Prerequisite(s):** MKT 3310 with 'C+' or better; 2.5 GPA or better; or permission of instructor.

**MKT 3340 OMNI CHANNEL MARKETING (3 credits)**

This course is designed to provide students with an overview of the omnichannel marketing landscape. Omnichannel marketing focuses on creating a seamless shopping experience through the integration of multiple channels. Attention is paid to how modern-day retailers can create a holistic and highly personalized experience for customers.

**Prerequisite(s):** MKT 3310 with 'C+' or better; and GPA of 2.5 or better; or permission of instructor.

**MKT 3350 MARKETING SERVICE PRODUCTS (3 credits)**

This elective explores how intangibility forces customers to evaluate service products differently, creating more challenges for marketers. The course is based on the premise that financial benefits reward services that provide value to customers, and develops strategies for creating value.

**Prerequisite(s):** MKT 3310 with a 'C+' or better; GPA of 2.5 or better; or permission of instructor. Not open to non-degree graduate students.

**MKT 3360 DIGITAL MARKETING COMMUNICATIONS (3 credits)**

This course is designed to familiarize students with digital marketing concepts and applications. It provides a detailed understanding of relevant digital channels and platforms that companies use as part of their marketing mix. The course is structured to guide students through paid, earned, and owned digital media as part of a comprehensive digital marketing communications strategy. The course employs a mixture of lecture, discussion, simulation games, and sponsored consulting projects with real-world companies.

**Prerequisite(s):** MKT 3310 with 'C+' or better and GPA of 2.5 or better; or permission of instructor.

**MKT 3370 SOCIAL MEDIA MARKETING (3 credits)**

This course is designed to familiarize students with social media marketing concepts and applications. It provides a detailed understanding of relevant social media channels and platforms that companies use as part of their marketing mix. Students will apply their knowledge from class by completing several in-class exercises as well as graded assignments. The course employs a mixture of lecture, discussion, simulation games, and sponsored consulting projects with real-world companies.

**Prerequisite(s):** Completion of MKT 3310 with a C+ or better.

**MKT 3380 INTERNATIONAL MARKETING (3 credits)**

A study of the processes, procedures, characteristics and environments for goods and services in foreign market places. Reference is drawn to the theories and concepts of domestic marketing to appraise their applicability to international markets. Considerable attention is given to the features of the foreign market environments which both facilitate the marketing processes, inhibit them, and require strategies and tactics of accommodation.

**Prerequisite(s):** MKT 3310 with 'C+' or better; GPA of 2.5 or better.

**MKT 3390 GRAPHIC DESIGN FOR MARKETERS (3 credits)**

The course provides a hands-on introduction to the concepts and tools used in graphic design to create marketing communications. Material and assignments will focus on how design supports marketing communication strategy. Students will learn the principles and vocabulary of design, how to critique graphic design, and how to create basic print materials. Students will learn and practice the skills necessary to communicate with graphic designers and advertising professionals in order to successfully implement marketing strategies.

**Prerequisite(s):** MKT 3310 with 'C+' or better; 2.5 GPA or better.

**MKT 3400 MARKETING INNOVATION (3 credits)**

Product, service, and process innovation are essential drivers of firm performance. However, firms face considerable and complex challenges when bringing innovative ideas to life. For example, what marketing research methods should we employ to uncover vital consumer insights? How do these insights influence the development and launch of new products and services? What differentiated value are we delivering to our consumers? How do we successfully bring this new product or service to market? How does a brand's purpose and personality influence consumers' perceptions, purchase decisions, adoption, and engagement? This course will cover key marketing principles involved in the development and launch of new and innovative products and services - from conception to commercialization. Furthermore, we will explore how new-age technologies impact each stage of the development and launch processes. (Cross-listed with BSAD 8435).

**Prerequisite(s):** MKT 3310 with 'C+' or better; 2.5 GPA or better; or permission of instructor.

**MKT 3410 INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (3 credits)**

Supply chain management is the design and management of business processes needed to turn raw materials from suppliers into products and services that meet the needs of the final customer. The goals of this course center around providing students with the foundations of supply chain management and effectively managing the flow of goods, information, and services to obtain sustainable competitive advantage within an industry. Students will develop critical thinking skills focused on business process analysis and the use of key performance indicators to determine operational efficiencies for all organization levels. (Cross-listed with SCMT 3410, MGMT 3410).

**Prerequisite(s):** Sophomore standing; GPA of 2.0 or better; or by permission of instructor. Not open to non-degree graduate students.

**MKT 3600 BUSINESS ETHICS (3 credits)**

Students will learn about the factors, opportunities and pressures that lead to ethical dilemmas, and will develop their understanding of foundations and processes that encourage and reward ethical decision making and behaviors. Lots of examples, sourced from case studies and current events will be provided. (Cross-listed with BSAD 3600, MGMT 3600).

**Prerequisite(s):** Junior classification (minimum of 58 earned credit hours) with a minimum 2.5 cumulative GPA. Completion of MGMT 3200 or MKT 3200 with a minimum grade of 'C' (2.0). Not open to non-degree graduate students.

**MKT 3610 BUSINESS TO BUSINESS MARKETING (3 credits)**

This course examines the decisions involved in marketing goods and services to the industrial buyer as opposed to the consumer buyer. Buyer motivation, promotion decisions, channel decisions, product development and pricing policies involved in the marketing of industrial goods are considered.

**Prerequisite(s):** MKT 3310 with 'C+' or better; 2.5 GPA or better; or permission of instructor

**MKT 4000 SPECIAL TOPICS IN MARKETING (3 credits)**

This special topics course will address specific topics which will vary by semester and is intended primarily for upper division students who are pursuing a marketing or sales concentration.

**Prerequisite(s):** MKT 3310 plus 6 hours of Marketing, all with 'C+' or better; GPA of 2.5 or better; or permission of instructor.

**MKT 4200 CONSULTATIVE SELLING PRINCIPLES (3 credits)**

The primary focus of the Consultative Selling Principles course is to develop the behaviors, methodologies, principles, and processes required to successfully lead and manage complex selling initiatives to a win-win close. The course examines and applies, through role playing and other activities, the critical relationship building, critical thinking, problem solving, listening and negotiating capabilities which are the foundation skills underlying consultative selling. (Cross-listed with BSAD 8206)

**Prerequisite(s):** MKT 3310 with 'C+' or better; MKT 3100 with C+ or better; GPA of 2.5 or better; or permission of instructor. Not open to non-degree graduate students.

**MKT 4210 SELLING FINANCIAL SERVICES (3 credits)**

Selling Financial Services concentrates on methods to effectively sell services and products in the financial services industry, including the banking, brokerage and insurance sectors. Targeting, initiating, and acquiring client relationships, expanding business opportunities, and maintaining long-term client relationships are the course's focal points. This integrative course is designed to provide students with a basic understanding of the selling profession and sales culture within the financial services industry. (Cross-listed with BSAD 8216, FNBK 4210).

**Prerequisite(s):** MKT 3310 with a C+ or better grade and 2.5 GPA. Not open to non-degree graduate students.

**MKT 4220 GLOBAL STRATEGIC ACCOUNT MANAGEMENT (3 credits)**

Throughout this course, the management of strategic account programs at national, multi-country, and global levels will be addressed. The primary focus of the curriculum is on the critical success factors for driving revenue, sustainable long term-growth and profitability with a base of core strategic buyers. (Cross-listed with BSAD 8226)

**Prerequisite(s):** Senior or graduate student standing and permission of the instructor. Not open to non-degree graduate students.

**MKT 4260 TECHNICAL BUSINESS DEVELOPMENT (3 credits)**

Students will learn how to navigate the four main milestones of the technical sales process: Responding to requests for proposals (RFPs), conducting exploratory customer meetings, submitting RFP responses, and interviewing for projects. The course will broaden understanding of the sales process in technical domains where sales cycles are longer and decision processes are more complex. This class will also emphasize team selling. (Cross-listed with MKT 8266, BSAD 8266).

**Prerequisite(s):** Prerequisite(s): Junior standing; or permission of instructor. Not open to non-degree graduate students.

**MKT 4300 MARKETING MANAGEMENT (3 credits)**

This case study course examines product, price, promotion and channel of distribution policies. Major emphasis is placed on analysis of marketing problems and the facets of making marketing decisions.

**Prerequisite(s):** MKT 3310 with grade of 'C+' or better plus 6 hours of marketing, all with 'C' (2.0) or better, senior standing; GPA of 2.5 or better; or permission of instructor.

**MKT 4320 SALES MANAGEMENT (3 credits)**

The student will be exposed to current research findings in sales management and to business cases and simulations where sales management theories and concepts will be applied. This course will prepare students to develop and implement specific compensation, motivation, and evaluation strategies for managing sales professionals across a wide variety of organizations. (Cross-listed with BSAD 8326).

**Prerequisite(s):** MKT 3310 with 'C+' or better; GPA of 2.5 or better; or permission of instructor. Not open to non-degree graduate students.

**MKT 4340 MARKETING RESEARCH (3 credits)**

Application of analytical tools to marketing problems including markets, products, distribution channels, sales efforts and advertising. Emphasis on planning, investigation, collection, interpretation of data and presentation of results.

**Prerequisite(s):** MKT 3310 with 'C+' or better; BSAD 2130 or BSAD 3140 or BSAD 3160 with 'C' (2.0) or better; GPA of 2.5 or better; or permission of instructor.

**MKT 4360 E-MARKETING (3 credits)**

This course focuses on utilizing the Internet as a marketing platform. Course content includes discussion of how the Internet is used by businesses for designing products, pricing, promotions, distribution, positioning, gathering information, and cultivating relationships with stakeholders. The discussion about the rise of social media, sharing economy, virtual reality devices, and other relevant trends will also be part of the course. (Cross-listed with BSAD 8366).

**Prerequisite(s):** MKT 3310 with 'C+' or better; GPA of 2.5 or better; or permission of instructor. Not open to non-degree graduate students.

**MKT 4370 MARKETING ANALYTICS (3 credits)**

This course focuses on the application of data analytics in marketing decision making (e.g., segmentation, sales forecasting, and resource allocation). Students will learn to apply statistics and econometrics to solve marketing problems. Key topics in this course include marketing data visualization, marketing metrics, descriptive and predictive analytics, and digital marketing analytics. This course takes a very hands-on approach with real-world databases and equips students with tools that can be used immediately on the job. (Cross-listed with BSAD 8396).

**Prerequisite(s):** MKT 3310 with 'C+' or better; BSAD 2130 or BSAD 3140 or BSAD 3160 with 'C' (2.0) or better; GPA of 2.5 or better; or permission of instructor. Not open to non-degree graduate students.

**MKT 4380 INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT (3 credits)**

This course will focus on the strategic procurement of products and services in order to gain a competitive advantage through integrated supply management. Students will learn about strategic supply management, contract negotiation, and supplier quality management. Students will develop an understanding of supplier performance management through the use of supply chain information systems. (Cross-listed with BSAD 8386, HLSC 8386, SCMT 4380, SCMT 8386).

**Prerequisite(s):** SCMT 3410; GPA of 2.5 or better; or by permission of instructor. Not open to non-degree graduate students.

**MKT 4420 BUSINESS DEMOGRAPHICS (3 credits)**

The goal of this course is to develop a demographic perspective in order to assist in understanding the business environment and business policy. How population change impacts consumer markets and all of the functions (for example, accounting, finance and management) that must exist for these markets to perform. Includes a history of population change and policy as well as a view toward international population considerations. (Cross-listed with BSAD 8426).

**Prerequisite(s):** MKT 3310 with 'C+' or better; GPA 2.5 or better, Junior Standing; or permission of instructor. Not open to non-degree graduate students.

**MKT 4500 SPECIAL PROBLEMS IN MARKETING (1-3 credits)**

This course consists of an individual investigation of specific marketing topics under the supervision of a faculty member and could include readings, independent research, and a written research paper.

**Prerequisite(s):** Principles of Marketing (MKT 3310) with minimum C+ or permission of instructor.

**MKT 4510 MARKETING INTERNSHIP (1-3 credits)**

Students engage in part time employment in the marketing discipline to gain relevant business experience and to practice the skills and concepts learned in the classroom. Work assignment must encompass duties related to general marketing or a specialization within the domain (i.e. selling, social media, advertising, market research).

**Prerequisite(s):** MKT 3310 with a C+ or better, a 2.5 GPA, and junior level standing; and permission of instructor.

**MKT 4540 SUPPLY CHAIN MANAGEMENT INTERNSHIP (1-3 credits)**

Students engage in part-time employment in supply chain management to gain relevant business experience and to practice the skills and concepts learned in the classroom. Work assignment must encompass duties related to the field of supply chain management (i.e., purchasing, scheduling, supplier relations, materials management, or logistics). (Cross-listed with SCMT 4540)

**Prerequisite(s):** MKT-MGMT 3410 Sustainable Supply Chain Management and GPA of 2.5 or better; or by permission of the instructor. Not open to non-degree graduate students.

**MKT 4720 INNOVATION VENTURES (3 credits)**

This team-based course provides students with the opportunity to practice the basic tools of business discovery and validation. Concepts and techniques in innovation, entrepreneurship, and strategy will be used to aid students in the venture creation process. Important considerations impacting the viability of the venture post formation will also be explored. Practical real-world experimentation is the central component of the course and will help students to conceive, develop, and launch their own innovative ventures. (Cross-listed with BSAD 8726, ACMP 4720, HCC 8256, ENTR 4720, ENTR 8726, MGMT 4720, MGMT 8726, MKT 8726).

**Prerequisite(s):** ENTR 3710 and junior standing or above or by instructor permission

**MKT 4760 SELLING IN AN ENTREPRENEURIAL CONTEXT (3 credits)**

Successful entrepreneurs are able to identify unmet needs in the marketplace and then design and sell products or services that fulfill those needs. Sales effectiveness is essential for entrepreneurs because they must be able to build sustainable sales pipelines that ensure profitable growth while simultaneously addressing other pressing issues including financing, staffing, and product development. This course will focus on consultative solution-based sales fundamentals that can be applied in an entrepreneurial selling environment. (Cross-listed with ENTR 4760, BSAD 8766)

**Prerequisite(s):** GPA 2.5 or better; MKT 3100 with a "C+" or better; MKT 3310 with a "C+" or better; or permission of instructor. Not open to non-degree graduate students.

**MKT 4800 HONORS STUDIES IN MARKETING (3 credits)**

A comprehensive examination of marketing as it is practiced among firms representing different industrial sectors. Course objectives include individual inquiry, theoretical applications and limitations, and an increased academic understanding of the discipline of marketing. Only grades 'B' and above will be awarded. Students exhibiting performance below the 'B' level will receive an 'F' for the course. Admission to this course is by invitation only.

**Prerequisite(s):** Permission of instructor. Senior standing, 3.2 GPA or above, declared business college specialization in MKT or BFIN or MGMT or communications (journalism, PR or broadcasting). Not open to non-degree graduate students.

## Mathematics (MATH)

### Mathematics Undergraduate Courses

**MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (3 credits)**

This course embraces the visual arts to introduce students to the foundational elements of mathematical and computational thinking. Visual patterns form the basis for explorations in arithmetic and geometric sequences, from which algebraic functions and corresponding functions in computer programs are reasoned.

**Distribution:** Math

**MATH 1130 QUANTITATIVE LITERACY (3 credits)**

Designed to equip students with the mathematical, statistical, and computational skills necessary to explore real-life situations. Students will learn and practice critical-thinking and problem-solving skills needed to use quantitative information to make responsible decisions in a variety of areas such as finance, health, and the environment.

**Distribution:** Math

**MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS (3 credits)**

This course prepares students with the basic mathematical skills required for nursing programs. Topics include: fractions, decimals, percentages, ratios, conversions between measurement systems, dimensional analysis, formulating dosages and flow rates, interpreting drug orders, and nutritional analyses.

**Distribution:** Math

**MATH 1210 INTERMEDIATE ALGEBRA (3 credits)**

This course is designed to prepare students to be successful in MATH 1220, MATH 1300, and STAT 1530. Topics include simplifying mathematical expressions, the properties of equality, solving linear equations in one variable, using linear equations to solve problems, fractions, ratios and proportions, graphing and the rectangular coordinate system, relations and functions, systems of linear equations and inequalities in two variables, polynomial expressions and functions, factoring and solving polynomial equations. Credit earned in MATH 1210 will not count toward degree requirements.

**MATH 1220 COLLEGE ALGEBRA (3 credits)**

This course presents properties of real numbers, linear equations and graphing, systems of equations, linear inequalities, polynomials, algebraic fractions, exponents, logarithms, and an Introduction to Statistics. This course is designed to prepare students to be successful in MATH 1320 or MATH 1370. Students who have passed MATH 1310 with a C- or better should not take this course.

**Prerequisite(s):** Within the last two years: ALEKS score at least 3, ACT Math at least 19, SAT Math at least 460, SAT2016 Math at least 500, Accuplacer at least 3, MATH 1210 C- or better or MATH 1220. Students who passed MATH 1310 (C- or better) should not take MATH 1220.

**Distribution:** Math

**MATH 1300 COLLEGE ALGEBRA WITH SUPPORT (4 credits)**

This course teaches prerequisite material and all College Algebra (MATH 1320) content; it is intended for students who need additional mathematics support. This course will cover polynomial functions, exponential functions, logarithmic functions, and modeling of natural phenomena using these kinds of functions. Discussion of functions will center around four representations: algebraic, graphic, tabular, and verbal. Particular emphasis will be placed on development of covariational reasoning. Support sections will include arithmetic and algebra content necessary to engage with polynomial functions, exponential functions, and logarithmic functions at the College Algebra level, such as properties of real numbers, linear equations, graphing functions, factoring polynomials, and quadratic functions.

**Distribution:** Math

**MATH 1320 COLLEGE ALGEBRA (3 credits)**

This course will cover polynomial functions, rational functions, exponential functions, logarithmic functions, and modeling of natural phenomena using these kinds of functions. Discussion of functions will center around four representations: algebraic, graphic, tabular, and verbal. Particular emphasis will be placed on development of covariational reasoning.

**Prerequisite(s):** One of the following within the last two years: ALEKS score of at least 4, ACT Math at least 22, Math SAT at least 570, Accuplacer score at least 4, MATH 1220 or MATH 1310 each with C- or better, or MATH 1320

**MATH 1330 TRIGONOMETRY (3 credits)**

This course introduces elements of plane trigonometry, including trigonometric and circular functions, inverse trigonometric functions, solutions of triangles, identities and conditional equations, vectors, and conic sections.

**Prerequisite(s):** One of the following within the last two years: ALEKS score at least 5, ACT Math at least 25, Math SAT at least 590, Accuplacer at least 5, MATH 1320 or MATH 1300 with C- or better, or MATH 1330, or permission of instructor

**MATH 1340 ALGEBRA AND TRIGONOMETRY FOR CALCULUS (5 credits)**

A combined algebra and trigonometry course for science and engineering students planning to enroll in MATH 1950. Topics include: systems of equations, polynomials and rational functions, exponential and logarithmic functions, trigonometric functions and their inverses, trigonometric identities and applications, conic sections, and complex numbers. Credit for both MATH 1320/MATH 1324 and MATH 1340, or both MATH 1330 and MATH 1340 will not be given.

**Prerequisite(s):** One of the following within the last two years: ALEKS score of at least 4, ACT Math at least 23, Math SAT at least 540, Math SAT2016 at least 570, Accuplacer at least 5, MATH 1310 or MATH 1220 C- or better, or MATH 1340



**MATH 1370 APPLIED ALGEBRA AND OPTIMIZATION WITH DATA ANALYSIS (3 credits)**

This is an applied algebra course with optimization, teaching the following topics with an emphasis on data analysis and application: algebraic, exponential, and logarithmic functions; derivatives and applications thereof; and data analysis. The course will emphasize data analysis and applications of covered topics in order to demonstrate the relevance of mathematics to solving real-world problems.

**Prerequisite(s):** One of the following within the last two years: ALEKS score 4+, ACT Math sub score 23+, SAT Math 570+, Accuplacer 4+, MATH 1220/MATH 1300/MATH 1320 with C- or better, or MATH 1370, or permission of instructor

**MATH 1930 CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (3 credits)**

Topics covered include functions, limits, derivatives, integrals, and applications. Trigonometry is not required. May not be used as a prerequisite for MATH 1960. Credit will not be granted for both MATH 1930 and 1950.

**Prerequisite(s):** One of the following within the last two years: ALEKS score 5+, ACT Math sub score 25+, Math SAT 590+, Accuplacer score 6+, MATH 1320 or MATH 1300 with C- or better, or MATH 1930, or permission of instructor

**MATH 1940 CALCULUS FOR BIOMEDICINE (5 credits)**

Introductory calculus with an emphasis on dynamical systems analysis applied to biological systems. Topics include differential and integral calculus, elementary chaos theory, discrete modeling, neural networks, and elementary differential equations, population dynamics, and biochemical signal transduction.

**Prerequisite(s):** One of the following within the last two years: ALEKS score at least 5, ACT Math sub score at least 25, Math SAT at least 570, Math SAT2016 at least 590, Accuplacer score at least 6, MATH 1320/MATH 1300 with C- or better; or permission of instructor

**MATH 1950 CALCULUS I (5 credits)**

This is a course in plane analytic geometry emphasizing the study of functions, limits, derivatives and applications, and an introduction to integration.

**Prerequisite(s):** One of the following within last two years: ALEKS score 6+, ACT Math 26+, Math SAT 590+, Math SAT2016 610+, Accuplacer 7+, MATH 1330/MATH 1340 C- or better; or permission of instructor. Prior enrollment in MATH 1950 cannot be used as prerequisite

**MATH 1960 CALCULUS II (4 credits)**

This course introduces applications of integration, techniques of integration, infinite sequences and series, parametric functions, and polar functions. A mathematical software package is introduced, with required assignments.

**Prerequisite(s):** MATH 1950 with a grade of C- or better or permission of instructor.

**MATH 1970 CALCULUS III (4 credits)**

This course presents vector functions, parametric equations, solid analytic geometry, partial differentiation, multiple integration, and an introduction to vector calculus. A mathematical software package is introduced with required assignments.

**Prerequisite(s):** MATH 1960 with a grade of C- or better, or MATH 1970 with a grade of F or better, or permission of instructor.

**MATH 2030 DISCRETE MATHEMATICS (3 credits)**

A foundation course in discrete mathematics for applied disciplines including computer science, computer engineering, or biology. Topics include: logic, sets, functions, induction and recursive definitions, elementary combinatorics, discrete probability, elementary chaos theory, elementary cellular automata, graphs, trees, matrices.

**Prerequisite(s):** MATH 1950 or MATH 1940 or MATH 1930, with a grade of C- or better.

**MATH 2050 APPLIED LINEAR ALGEBRA (3 credits)**

This course presents Matrix algebra, simultaneous equations, vector spaces, with applications of linear algebra and computational considerations. Mathematical software is utilized, with required assignments.

**Prerequisite(s):** MATH 1940 or MATH 1950 with a grade of C- or better

**MATH 2200 MATHEMATICAL COMPUTING I (3 credits)**

This is a first course in mathematical computing. It covers the basic elements of scientific programming in both a computer algebra system and a high-level programming language. Explored are implementation issues, problem description, model building, method development, and solution assessment.

**Prerequisite(s):** MATH 1950

**MATH 2230 INTRODUCTION TO ABSTRACT MATH (3 credits)**

This course provides a transition from the calculus to more abstract mathematics. Topics include logic, sets and functions, an introduction to mathematical proof, mathematical induction, relations. Important prerequisite material for a number of more advanced mathematics courses is studied.

**Prerequisite(s):** MATH 1960 or permission. Credit will not be given for both MATH 2030 and MATH 2230.

**MATH 2350 DIFFERENTIAL EQUATIONS (3 credits)**

Topics include solutions of linear and first-order nonlinear differential equations with applications, higher-order linear differential equations with applications, power series solutions, and Laplace transform methods.

**Prerequisite(s):** MATH 1960 with a grade of C- or better or permission of instructor.

**MATH 3100 APPLIED COMBINATORICS (3 credits)**

Basic counting methods, generating functions, recurrence relations, principle of inclusion-exclusion. Polya's formula. Elements of graph theory, trees and searching network algorithms. (Cross-listed with MATH 8105, CSCI 3100, CSCI 8105).

**Prerequisite(s):** MATH 2030, MATH 2040, MATH 2230, or CSCI 2030 all with a C- or better. Mathematical logic; Set theory; Relations; Functions; Congruences; Inductive and recursive definitions; Discrete probability; sets, graphs, trees, & matrices

**MATH 3200 MATHEMATICAL COMPUTING II (3 credits)**

This course is a second course in mathematical computing. It covers the design and development of algorithms and more advanced elements of programming in a mathematical context. The programming language Python will be used. The programming assignments are primarily based on data science and calculus concepts and are designed to reinforce and deepen the understanding of these concepts.

**Prerequisite(s):** CIST 1400 or MATH 2200, and MATH 1970 (the latter may be taken concurrently) all with a grade of C- or better.

**MATH 2230 INTRODUCTION TO ANALYSIS (3 credits)**

This course provides a theoretical foundation for the concepts of elementary calculus. Topics include real number system, topology of the real line, limits, functions of one variable, continuity, differentiation. (Cross-listed with MATH 8235).

**Prerequisite(s):** MATH 1960 and MATH 2230 each with a grade of C- or better.

**MATH 3250 INTRODUCTION TO NUMERICAL METHODS (3 credits)**

This course emphasizes the implementation of several numerical methods to problems that arise in science and engineering. It involves the application of the computer to solve mathematical problems using the following computational techniques: Taylor Series approximation, numerical differentiation, root-finding methods, interpolation, extrapolation, curve fitting, solution methods for matrix equations, numerical differentiation, numerical integration, and the solution of differential equations. (Cross-listed with MATH 8255).

**Prerequisite(s):** MATH 1960 and MATH 2050 with a C or better, or permission of instructor.



**MATH 3400 THEORY OF INTEREST (3 credits)**

A study of the measurement of interest, annuities, amortization schedules and other financial mathematics topics.

**Prerequisite(s):** MATH 1960 with a grade of C- or higher.

**MATH 3640 MODERN GEOMETRY (3 credits)**

This course will study the modern foundations of Euclidean and Non-Euclidean Geometry. Included will be a study of the principles of axiomatic systems. Euclidean Geometry will be investigated using Hilbert's axioms for Euclidean geometry (or another equivalent Euclidean geometry axiom set). Hyperbolic geometry will be encountered through the models of Klein and Poincare. Neutral geometry with Lambert and Saccheri quadrilaterals will be studied. Finite geometries and projective geometries will also be explored. (Cross-listed with MATH 8645).

**Prerequisite(s):** MATH 2230 with a grade of C- or better.

**MATH 3850 HISTORY OF MATHEMATICS (3 credits)**

An overview of the history of mathematics and famous mathematicians via studying and solving famous mathematical problems, exploring famous mathematical theorems, and studying the biographies of famous mathematicians. (Cross-listed with MATH 8855).

**Prerequisite(s):** MATH 1950 with a grade of C- or higher and one of either MATH 2230 or MTCH 2000 with a grade of C- or higher.

**MATH 4010 INTRODUCTION TO THE THEORY OF RECURSIVE FUNCTIONS (3 credits)**

This is a proof-oriented course presenting the foundations of Recursion Theory. We present the definition and properties of the class of primitive recursive functions, study the formal models of computation, and investigate partially computable functions, universal programs. We prove Rice's Theorem, the Recursion Theorem, develop the arithmetic hierarchy, demonstrate Post's theorem. Introduction to the formal theories of computability and complexity is also given. (Cross-listed with CSCI 4010, CSCI 8016, MATH 8016).

**Prerequisite(s):** MATH 2230 or MATH 2030 with a C- or better or CSCI 3660 with a C- or better or instructor's permission.

**MATH 4030 MODERN ALGEBRA (3 credits)**

Algebra is the study of mathematical manipulations that preserve something (like equality - when solving equations). The areas in which Algebra finds application are quite diverse, from Ancient Greek Geometry through to Modern Information Protection and Security (error correcting codes, data compression, and cryptography). This course begins with topics that should be familiar (such as ruler-and-compass constructions, and modular arithmetic) and builds upon this foundation through polynomial rings up to finite fields and basic group theory. (Cross-listed with MATH 8036).

**Prerequisite(s):** MATH 2230 with a C- or better or MATH 2030 with a C- or better

**MATH 4050 LINEAR ALGEBRA (3 credits)**

Linear algebra is extensively utilized in the mathematical modeling of many natural phenomena. Many scientific and engineering disciplines, such as data science, chemical engineering and biology, make extensive use of the theory and techniques commonly present in basic to advanced linear algebra courses. The goal of this course is to help students to grasp a solid theoretical understanding of vectors, vector spaces, inner product spaces, linear transformations, eigenvalues, canonical forms, complex vectors, matrices, and orthogonality. By going through the materials in a mathematically rigorous way, students will develop deeper and more accurate intuitions of the basic concepts in linear algebra. Consequently, the applications of linear algebra will become much more transparent. (Cross-listed with MATH 8056).

**Prerequisite(s):** MATH 2050 with a grade of C- or better; MATH 2030 or MATH 2230 or equivalent with a grade of C- or better; or permission

**MATH 4110 ABSTRACT ALGEBRA I (3 credits)**

An introduction to group theory. Various classes of group are studied: symmetric groups, abelian, cyclic, and permutation groups. Basic tools are developed and used: subgroups, normal subgroups, cosets, the Lagrange theorem, group homomorphisms, quotient groups, direct products, and group actions on a set. The course culminates with the Sylow theorems in finite group theory. The theory is illustrated with examples from geometry, linear algebra, number theory, crystallography, and combinatorics. (Cross-listed with MATH 8116).

**Prerequisite(s):** MATH 4050/MATH 8056 with a C- or better or MATH 4560/MATH 8566 with a C- or better or permission of instructor

**MATH 4120 ABSTRACT ALGEBRA II (3 credits)**

An introduction to ring and field theory. Various classes of commutative rings are considered including polynomial rings, and the Gaussian integers. Examples of fields include finite fields and various extensions of the rational numbers. Concepts such as that of an ideal, integral domain, characteristic and extension field are studied. The course culminates with an introduction to Galois theory. Applications include the resolution of two classical problems: the impossibility of angle-trisection and the general unsolvability of polynomial equations of degree 5 or higher. (Cross-listed with MATH 8126).

**Prerequisite(s):** MATH 4110/MATH 8116 with a C- or better or permission of instructor

**MATH 4150 GRAPH THEORY & APPLICATIONS (3 credits)**

Introduction to graph theory. Representations of graphs and graph isomorphism. Trees as a special case of graphs. Connectivity, covering, matching and coloring in graphs. Directed graphs and planar graphs. Applications of graph theory in several fields such as networks, social sciences, VLSI, chemistry and parallel processing. (Cross-listed with MATH 8156, CSCI 4150, CSCI 8156).

**Prerequisite(s):** CSCI 2030 with a C- or better, or MATH 2030 with a C- or better, or MATH 2230 with a C- or better, or permission of instructor.

**MATH 4200 NUMERICAL ANALYSIS (3 credits)**

This course involves solving nonlinear algebraic equations and systems of equations, interpolation and polynomial approximation, numerical differentiation and integration, numerical solutions to ordinary differential equations, analysis of algorithms and errors, and computational efficiency. (Cross-listed with MATH 8206, CSCI 4200, CSCI 8206).

**Prerequisite(s):** MATH 1970 and MATH 2050 and MATH 2350 with a C- or better or permission of instructor.

**MATH 4230 MATHEMATICAL ANALYSIS I (3 credits)**

Provides a theoretical foundation for the concepts of classical calculus. Topics include ordered fields, the real and complex number system, basic metric space topology, numerical sequences and series, limits and continuity in metric spaces, monotonic functions, differentiation, (functions of several variables included). (Cross-listed with MATH 8236).

**Prerequisite(s):** MATH 3230/MATH 8235 with a grade of C- or better.

**MATH 4240 MATHEMATICAL ANALYSIS II (3 credits)**

Provides a theoretical foundation for the concepts of classical Calculus (vector calculus included). Topics include sequences and series of functions, uniform convergence, power series, Fourier series, multivariable real differential and integral calculus, the Implicit Function Theorem, integration of different forms, and the important formulas, connecting those integrals, due to: Green, Gauss, Riemann, and Ostrogradski. (Cross-listed with MATH 8246).

**Prerequisite(s):** MATH 4230/MATH 8236 with a grade of C- or better.

**MATH 4270 COMPLEX ANALYSIS (3 credits)**

This course is an introduction to the theory of functions of a complex variable, a fundamental area of mathematics with multiple applications to science and engineering. Topics include the field of complex numbers, complex differentiation, the complex contour integral and Cauchy's integral formula, Taylor expansions and analytic functions, conformal mapping and Riemann's conformal equivalence theorem, residue theory and Laurent series, harmonic functions, and applications. (Cross-listed with MATH 8276).

**Prerequisite(s):** MATH 3230/MATH 8235 with a grade of C- or better or permission of the instructor.

**MATH 4300 DETERMINISTIC OPERATIONS RESEARCH MODELS (3 credits)**

This is a survey course of deterministic operations research models and algorithms. Topics include linear programming, network programming, and integer programming. (Cross-listed with CSCI 4300, CSCI 8306, MATH 8306).

**Prerequisite(s):** MATH 2050 with a C- or better or permission of instructor.

**MATH 4310 PROBABILISTIC OPERATIONS RESEARCH MODELS (3 credits)**

This is a survey course of probabilistic operations, research models and algorithms. Topics include Markov chains, queueing theory, inventory models, forecasting, and simulation. (Cross-listed with CSCI 4310, CSCI 8316, MATH 8316).

**Prerequisite(s):** MATH 2050 and either MATH 4740 or MATH 8746 or STAT 3800 or STAT 8805 all with a C- or better or permission of instructor.

**MATH 4320 COMPUTATIONAL OPERATIONS RESEARCH (3 credits)**

Survey of computational methods used in the solution of operations research problems. Some topics may include scripting to guide optimization software, constraint programming, heuristics and metaheuristics for optimization, basic machine learning algorithms, and simulation. (Cross-listed with MATH 8326, CSCI 4320, CSCI 8326).

**Prerequisite(s):** MATH 3200 or CSCI 1620, and MATH 4300 each with a grade of C- or better or permission of instructor.

**MATH 4330 INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (3 credits)**

This course introduces the basic methods of PDEs guided by applications in physics and engineering. The main topics to be covered include The Linear First order PDEs, Transport equations, Characteristics, Classification of PDEs, Separation of variables, Heat conduction, vibrating membranes, boundary value problems, Maximum principle, Sturm-Liouville problems, Fourier series, Fourier integrals, Harmonic functions, Legendre polynomials, Distributions, Green's functions. (Cross-listed with MATH 8336).

**Prerequisite(s):** MATH 1970 with a C- or better and MATH 2350 with a C- or better, or permission of instructor; MATH 2050 recommended, not required.

**MATH 4350 ORDINARY DIFFERENTIAL EQUATIONS (3 credits)**

This course covers the theory of initial-, boundary-, and eigenvalue problems, existence theorems, real and complex linear systems of differential equations, and stability theory. There will be a strong emphasis on methods for finding solutions of initial and boundary value problems and analyzing properties of these solutions for various ordinary differential equations. (Cross-listed with MATH 8356).

**Prerequisite(s):** MATH 1970 with a C- or better, MATH 2050 with a C- or better, and MATH 2350 with a C-, or better or instructor's permission.

**MATH 4400 THE FINITE ELEMENT METHOD (3 credits)**

Introduction to finite elements methods for solving ordinary and partial differential equations. Theoretical foundations of finite element methods for boundary value problems, approximation by piecewise polynomial functions, variation formulation of partial differential equations, basic error estimates. The Rayleigh-Ritz-Galerkin method, convergence of approximations, time-dependent problems, error analysis, discretization and computer implementation, applications to problems in elasticity, heat transfer, and fluid mechanics. (Cross-listed with MATH 8406).

**Prerequisite(s):** MATH 1970, MATH 2050 and MATH 2350 all with a C- or better or instructor permission. MATH 3300/MATH 8305 and MATH 4330/MATH 8336 recommended. Students should be able to use a programming language (ie MATLAB) to complete computational assignments

**MATH 4450 INTRODUCTION TO MACHINE LEARNING AND DATA MINING (3 credits)**

This is an introduction to machine learning and data mining which covers the following topics with an emphasis on mathematical and statistical analysis in supervised learning. Topics include machine learning workflow, evaluation metrics, validation approaches, classification models including logistic regression, decision tree, boosting, random forest, support vector machines, neural networks, Bayesian methods, etc. If time allows, text mining and unsupervised learning topics will also be introduced in the course. Statistical software will be used. (Cross-listed with MATH 8456, STAT 4450, STAT 8456)

**Prerequisite(s):** MATH 4740/8746 with a C- or better or STAT 3800/8805 with a C- or better or permission of instructor.

**MATH 4560 NUMBER THEORY & CRYPTOGRAPHY (3 credits)**

An overview of one of the many beautiful areas of mathematics and its modern application to secure communication. The course is ideal for any student who wants a taste of mathematics outside of, or in addition to, the calculus sequence. Topics to be covered include: prime numbers, congruences, perfect numbers, primitive roots, quadratic reciprocity, sums of squares, and Diophantine equations. Applications include error-correcting codes, symmetric and public key cryptography, secret sharing, and zero knowledge proofs. (Cross-listed with MATH 8566, CSCI 4560, CSCI 8566).

**Prerequisite(s):** MATH 2230 with a C- or better or MATH 2030 with a C- or better or CSCI 2030 with a C- or better or permission of instructor

**MATH 4610 INTRODUCTION TO TOPOLOGY (3 credits)**

This is a proof-oriented course presenting the foundations of topology. Metric spaces and general topological spaces are introduced. The course explores the properties of connectedness, compactness and completeness, and operations of Tychonoff product and hyperspace. (Cross-listed with MATH 8616).

**Prerequisite(s):** MATH 3230 with a C- or better or permission of instructor.

**MATH 4620 ITERATED FUNCTION SYSTEMS AND FRACTALS (3 credits)**

This is a proof-oriented course presenting the foundations of fractal geometry. It introduces students to the beauty, magic, and applications of fractals and iterated function systems, with emphasis on the mathematics behind it all. Topics range from contractions on hyperspaces and their fixed points to fractal dimensions to Julia and Mandelbrot sets. (Cross-listed with MATH 8626).

**Prerequisite(s):** MATH 4610 with a C- or better or permission of instructor.

**MATH 4660 AUTOMATA, COMPUTABILITY, AND FORMAL LANGUAGES (3 credits)**

This course presents a sampling of several important areas of theoretical computer science. Definition of formal models of computation and important properties of such models, including finite automata and Turing machines. Definition and important properties of formal grammars and their languages. Introduction to the formal theories of computability and complexity. (Cross-listed with CSCI 4660, CSCI 8666, MATH 8666)

**Prerequisite(s):** MATH 2030. Recommended: CSCI 3320/CSCI 8325.

**MATH 4740 INTRODUCTION TO PROBABILITY AND STATISTICS I (3 credits)**

A mathematical introduction to probability theory including the properties of probability; probability distributions; expected values and moments; specific discrete and continuous distributions; and transformations of random variables. (Cross-listed with MATH 8746).

**Prerequisite(s):** MATH 1970 and either MATH 2230 or MATH 2030 all with a grade of C- or better or permission of instructor.

**MATH 4750 INTRODUCTION TO PROBABILITY AND STATISTICS II (3 credits)**

Theory and methods of statistical inference including sampling distributions, estimators, estimation, and statistical hypotheses. (Cross-listed with MATH 8756).

**Prerequisite(s):** MATH 4740/MATH 8746 with a grade of C- or better.

**MATH 4760 TOPICS IN APPLIED MATHEMATICS (3 credits)**

Selection of such topics such as dynamical systems and chaos, Boolean networks, modeling of discrete or continuous systems, matrix theory, difference equations, information theory, discrete events simulation and other approved by Upper Curriculum Committee. (Cross-listed with MATH 8766).

**Prerequisite(s):** MATH 3100/CSCI 3100 with a grade of C- or better, or permission of instructor.

**MATH 4900 INDEPENDENT STUDIES (1-3 credits)**

A variable credit course for the junior or senior who will benefit from independent reading assignments and research-type problems. As independent study courses are intended to enrich a student's regular academic program, they may not normally be taken as substitutes for scheduled classroom courses of the same nature. May be repeated for credit, up to six hours, under a different topic.

**Prerequisite(s):** Permission of the Upper Curriculum Committee of the Mathematics Department via submission of the Undergraduate Independent Study Form available on the Mathematics website.

**MATH 4950 TOPICS IN THEORETICAL MATHEMATICS (3 credits)**

This course introduces students to a specialized subject matter in the areas of theoretical mathematics not covered in existing courses. The course may be repeated for different topics up to a maximum of six credit hours. The specific topics will vary, depending upon when the course is offered. One example of a course is Axiomatic Set Theory. (Cross-listed with MATH 8956).

**Prerequisite(s):** Permission of Instructor.

**MATH 4970 SEMINAR IN APPLIED MATHEMATICS (3 credits)**

A seminar in Applied Mathematics, where the students would read and present research in applied math and write their exposition of those topics.

**Prerequisite(s):** MATH 3100/CSCI 3100 with a grade of C- or better, or permission of instructor.

**MATH 4980 SEMINAR (3 credits)**

A seminar in mathematics. This course introduces students to an important form of mathematical activity and culture, where a specialized mathematical subject matter (not covered in typical courses) is studied and discussed in a collaborative setting. The course may be repeated for different topics up to a maximum of six credit hours. The specific topics will vary, depending upon when the course is offered. One example of a seminar topic is Current Trends in Set Theory of the Reals.

**Prerequisite(s):** Permission of instructor.

# Mathematics for Teachers (MTCH)

## Mathematics for Teachers Undergraduate Courses

**MTCH 2000 MATHEMATICS FOR ELEMENTARY TEACHERS I (3 credits)**

This course builds the conceptual underpinnings behind the arithmetical reasoning typically taught in school curriculum. Topics include addition, subtraction, and multiplication of whole numbers and of rational numbers. The course aims to help students understand not just how to solve mathematical problems from a variety of approaches, but to understand the reasoning that make the approaches valid. The course is particularly useful for students who are planning on teaching mathematics at the K-6 level.

**Prerequisite(s):** Prerequisite(s): A grade of C or better in one of TED 2060, TED 2100, TED 2200, or TED 2250, and one of the following: A grade of C or better in MATH/STAT 1100 or above, ACT Math Sub-Score at least 23, or SAT Math Sub-Score at least 570.

**MTCH 2020 NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION (3 credits)**

The course covers the following major concepts: standard algorithms for Arithmetic with rational numbers, proportional reasoning, number theory topics in K-8, beginning Algebra concepts, and beginning Geometry.

**Prerequisite(s):** TED 2100 (EDUC 2020) or TED 2200 (EDUC 2030) each with a C or better and College of Education major and MATH 1950 with a C or better. Not open to non-degree graduate students.

**MTCH 3000 MATHEMATICS FOR ELEMENTARY TEACHERS II (3 credits)**

This course develops the numerical, geometric, and algebraic reasoning taught in K-6 curriculum for future teachers. The course develops students' understanding mathematics concepts from multiple representations including place value representations, base-ten models, area models, number line models, and set models. The course also expands students' understanding of connections between these representations, the meaning of the whole numbers, rational numbers, and integer; and the common operations' algorithms and properties. The course also makes connections to early algebraic reasoning, number theory, and problem solving.

**Prerequisite(s):** MTCH 2000 with a grade of C or better.

# Mechanical Engineering (MECH)

## Mechanical Engineering Undergraduate Courses

**MECH 130 INTRODUCTION TO CAD (3 credits)**

Principles and accepted practices of geometric design. Computer generation of 2D and 3D models for mechanical systems. Introduction to engineering design practices such as specifications, dimensioning and tolerancing.

**MECH 200 ENGINEERING THERMODYNAMICS (3 credits)**

First and Second Laws of Thermodynamics, properties of gases and vapors, and cycles. Sources of energy and its conversion to work.

**Prerequisite(s):** MECH 223. Not open to non-degree graduate students.

**MECH 220 STATICS (3 credits)**

Fundamental concepts, equilibrium of force systems, analysis of simple frames and trusses. Centroid and moments of inertia and friction.

**Prerequisite(s):** MATH 1950

**MECH 223 ENGINEERING STATICS (3 credits)**

The action of forces on engineering structures and machines. Force systems, static equilibrium of frames and machines. Friction, center of gravity, moment of inertia, vector algebra.

**Prerequisite(s):** MATH 1960 with grade of C or better and PHYS 2110 with grade of C or better

**MECH 324 STRENGTH OF MATERIALS (3 credits)**

Stress and strain analysis in elastic materials. Use of properties of materials in the analysis and design of welded and riveted connections, statically determinate and indeterminate flexure members, columns. Combined stresses, axial, eccentric and torsional loading. Observations of laboratory tests for axially loaded specimens. Introduction to shear and moment diagrams.

**Prerequisite(s):** MECH 220

**MECH 325 MECHANICS OF ELASTIC BODIES (3 credits)**

Concept of stress and strain considering axial, torsional and bending forces. Shear and moments. Introduction to combined stresses and column theory.

**Prerequisite(s):** MECH 223 (grade of C or better), and MATH 1970

**MECH 373 ENGINEERING DYNAMICS (3 credits)**

A study of force action related to displacement, velocity and acceleration of rigid bodies. Kinematics of plane motion, kinetics of translation and rotation. Mass moment of inertia, vibration, work, energy and power, impulse and momentum.

**Prerequisite(s):** MECH 223 (grade of C or better), and MATH 1970

**MECH 399 UNDERGRADUATE RESEARCH AND THESIS (1-5 credits)**

Engineering design or laboratory investigation that an undergraduate is qualified to undertake.

**Prerequisite(s):** Not open to non-degree graduate students.

**MECH 491 SPECIAL TOPICS IN ENGINEERING MECHANICS (1-6 credits)**

Treatment of special topics in engineering mechanics by experimental, computational and/or theoretical methods. Topics will vary from term to term. (Cross-listed with MECH 891).

**MECH 498 RESEARCH (0-6 credits)**

Faculty-supervised research. (Cross-listed with MECH 898).

**MECH 891 SPECIAL TOPICS IN ENGINEERING MECHANICS (1-6 credits)**

Treatment of special topics in engineering mechanics by experimental, computational and/or theoretical methods. Topics will vary from term to term. (Cross-listed with MECH 491).

**MECH 898 RESEARCH (0-6 credits)**

Faculty-supervised research. (Cross-listed with MECH 498).

**MECH 999 DOCTORAL DISSERTATION (1-24 credits)**

Doctoral dissertation

**Prerequisite(s):** Admission to doctoral degree program and permission of supervisory committee chair.

## Medical Humanities (MEDH)

### Medical Humanities Undergraduate Courses

**MEDH 1000 INTRODUCTION TO MEDICAL HUMANITIES (3 credits)**

This is an interdisciplinary survey course in Medical Humanities. It focuses on the contributions and perspectives of arts and humanities in providing a broad and culturally diverse understanding of health, illness, healing, and medicine.

**Distribution:** Humanities and Fine Arts General Education course

**MEDH 2010 SYMBOLIC LOGIC (3 credits)**

A first course in symbolic logic designed to introduce students to formal systems of sentential logic and predicate logic. The course explores the nature of both syntax (the formal structure of elements of language) and semantics (interpretive relations between language and subject matter including notions such as truth and reference). Students learn how to translate between English and formal languages, how to construct truth-tables and interpretations to test for key semantic properties, and how to construct derivations. In addition, students will consider the nature and relationships between important logical properties and explore foundational issues in logical metatheory. Throughout the course, students will encounter broad philosophical themes such as the purpose of language, constraints on translation, and nature of meaning itself. (The study of logic is also excellent preparation for the LSAT and the reasoning portions of other examinations for graduate study.) (Cross-listed with PHIL 2010).

**MEDH 2030 HISTORY OF MEDICINE: FROM ANTIQUITY TO THE PRESENT (3 credits)**

This course will cover the history of medicine and medical practices from the earliest civilizations to the present. In addition to this chronological scope, the course will also examine medical practices in cultures from across the world. (Cross-listed with HIST 2030).

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**MEDH 2060 ART AND SCIENCE OF MEDICAL DECISION-MAKING (3 credits)**

The course explores multiple facets of medical decision-making, including the perspective of the patient, the family, and the healthcare provider. Topics include basic anatomy and medical terminology, which will be used to understand decision-making in the context of the provider. Students use literature and other records to generate and critically evaluate clinical decisions. The course does not satisfy requirements for degree programs in the Department of Biology minor, BA, BS in Biology; BS in Biotechnology. (Cross-listed with BIOL 2060).

**Prerequisite(s):** BIOL 1060 or concurrent.

**MEDH 2100 EXPLORING MUSIC THERAPY AND ADAPTIVE MUSIC THERAPY (3 credits)**

An exploratory introduction to music therapy and adaptive music in the rehabilitation and reorganization of human beings into social life, health, and wellbeing. A survey of the history of music therapy is included and with the processes and principles used by practicing music therapists. (Cross-listed with MUS 2100).

**Prerequisite(s):** Not open to non-degree graduate students.

**MEDH 2300 BIOMEDICAL ETHICS (3 credits)**

In the rapidly evolving fields of medicine and healthcare, ethical considerations play an ever-increasing role. This course is designed to equip students with the conceptual tools necessary for ethical reasoning and decision-making in medical contexts. This course investigates critical issues such as informed consent, end-of-life decisions, reproductive ethics, genetic testing, and research ethics. Ideal for students thinking about a career in healthcare, philosophy majors, medical humanities majors, or anyone interested in grappling with the complex ethical questions that accompany advancements in biomedical science and healthcare practice. (Cross-listed with PHIL 2300).

**MEDH 3000 MEDICAL HUMANITIES COMMONS (3 credits)**

A multidisciplinary study of a health-related topic from the perspective of medical humanities. Each semester the course will focus on a different topic or problem for exploration and inquiry. The course topic or problem is examined using disciplinary perspectives, interdisciplinary intersections, and translational opportunities.

**Prerequisite(s):** MEDH 1000 or Permission of the instructor.



**MEDH 3440 EXPLORING ART THERAPY (3 credits)**

This course provides an overview of the field of art therapy and the use of therapeutic art. Topics covered include: The historical use of art as healing across cultures, the contemporary use of art therapy with various populations and settings; an introduction to the theories, techniques; and the profession of art therapy. Students participate in representative art therapy activities, but previous art experience is neither required nor expected. This course does not qualify participants to practice art therapy but will provide information on its safe and effective utilization by health professionals. (Cross-listed with ART 3440, THEA 3440, WRWS 3440).

**MEDH 3450 PHILOSOPHY OF MEDICINE (3 credits)**

This course considers a range of philosophical questions raised by and within the practice of medicine. The course begins with a conceptual investigation of the meaning of "health" from "illness." Is the classification of individuals as healthy or ill an objective, scientific matter? Or is it instead a matter of social and ethical values? What follows from answering this question one way, versus another? This introduction forms the backdrop against which we move on to investigate a range of further topics. Examples of some of the topics that may be covered include: medical and social models of disability; the role morality of doctors and other medical providers; abortion, euthanasia, and conscientious objection in the healthcare professions; health measurement and quality of life; "death panels" and health resource rationing; conditions on appropriately voluntary and informed consent to medical procedures; and the ethics of biomedical research. (Cross-listed with PHIL 3450).

**Prerequisite(s):** 6 hours of Philosophy OR Sophomore status OR permission of the instructor

**MEDH 4000 TOPICS IN MEDICAL HUMANITIES (3 credits)**

This course introduces students to a specialized subject matter in the disciplines of medical humanities not covered in existing courses. This course may be repeated for different topics up to a maximum of six credit hours. (Cross-listed with MEDH 8006).

**Prerequisite(s):** Junior standing or the permission of the instructor.

**MEDH 4280 CLINICAL ETHNOGRAPHY (3 credits)**

Using ethnographic texts, this course explores the clinical world from an anthropological perspective. Students will use anthropological theories and methods to learn about cultures of medical practices, diverse health professions, the contexts of health care delivery, and the structural, cultural, and historical forces that influence the practice of healthcare in the U.S. and cross-culturally. (Cross-listed with ANTH 8286, ANTH 4280).

**Prerequisite(s):** ANTH 1050 or MEDH 1000 or permission of the instructor.

**MEDH 4290 DRUG USE, ADDICTION, & CULTURE (3 credits)**

What does "addiction" and its treatment look like in different cultures? How do social practices and cultural values shape drug use and addiction? Why do some people become addicted to drugs and others don't? This course examines drug use and addiction cross-culturally. Using anthropological theories and methods, we will explore: definitions of addiction across time and place; drug use and addiction in relation to social inequalities; interventions targeting drug use and the assumptions underlying them; and lived experiences of drug use and addiction. We will also consider the implications of these issues for healthcare, policy, and social justice in the context of contemporary problems such as the rise in opioid overdose in the U.S. (Cross-listed with ANTH 8296, ANTH 4290)

**Prerequisite(s):** ANTH 1050, MEDH 1000, or permission of the instructor

**MEDH 4900 CAPSTONE IN MEDICAL HUMANITIES (3 credits)**

In this capstone course for students majoring in Medical Humanities, students will curate and complete their portfolio of educational experiences in the discipline. To integrate and apply their previous course work and experience, students will participate in a community-focused medical humanities project.

**Prerequisite(s):** Senior standing (or students in junior standing with permission from the instructor) and MEDH 1000, MEDH 3000 and a writing in the discipline course approved for the major. Not open to non-degree graduate students.

**MEDH 4940 PUBLISHING THE LINDEN REVIEW (3 credits)**

This course will offer students an experiential learning opportunity within the publishing field. Students will work as an editorial team advised by their instructor to publish a biannual, international, online literary journal named The Linden Review. The Linden Review's mission is to publish high-quality creative nonfiction and book reviews that investigate the complexities of the word health. Health will be defined broadly as a deep understanding and appreciation of bodily, emotional, spiritual, social, political, and environmental well-being. (Cross-listed with ENGL 8946, ENGL 4940).

**Prerequisite(s):** Prerequisite: ENGL 1160 or equivalent

**MEDH 4950 BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM (3 credits)**

Course explores the impact of war on combatants, their families and communities as represented in literary fiction, film, historical documentation, first-person accounts, and other texts written in or translated to English. (Cross-listed with ENGL 8956, ENGL 4950).

**Prerequisite(s):** ENGL 1160 prerequisite

**MEDH 4990 INDEPENDENT STUDY IN MEDICAL HUMANITIES (1-3 credits)**

This course is guided reading or independent research in special topics in Medical Humanities under the supervision of a member of the Medical Humanities faculty. This course is designed primarily for the student interested in topics not currently available in the program offerings and who has demonstrated ability to work independently. May be repeated once for credit. (Cross-listed with MEDH 8996).

**Prerequisite(s):** Junior standing or permission of the instructor. Not open to non-degree graduate students.

## Military Science (MILS)

### Military Science Undergraduate Courses

**MILS 1000 LEADERSHIP LABORATORY (0 credits)**

Leadership Laboratory provides basic and advanced military leadership experience in military courtesy, drill and ceremonies, and practical application of classroom taught subjects. Functions and responsibilities of leadership positions are developed through cadet staff actions and command positions. Leadership Laboratory meets Mondays through Fridays from 1530-1730 at the Military Science Building or various training locations in the Omaha Metro area. All military science students must register for MILS 1000.

**MILS 1010 LEADERSHIP AND PERSONAL DEVELOPMENT (2 credits)**

Examines the role of the commissioned officer in the U.S. Army. Discussion focuses on the role and organization of the Army, the military profession, general leadership, role of the non-commissioned officer and officer, customs of the service, military pay and benefits, career opportunities, and personal development.

**MILS 1020 INTRODUCTION TO TACTICAL LEADERSHIP (2 credits)**

Focuses on the relationship between leadership and personal development. Also introduces basic soldier skills, to include land navigation and map reading.

**MILS 2000 LEADERSHIP LABORATORY (0 credits)**

Leadership Laboratory provides basic and advanced military leadership experience in military courtesy, drill and ceremonies, and practical application of classroom taught subjects. Functions and responsibilities of leadership positions are developed through cadet staff actions and command positions. Leadership Laboratory meets Mondays through Fridays from 1530-1730 at the Military Science Building or various training locations in the Omaha Metro area. All military science students must register for MILS 1000.



**MILS 2010 INNOVATIVE TEAM LEADERSHIP (2 credits)**

Develops student leadership and critical individual skills. Training is basic in nature and includes leadership techniques, written and oral communication, rifle marksmanship, fundamentals of land navigation, and physical fitness.

**Prerequisite(s):** MILS 1010 and MILS 1020.

**MILS 2020 UNITED STATES MILITARY HISTORY (3 credits)**

This course will introduce students to the history of the American Military establishment and its relationships to American society from colonial times to the present. Students will become acquainted with the evolution of warfare, military theory and the military profession, with particular emphasis on the place of military institutions in society, so as to develop a sense of historical awareness.

**MILS 2050 BASIC CAMP (3 credits)**

Six weeks of training at Fort Knox, Kentucky. Travel pay and salary stipend provided through the Department of Military Science. The student is not obligated to any military service as a result of attending Training Camp. Camp graduates are eligible to enroll in Advanced Military Science courses and compete for two-year military science scholarships. This course is designed for those entering the ROTC Program with no prior military service and will be Academic Juniors beginning in the Fall after Basic Camp completion.

**Prerequisite(s):** Graduate of MS 1000-3000 or Army Basic Training

**MILS 2120 FOUNDATIONS OF TACTICAL LEADERSHIP (2 credits)**

Continues the development of student leadership and critical individual military skills. Training focuses on advanced military skills and includes orienteering, field survival skills, operation and training.

**Prerequisite(s):** MILS 2010

**MILS 2130 INNOVATIVE TEAM LEADERSHIP (2 credits)**

Designed to develop leadership and critical individual skills. Training is basic in nature and includes leadership techniques, written and oral communication, rifle marksmanship, fundamentals of land navigation, and physical fitness.

**Prerequisite(s):** MILS 1030. Not open to non-degree graduate students.

**MILS 3000 LEADERSHIP LABORATORY (0 credits)**

Leadership Laboratory provides basic and advanced military leadership experience in military courtesy, drill and ceremonies, and practical application of classroom taught subjects. Functions and responsibilities of leadership positions are developed through cadet staff actions and command positions. Leadership Laboratory meets Mondays through Fridays from 1530-1730 at the Military Science Building or various training locations in the Omaha Metro. All military science students must register for MILS 1000.

**MILS 3010 ADAPTIVE TACTICAL LEADERSHIP (3 credits)**

Students learn the fundamentals of land navigation, the role and functions of a military line and staff organization, the role of the non-commissioned officer, training management, how to prepare military correspondence, how to conduct oral presentations, and how to arrange and conduct meetings and conferences. Includes physical training.

**Prerequisite(s):** Department approval and enrollment in MILS 3000.

**MILS 3020 LEADERSHIP IN A CHANGING ENVIRONMENT (3 credits)**

Students learn the fundamentals of small unit leadership skills and tactics, how to conduct personal, performance and discipline counseling, and examine leadership case studies in detail. Includes physical training.

**Prerequisite(s):** Department approval and enrollment in MILS 1000.

**MILS 3070 ADVANCE CAMP (3 credits)**

The ROTC cadet attends six weeks of intensive leadership and management training. The training is conducted during the summer months at Fort Knox, KY. The student's ability to lead his unit and to plan and conduct small unit operations is thoroughly evaluated. Travel pay and salary stipend are provided through the Army.

**Prerequisite(s):** MILS 3010 and MILS 3020

**MILS 4000 LEADERSHIP LABORATORY (1 credit)**

Leadership Laboratory provides basic and advanced military leadership experience in military courtesy, drill and ceremonies, and practical application of classroom taught subjects. Functions and responsibilities of leadership positions are developed through cadet staff actions and command positions. Leadership Laboratory meets Mondays through Fridays from 1530-1730 at the Military Science Building or various training locations in the Omaha Metro area.

**MILS 4010 DEVELOPING ADAPTIVE LEADERS (2 credits)**

Leadership seminar on military ethics, ethical reasoning, decision making and value clarification. Contemporary problems and ethical issues are discussed using the case study method. Entering a new organization, communications and human relations skills, the importance of power and influence are learned.

**Prerequisite(s):** Department approval and enrollment in MILS 4000.

**MILS 4020 LEADERSHIP IN A COMPLEX WORLD (2 credits)**

Develops military management skills by providing a working knowledge of the Army personnel management system, the military justice system, the Army logistical system and post and installation support agencies. The focus of this course is to provide an understanding of basic leadership and management skills required by newly commissioned officers.

**Prerequisite(s):** Department approval and enrollment in MILS 4000.

**MILS 4030 DIRECTED INDEPENDENT READINGS (1-3 credits)**

A variable topic course in Military Science designed to consider an issue or field of interest that relates to the military establishment. Student will read and report on military related books. Student should contact designated faculty member for specific course requirement prior to registration.

**Prerequisite(s):** Permission of instructor.

**MILS 4040 DIRECTED INDEPENDENT STUDIES (1-3 credits)**

A variable credit course in Military Science designed to consider an issue or field of interest that relates to the military establishment. Student should contact designated faculty member for specific course requirement prior to registration.

**Prerequisite(s):** Permission of instructor.

## Multidisciplinary Studies (MLTI)

### Multidisciplinary Studies Undergraduate Courses

**MLTI 3000 MULTIDISCIPLINARY FOUNDATIONS SEMINAR (3 credits)**

A foundational course for the Bachelor of Multidisciplinary Studies degree. Students explore the requirements, goals, and objectives of the program as well as gain an understanding of emotional intelligence capabilities.

**Prerequisite(s):** Not open to non-degree graduate students.

**MLTI 4000 MULTIDISCIPLINARY CAPSTONE SEMINAR (3 credits)**

This capstone course engages Bachelor of Multidisciplinary Studies (BMS) students with significant themes or topics around a real-world issue or problem. The capstone requires the development of a substantial final project that combines learning from multiple sources and perspectives, including general education courses, BMS degree courses, prior learning in and outside the classroom, as well as co-curricular experiences. As the concluding experience for BMS students, the capstone provides the opportunity for students to reflect, through their Multidisciplinary Learning Portfolio, on how their education informs their future professional, personal, and educational lives.

**Prerequisite(s):** MLTI 3000 and ENGL 1160. Student must have 102 earned credit hours to enroll. This course should be taken towards the end of the Bachelor of Multidisciplinary Studies degree program as a culminating experience. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

# Music (MUS)

## Music Undergraduate Courses

### MUS 115A APPLIED BASSOON (1-2 credits)

This course provides individual weekly instruction on bassoon. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

### MUS 115B APPLIED CELLO (1-2 credits)

This course provides individual weekly instruction on cello. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the string faculty. Must also enroll in an instrumental ensemble. Music majors must attend the weekly master classes.

### MUS 115C APPLIED CLARINET (1-2 credits)

This course provides individual weekly instruction on saxophone. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

### MUS 115D APPLIED DOUBLE BASS (1-2 credits)

This course provides individual weekly instruction on bass. Students work with the instructor to schedule lessons for one credit hour (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required. The primary goal of the bass student is to develop the highest level of technical and musical proficiency on his/her instrument. Through weekly applied lessons and personal practice time, it is intended that the student will gain the tools necessary to become a more mature musician.

**Prerequisite(s):** This course requires an audition performed for & approved by the string or jazz faculty. Must also enroll in an instrumental ensemble. Music majors must attend the weekly master classes.

### MUS 115E APPLIED EUPHONIUM (1-2 credits)

This course provides individual weekly instruction on euphonium. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

### MUS 115F APPLIED FLUTE (1-2 credits)

This course provides individual weekly instruction on flute. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** An audition performed for and approved by the woodwind faculty is required. Students enrolled in this course must also enroll in an instrumental ensemble. Music majors must be concurrently enrolled in MUS 1000-001 and MUS 1000-007.

### MUS 115G APPLIED FRENCH HORN (1-2 credits)

This course provides individual weekly instruction on french horn. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

### MUS 115H APPLIED GUITAR (1-2 credits)

This course provides individual weekly instruction on guitar. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the string faculty. Must also enroll in an instrumental ensemble. Music majors must attend the weekly master classes.

### MUS 115I APPLIED HARP (1-2 credits)

This course provides individual weekly instruction on harp. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the string faculty. Must also enroll in an instrumental ensemble. Music majors must attend the weekly master classes.

### MUS 115J APPLIED OBOE (1-2 credits)

This course provides individual weekly instruction on oboe. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

### MUS 115K APPLIED PERCUSSION (1-2 credits)

This course provides individual weekly instruction on percussion. Students work with the instructor to schedule lessons for one credit hour (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the percussion faculty. Music majors must attend the weekly masterclass.

### MUS 115L APPLIED PIANO (1-2 credits)

This course provides individual weekly instruction on piano. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credits (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the piano faculty. Music majors must attend the weekly masterclass.

### MUS 115M APPLIED PIPE ORGAN (1-2 credits)

This course provides individual weekly instruction on organ. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the keyboard faculty. Music majors must attend the weekly masterclass.

### MUS 115N APPLIED SAXOPHONE (1-2 credits)

This course provides individual weekly instruction on saxophone. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

### MUS 115O APPLIED TROMBONE (1-2 credits)

This course provides individual weekly instruction on trombone. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 115P APPLIED TRUMPET (1-2 credits)**

This course provides individual weekly instruction on trumpet. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 115Q APPLIED TUBA (1-2 credits)**

This course provides individual weekly instruction on tuba. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 115R APPLIED VIOLA (1-2 credits)**

This course provides individual weekly instruction on viola. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the string faculty. Must also enroll in an instrumental ensemble. Music majors must attend the weekly master classes.

**MUS 115S APPLIED VIOLIN (1-2 credits)**

This course provides individual weekly instruction on violin. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (violin majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the string faculty. Must also enroll in an instrumental ensemble. Music majors must attend the weekly master classes.

**MUS 115T APPLIED VOICE (1-2 credits)**

This course provides individual weekly instruction for voice. Students work with their assigned instructor to schedule lessons for one credit hour (non music majors) or two credit hours (voice music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the voice faculty. Students must also enroll in a choral ensemble MUS 2700/MUS 4100 and attend the weekly masterclass. MUS 115T students are also required to attend Freshman Voice Seminar.

**MUS 115U APPLIED CARILLON (1-2 credits)**

This course provides individual weekly instruction on carillon. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the keyboard faculty.

**MUS 167B APPLIED CLASS - PIANO (1 credit)**

Basic reading of treble and bass clef are a prerequisite for this course. Beginning with learning correct posture, hand position and technique, a deeper understanding of key musical elements such as key signatures, dynamic markings, time signatures, rhythmic values, and musical terminology will begin the coursework. Reading, coordination, rhythm, scales, improvisation, technology, duet and solo repertoire will be used to strengthen both keyboard and overall musical skills. \*This is a sequential course whereby all students must pass the fall semester before enrolling in spring semester.

**MUS 167C APPLIED CLASS - VOICE I (1 credit)**

This course provides class instruction in the development of elementary basic skills in applied voice.

**MUS 167E APPLIED CLASS - PIANO FOR NON-MUSIC MAJORS (1 credit)**

Instruction in this course will prepare students with basic keyboard skills. An emphasis will be placed on the following skills during the first semester: keyboard posture, basic notes and rest values, the keyboard and groupings, notation, and notation symbols, five finger patterns, reading notes, intervals, slurs and phrase markings and rhythmic studies. Diverse music with fun games and popular music to sing along with playing the keyboard will show how fun learning the piano can be.

**Prerequisite(s):** Non-music majors only

**MUS 169D APPLIED CLASS JAZZ PIANO (1 credit)**

This course will consist of class instruction designed to teach students basic jazz piano skills.

**Prerequisite(s):** MUS 1420 or MUS 2430

**MUS 215A APPLIED BASSOON (1-2 credits)**

This course provides individual weekly instruction on bassoon. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 215B APPLIED CELLO (1-2 credits)**

This course provides individual weekly instruction on cello. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 115B. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of cello and attend the weekly masterclass.

**MUS 215C APPLIED CLARINET (1-2 credits)**

This course provides individual weekly instruction on clarinet. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 215D APPLIED DOUBLE BASS (1-2 credits)**

This course provides individual weekly instruction on double bass. Students work with the instructor to schedule lessons for one credit (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 115D. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of double bass and attend the weekly masterclass.

**MUS 215E APPLIED EUPHONIUM (1-2 credits)**

This course provides individual weekly instruction on euphonium. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 215F APPLIED FLUTE (1-2 credits)**

This course provides individual weekly instruction on flute. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition for & approval by the woodwind faculty, OR successful completion of 4 hours of MUS 115F. Students must also enroll in an instrumental ensemble. Music majors must be concurrently enrolled in MUS 1000-001 & 1000-007.

**MUS 215G APPLIED FRENCH HORN (1-2 credits)**

This course provides individual weekly instruction on french horn. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 215H APPLIED GUITAR (1-2 credits)**

This course provides individual weekly instruction on guitar. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the string faculty. Must also enroll in an instrumental ensemble. Music majors must attend the weekly master classes.

**MUS 215I APPLIED HARP (1-2 credits)**

This course provides individual weekly instruction on harp. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 115I. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of harp and attend the weekly masterclass.

**MUS 215J APPLIED OBOE (1-2 credits)**

This course provides individual weekly instruction on oboe. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 215K APPLIED PERCUSSION (1-2 credits)**

This course provides individual weekly instruction on percussion. Students work with the instructor to schedule lessons for one credit (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the percussion faculty. Music majors must attend the weekly masterclass.

**MUS 215L APPLIED PIANO (1-2 credits)**

This course provides individual weekly instruction on piano. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the piano faculty. Music majors must attend the weekly masterclass.

**MUS 215M APPLIED PIPE ORGAN (1-2 credits)**

This course provides individual weekly instruction on organ. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the keyboard faculty. Music majors must attend the weekly masterclass.

**MUS 215N APPLIED SAXOPHONE (1-2 credits)**

This course provides individual weekly instruction on saxophone. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credits (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 215O APPLIED TROMBONE (1-2 credits)**

This course provides individual weekly instruction on trombone. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 215P APPLIED TRUMPET (1-2 credits)**

This course provides individual weekly instruction on trumpet. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 215Q APPLIED TUBA (1-2 credits)**

This course provides individual weekly instruction on tuba. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 215R APPLIED VIOLA (1-2 credits)**

This course provides individual weekly instruction on viola. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 115R. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of viola and attend the weekly masterclass.

**MUS 215S APPLIED VIOLIN (1-2 credits)**

This course provides individual weekly instruction on violin. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 115S. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of violin and attend the weekly masterclass.

**MUS 215T APPLIED VOICE (1-2 credits)**

This course provides individual weekly instruction for voice. Students work with their assigned instructor to schedule lessons for one credit hour (non music majors) or two credit hours (voice music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for and approved by the voice faculty. All enrolled students must also enroll in a choral ensemble (MUS 2700, MUS 4100). All students must attend the weekly masterclass.

**MUS 315A APPLIED BASSOON (1-2 credits)**

This course provides individual weekly instruction on bassoon. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.



**MUS 315B APPLIED CELLO (1-2 credits)**

This course provides individual weekly instruction on cello. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 215B. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of cello and attend the weekly masterclass.

**MUS 315C APPLIED CLARINET (1-2 credits)**

This course provides individual weekly instruction on clarinet. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 315D APPLIED DOUBLE BASS (1-2 credits)**

This course provides individual weekly instruction on double bass. Students work with the instructor to schedule lessons for one credit (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 215D. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of double-bass and attend the weekly masterclass.

**MUS 315E APPLIED EUPHONIUM (1-2 credits)**

This course provides individual weekly instruction on euphonium. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 315F APPLIED FLUTE (1-2 credits)**

This course provides individual weekly instruction on flute. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Audition for & approval by woodwind faculty OR successful completion of 4 hrs of MUS 215F and a "PASS" in the Sophomore Continuation Jury. Concurrent enrollment in an instrumental ensemble. Music majors: Concurrent enrollment in MUS 1000-001 & 1000-007.

**MUS 315G APPLIED FRENCH HORN (1-2 credits)**

This course provides individual weekly instruction on french horn. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 315H APPLIED GUITAR (1-2 credits)**

This course provides individual weekly instruction on guitar. Students work with the instructor to schedule lessons for one credit (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 215H. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of guitar and attend the weekly masterclass.

**MUS 315I APPLIED HARP (1-2 credits)**

This course provides individual weekly instruction on harp. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 215I. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of harp and attend the weekly masterclass.

**MUS 315J APPLIED OBOE (1-3 credits)**

This course provides individual weekly instruction on oboe. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 315K APPLIED PERCUSSION (1-2 credits)**

This course provides individual weekly instruction on percussion. Students work with the instructor to schedule lessons for one credit (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the percussion faculty. Music majors must attend the weekly masterclass.

**MUS 315L APPLIED PIANO (1-2 credits)**

This course provides individual weekly instruction on piano. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the piano faculty. Music majors must attend the weekly masterclass.

**MUS 315M APPLIED PIPE ORGAN (1-3 credits)**

This course provides individual weekly instruction on organ. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the keyboard faculty. Music majors must attend the weekly masterclass.

**MUS 315N APPLIED SAXOPHONE (1-2 credits)**

This course provides individual weekly instruction on saxophone. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 315O APPLIED TROMBONE (1-2 credits)**

This course provides individual weekly instruction on trombone. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 315P APPLIED TRUMPET (1-2 credits)**

This course provides individual weekly instruction on trumpet. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credits (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 315Q APPLIED TUBA (1-2 credits)**

This course provides individual weekly instruction on tuba. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.



**MUS 315R APPLIED VIOLA (1-2 credits)**

This course provides individual weekly instruction on viola. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 215R. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of viola and attend the weekly masterclass.

**MUS 315S APPLIED VIOLIN (1-2 credits)**

This course provides individual weekly instruction on violin. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 215S. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of violin and attend the weekly masterclass.

**MUS 315T APPLIED VOICE (1-2 credits)**

This course provides individual weekly instruction for voice. Students work with their assigned instructor to schedule lessons for one credit hour or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for and approved by the voice faculty. All enrolled students must also enroll in a choral ensemble (MUS 2700, MUS 4100). All students must attend the weekly masterclass.

**MUS 415A APPLIED BASSOON (1-2 credits)**

This course provides individual weekly instruction on bassoon. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 415B APPLIED CELLO (1-2 credits)**

This course provides individual weekly instruction on cello. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 315B. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of cello and attend the weekly masterclass.

**MUS 415C APPLIED CLARINET (1-2 credits)**

This course provides individual weekly instruction on clarinet. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 415D APPLIED DOUBLE BASS (1-2 credits)**

This course provides individual weekly instruction on double bass. Students work with the instructor to schedule lessons for one credit (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 315D. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of double bass and attend the weekly masterclass.

**MUS 415E APPLIED EUPHONIUM (1-2 credits)**

This course provides individual weekly instruction on euphonium. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. This level of applied study provides instruction on fundamental brass playing concepts. Weekly assignments can include technical studies, scale exercises, tone and articulation studies, breathing exercises, solo and orchestral repertoire, chamber music, etc.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 415F APPLIED FLUTE (1-2 credits)**

This course provides individual weekly instruction on flute. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition for & approval by the woodwind faculty, OR successful completion of 4 credit hours of MUS 315F. Students must also enroll in an instrumental ensemble. Music majors must be concurrently enrolled in MUS 1000-001 & 1000-007.

**MUS 415G APPLIED FRENCH HORN (1-2 credits)**

This course provides individual weekly instruction on french horn. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 415H APPLIED GUITAR (1-2 credits)**

This course provides individual weekly instruction on the guitar. Students work with the instructor to schedule lessons for one credit (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 315H. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of guitar and attend the weekly masterclass.

**MUS 415I APPLIED HARP (1-2 credits)**

This course provides individual weekly instruction on harp. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 315I. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of harp and attend the weekly masterclass.

**MUS 415J APPLIED OBOE (1-2 credits)**

This course provides individual weekly instruction on oboe. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 415K APPLIED PERCUSSION (1-2 credits)**

This course provides individual weekly instruction on percussion. Students work with the instructor to schedule lessons for one credit (BA) or two credit hours (BM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the percussion faculty. Music majors must attend the weekly masterclass.

**MUS 415L APPLIED PIANO (1-2 credits)**

This course provides individual weekly instruction on piano. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the piano faculty. Music majors must attend the weekly masterclass.

**MUS 415M APPLIED PIPE ORGAN (1-3 credits)**

This course provides individual weekly instruction on organ. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the keyboard faculty. Music majors must attend the weekly masterclass.

**MUS 415N APPLIED SAXOPHONE (1-2 credits)**

This course provides individual weekly instruction on saxophone. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

**MUS 415O APPLIED TROMBONE (1-2 credits)**

This course provides individual weekly instruction on trombone. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 415P APPLIED TRUMPET (1-2 credits)**

This course provides individual weekly instruction on trumpet. Students work with the instructor to schedule lessons for one credit hour (BM) or two credit hours (BM), or three credit hours (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 415Q APPLIED TUBA (1-2 credits)**

This course provides individual weekly instruction on tuba. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 415R APPLIED VIOLA (1-2 credits)**

This course provides individual weekly instruction on viola. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 315R. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of viola and attend the weekly masterclass.

**MUS 415S APPLIED VIOLIN (1-2 credits)**

This course provides individual weekly instruction on violin. Students work with the instructor to schedule lessons for one credit or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 215S. Must also enroll in an instrumental ensemble. Students must be Music Majors in the area of violin and attend the weekly masterclass.

**MUS 415T APPLIED VOICE (1-2 credits)**

This course is a continuation of the applied music sequence of study for music majors. This course provides individual weekly instruction for voice. Students work with their assigned instructor to schedule lessons for one credit hour or two credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires successful completion of MUS 315T. This course requires an audition performed for and approved by the voice faculty. All enrolled students must also enroll in a choral ensemble (MUS 2700, MUS 4100) and attend the weekly masterclass.

**MUS 1000 CONVOCATION (0 credits)**

This course is a weekly meeting of all music majors which provides students with performance opportunities for themselves as well as recitals and lectures by guest artists.

**Prerequisite(s):** Music majors only.

**MUS 1010 MUSIC TECHNOLOGY NOW (0 credits)**

This course is a weekly meeting of all music technology majors. The course includes presentations of ongoing student projects, lectures by resident and visiting music technologists, audio engineering training and practicum opportunities, and critical listening experiences.

**Prerequisite(s):** Not open to non-degree graduate students.

**MUS 1050 MUSIC OF THE PEOPLE: THE BEATLES (3 credits)**

The Beatles are arguably the most influential and important rock band in history. Their music influenced not only the shape of popular music but youth culture. Course objectives are to learn the history of the music of the Beatles from their early influences and formation to their break-up and legacy; to understand the relationship of this music to larger cultural, political, and economic formations; to become familiar with aspects of the diverse musical structures used in their music; and to become familiar with the advances in sound and recording technology their music spawned and influenced innovation to music today.

**Distribution:** Humanities and Fine Arts General Education course

**MUS 1070 MUSIC OF THE PEOPLE: ROCK AND POP (3 credits)**

The objectives of this course are 1) to learn the history of rock music from its beginnings in earlier forms of popular music to the beginning of the 21st century 2) to understand the relationship of this music to larger cultural, political, and economic formations; and 3) to become familiar with aspects of musical structure which have been used in rock music.

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**MUS 1080 MUSIC OF THE PEOPLE: THE WORLD (3 credits)**

A study of music of various cultures throughout the world practiced primarily by individuals who produce music as a part of their everyday life. Using music as a window into various cultures the course gives students an insight into cultures that may vary from their own.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**MUS 1090 MUSIC APPRECIATION (3 credits)**

A listening course for the non-music major designed to promote a better understanding of noteworthy compositions from various periods and styles. Lab fee required.

**Distribution:** Humanities and Fine Arts General Education course

**MUS 1100 MUSIC OF THE PEOPLE: JAZZ (3 credits)**

In this course, the history of jazz will be traced from its origins up to the present. Designed primarily for non-music majors, the course will chronicle the development of various stylistic trends which characterize jazz and discuss the prominent musical artists that influenced each style period within the history of jazz. Lab fee required.

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**MUS 1170 FOUNDATIONS OF MUSIC TECHNOLOGY (3 credits)**

This course addresses the foundational people, concepts, and terms of music technology. The course covers a broad spectrum of themes including acoustics, psychoacoustics, microphones, Musical Instrument Digital Instrument (MIDI), synthesis, computer music, notation, and sampling. Intended for students pursuing a Bachelor of Arts with a concentration in Music Technology.

**MUS 1390 BASIC MUSICIANSHIP (3 credits)**

This course is designed to develop basic music reading skills through experiential learning that promotes music literacy skills of note reading, rhythmic reading, key signatures, and simple meter. It is designed for students interested in music degree tracks who have limited understanding of music theory.

**Prerequisite(s):** Music major or permission of the instructor. Not open to non-degree graduate students.

**MUS 1400 MUSIC FUNDAMENTALS (3 credits)**

Introduction to Music Studies will cover the basics of music including music reading in multiple clefs, scales, key signatures, meter signatures, rhythm, triads, seventh chords, and elementary aural and singing skills. The primary purpose of the course is to prepare students for further study in music at the college level.

**Prerequisite(s):** Music major or permission of instructor. Not open to non-degree graduate students.

**MUS 1410 MUSIC CORE CURRICULUM I (4 credits)**

The study of basic elements of music and their application to musical performance, education, and analysis.

**Prerequisite(s):** Music Major or permission from the instructor. Successful completion of 1400 (C or better). Not open to non-degree graduate students.

**MUS 1420 MUSIC CORE CURRICULUM II (4 credits)**

The study of basic elements of music and their application to musical performance, education, and analysis.

**Prerequisite(s):** Completion of MUS 1410 with the grade C or better or permission of the instructor. Not open to non-degree graduate students.

**MUS 1430 COMMERCIAL MUSIC THEORY I (3 credits)**

This course will integrate Roman Numeral, Lead Sheet, and Nashville notations through realization and analysis. It will also combine Common Practice Period music theory with Jazz theory in an effort to promote practical usage of theoretical systems in performance and practice.

**Prerequisite(s):** Prerequisites include MUS 1390 and MUS 1400.

**MUS 1600 INTRODUCTION TO ARTS EDUCATION (1 credit)**

This course is designed to provide an overview of the arts education profession. It will focus on the history, philosophy, and fundamentals of arts education in the United States. (Cross-listed with ART 1600).

**MUS 1640 DICTION FOR SINGERS I (1 credit)**

A study of the International Phonetic Alphabet (IPA) and the rules of pronunciation as applied to vocal literature of the English and Italian languages.

**Prerequisite(s):** Music major

**MUS 1660 DICTION FOR SINGERS II (1 credit)**

A study of the rules and guidelines of pronunciation as applied to vocal literature of German and French languages.

**Prerequisite(s):** Successful completion of MUS 1640

**MUS 1680 PIANO MENTORSHIP (0 credits)**

This course offers students feedback and mentorship by individuals with expertise in piano pedagogy, child development, business and technology.

**Prerequisite(s):** Permission of Instructor

**MUS 1690 KEYBOARD SKILLS I (1 credit)**

Instruction in this course will prepare students for keyboard skills for continued success as a professional musician, teacher or music educator. An emphasis will be placed on the following skills: scales/chords, sight reading, SATB reading, open score reading, improvisation, basic accompaniment, continued development of technical skills through individual piano selections and exciting project using contemporary music. Arrangements of popular music, chord charts and stylistic awareness in regards to the piano will be developed throughout the course. Beginning skills of ensemble playing will be encouraged throughout the semesters. This is a sequential course whereby all students must enroll in fall semester and pass before enrolling in spring semester.

**Prerequisite(s):** MUS 167B (Piano) or equivalent. Permission.

**MUS 2100 EXPLORING MUSIC THERAPY AND ADAPTIVE MUSIC THERAPY (3 credits)**

An exploratory introduction to music therapy and adaptive music in the rehabilitation and reorganization of human beings into social life, health, and wellbeing. A survey of the history of music therapy is included and with the processes and principles used by practicing music therapists. (Cross-listed with MEDH 2100).

**Prerequisite(s):** Not open to non-degree graduate students.

**MUS 2200 AUDIO RECORDING TECHNIQUES I (3 credits)**

This course provides students with basic instruction in analog and digital audio recording. Topics include hardware, software, microphones, and basic production. Upon completion of the course students will have the skills and the knowledge to do basic audio recording such as recording live concerts and simple multi-track recording.

**Prerequisite(s):** MUS 1170 OR permission of the instructor. Not open to non-degree graduate students.

**MUS 2300 SOUND DESIGN FOR VIDEO GAMES, FILM, AND SOUND ART (3 credits)**

This course provides an overview of sound design theory & techniques. Using various multimedia platforms, students will effectively create compelling audio assets for video games, film, and artistic sound installations.

**Prerequisite(s):** C or higher in MUS 1170, MUS 3170, or permission of instructor. Not open to non-degree graduate students.

**MUS 2410 MUSIC CORE CURRICULUM III (4 credits)**

The study of intermediate elements of music and their application to musical performance, education, and analysis.

**Prerequisite(s):** MUS 1420 or permission. Not open to non-degree graduate students.

**MUS 2420 MUSIC CORE CURRICULUM IV (4 credits)**

The study of advanced elements of music and their application to musical performance, education, and analysis.

**Prerequisite(s):** MUS 2410 or permission. Not open to non-degree graduate students.

**MUS 2430 COMMERCIAL MUSIC THEORY 2 (3 credits)**

As a continuation of MUS 1430, this course will integrate Roman Numeral, Lead Sheet, and Nashville notations through realization and analysis. It will also combine Common Practice Period music theory with Jazz theory in an effort to promote practical usage of theoretical systems in performance and practice.

**Prerequisite(s):** MUS 1390, MUS 1400, and MUS 1430

**MUS 2480 JAZZ IMPROVISATION AND THEORY (3 credits)**

This course is intended for the serious music student who wishes to gain basic knowledge and skills in the area of jazz improvisation. The course will emphasize beginning improvisation skills, basic jazz literature, chord scale relationships, melodic concepts, ear training, and analysis of improvised solos.

**Prerequisite(s):** MUS 1410 or MUS 1430

**MUS 2510 MUSIC AND THE BLACK EXPERIENCE (3 credits)**

Music and the Black Experience will provide students with historical and cultural knowledge of African Americans in the American music entertainment industry; the cultural influences of West African music traditions in African American music; and the American socio-political experiences that influenced music genres unique to Black people. Students will explore how West African music traditions survived and evolved through American slavery, reconstruction, the Civil Rights era, and into the 21st century; and how Black musical artists challenged racial discrimination in the music industry to create distinct music genres culturally unique to Black people. Overall, students taking this course will gain an understanding of the cultural role of music throughout the Black experience in America, and an appreciation for African American musical artists and composers who influenced all popular American music genres, from Spirituals to Broadway. (Cross-listed with BLST 2510).

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**MUS 2550 MUSIC HISTORY I (3 credits)**

This course is intended for music majors who wish to undertake a study of music literature and history of the Ancient, Medieval, Renaissance, and Baroque eras. The objective of the course is to illustrate the musical concepts, styles and performance practices through composers, individual works and scores that typify these eras and the cultural context surrounding them. Outside listening, reading, musical analysis and discussion will supplement lectures.

**MUS 2560 MUSIC HISTORY II (3 credits)**

This course is intended for music majors who wish to undertake a study of music literature and history of the Pre-Classical, Classical, Romantic, and Modern eras. The objective of the course is to illustrate the musical concepts, styles and performance practices through composers, individual works and scores that typify these eras and the cultural context surrounding them. Outside listening, reading, musical analysis and discussion will supplement lectures.

**MUS 2600 FUNDAMENTALS OF CONDUCTING (2 credits)**

The purpose of this course is to provide a basic foundation of conducting skills.

**Prerequisite(s):** This course is limited to music majors. Students must have successfully completed MUS 1410, MUS 1420. Not open to non-degree graduate students.

**MUS 2610 ADVANCED PIANO TECHNIQUES I (1 credit)**

Instruction in this course will prepare piano majors with advanced keyboard techniques for continued success as a professional musician or private instructor. An emphasis will be placed on the following skills: sight reading, SATB reading, open score reading, improvisation, intermediate/advanced accompaniment, and continued crafting of personal skill sets. Students will arrange contemporary music. Intermediate to advanced skills of ensemble playing will be cultivated throughout the semesters. This is a sequential course whereby all students must enroll in fall semester and pass before enrolling in spring semester.

**Prerequisite(s):** Piano Major

**MUS 2620 ADVANCED PIANO TECHNIQUES II (1 credit)**

Instruction in this course will prepare piano majors with advanced keyboard techniques for continued success as a professional musician or private instructor. An emphasis will be placed on the following skills: sight reading, SATB reading, open score reading, improvisation, intermediate/advanced accompaniment, and continued crafting of personal skill sets. Students will arrange contemporary music. Advanced skills of ensemble playing will be cultivated throughout the semester. This is a sequential course whereby all students must enroll in fall semester and pass before enrolling in spring semester.

**Prerequisite(s):** Piano Major; Successful completion of MUS 2610. Not open to non-degree graduate students.

**MUS 2630 KEYBOARD SKILLS FOR MUSIC TECHNOLOGY (1 credit)**

This course focuses on beginner keyboard proficiency, musicianship skills in the context of music technology and the contemporary industry. Students will explore the use of performance keyboard technologies like hardware and software synthesizers, multilayered and split range MIDI controllers, synchronous backing tracks and click tracks, and auxiliary instrument routing and effects. Performance outcomes will be based a wide range of musical communication standards ranging from common practice notation to lead sheets and guitar tabs as well as an equally wide range of improvisational styles and techniques. Projects will emphasize the importance of collaboration and creativity while encouraging a diverse musical repertoire aligned with the comprehensive skills needed in today's music industry.

**Prerequisite(s):** majors only; corequisite: MUS 1400

**MUS 2690 KEYBOARD SKILLS II (1 credit)**

Continuation of keyboard skills curriculum for continued success and independent thinking allowing students skill level for the following: scales/chords, sight reading, SATB reading, open score reading, improvisation, basic accompaniment, continued development of technical skills through individual piano selections and exciting project using contemporary music. Advanced arrangements of popular music, chord charts and stylistic awareness continue to develop throughout the course. Advanced skills of ensemble playing and experience will be a part of the curriculum. Class instruction in advanced development of keyboard skills including sight reading, harmonization, open score reading, accompaniments and facility.

**Prerequisite(s):** MUS 1690 or equivalent. Permission.

**MUS 2700 UNIVERSITY CHORUS (0-1 credits)**

University Chorus is an ensemble open to all University students, faculty and staff. No audition necessary. All styles of music, including popular. Students wanting humanities/fine arts general education credit must register for 1 credit hour.

**Prerequisite(s):** University Chorus participants need to be aware of the importance of rehearsals and concerts, and commit to those times in their schedule. Student must seek approval from the Director of Choral Activities in order to take this course for 0 credits.

**Distribution:** Humanities and Fine Arts General Education course

**MUS 2730 CHAMBER ORCHESTRA (0-1 credits)**

A string orchestra with selected winds performing symphonic repertoire. Public performance. Open to all students and members of the greater metropolitan community.

**Prerequisite(s):** Audition is required.

**MUS 2740 CHAMBER MUSIC (0-1 credits)**

Specialized chamber music groups from the string, wind, percussion, jazz, technology, or commercial music area. Literature will be chosen from the extensive materials available for these combinations of instruments.

**Prerequisite(s):** Audition and permission.

**MUS 2750 MARCHING BAND (0 credits)**

Open to all full and part-time UNO students during the fall semester only. No audition is required. K-12 instrumental music education majors are required to enroll in Marching Band for two semesters.

**MUS 2760 UNIVERSITY CONCERT BAND (0-1 credits)**

University Band is a performing ensemble that is open to all UNO students, staff, and faculty. The band has varied programming of contemporary and classical works. There is no audition necessary.

**Prerequisite(s):** There are no prerequisites for University Band, but participants need to be aware of the importance of rehearsals and concerts and commit to those times in their schedules.

**Distribution:** Humanities and Fine Arts General Education course

**MUS 2770 JAZZ ENSEMBLE (0-1 credits)**

A select ensemble performing jazz literature from all periods. Open to all full- and part-time UNO students. An audition is required with the director.

**Prerequisite(s):** Acceptance into jazz ensemble is by audition only. Students must demonstrate technical command of their instrument, sightreading skills in multiple jazz styles and ability to demonstrate credible jazz improvisation skills.



**MUS 2790 COLLABORATIVE PIANO (1 credit)**

This course is designed to develop skills useful for pianists to learn to collaborate with vocalists, instrumentalists and ensembles. Individual class times will also accompany rehearsals with designated collaborative partners. The vast repertoire and stylistic knowledge for areas such as musical theater, voice, choral, strings, brass, orchestra and wind ensemble set the beginning of exciting partnerships throughout a musical career.

**Prerequisite(s):** Completion of MUS 167B, MUS 1690, MUS 2690.

Permission. Not open to non-degree graduate students.

**MUS 2800 SOUND REINFORCEMENT (3 credits)**

This course provides students with basic instruction in the fundamental knowledge and techniques of live sound production. Topics include equipment, processes, and systems used in a variety of scenarios with emphasis on practical, hands-on production. Upon completion of the course students will have the skills and the knowledge to provide basic sound reinforcement.

**Prerequisite(s):** Activities include on-location sound reinforcement, written live sound observations, in-class practicum, and electronics labs. Not open to non-degree graduate students.

**MUS 2810 MUSIC IN LATIN AMERICAN CULTURE (3 credits)**

This course surveys musical traditions from countries in Latin America and the Caribbean. Characteristic regional genres, ensembles, instruments, and music rituals will be examined. We will also trace the historical, cultural, and socio-political aspects of Latin American music on a global scale and delve into the developments of some international musical genres. (Cross-listed with LLS 2810).

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**MUS 2820 INTRODUCTION TO MUSIC INDUSTRY (3 credits)**

This course provides an initial survey of the historical and modern music industry. Students learn about the interdisciplinary nature of the music industry by exploring careers in prototypical record companies, publishing companies, arts management, and self-funded entrepreneurship. Other topics include pathways to commercialization of intellectual property and current trends in the music industry.

**Prerequisite(s):** Music major or permission of instructor.

**MUS 3100 MUSIC INFORMATICS (3 credits)**

Surveys the use of digital music data in the study, composition, performance, analysis, storage, and dissemination of music. Various computational approaches and technologies in music informatics including music information retrieval will be explored and implemented by students. (Cross-listed with ACPM 3100)

**Prerequisite(s):** Successful completion of one of the following three courses satisfies the prerequisite requirement: CIST 1300 or MUS 3170 or MUS 3180. Not open to non-degree graduate students.

**MUS 3170 EXPLORING MUSIC TECHNOLOGY (3 credits)**

An overview of computers and music. The course will focus on broad themes of people, procedures, data structures, software, hardware, and computer music environments. Intended for students with limited music or computer backgrounds.

**MUS 3180 ELECTRONIC MUSIC PRODUCTION (3 credits)**

An exploration of the potentials of electronic music. Concepts of electronic music are presented through the use of a computer, software, and appropriate hardware. Students create assignments that demonstrate the application of basic techniques.

**MUS 3190 JUNIOR/NON DEGREE RECITAL (1 credit)**

This course is designed for all undergraduate performance music majors performing a junior or any student who wants to perform a non-degree recital.

**Prerequisite(s):** Applied Music (MUS 1150-3150) and/or permission of applied instructor. Payment of Recital Fee (Conductors' fees are automatically waived). Not open to non-degree graduate students.

**MUS 3200 JAZZ PEDAGOGY (1 credit)**

Course includes middle school and high school instrumental jazz literature, basic improvisation, rhythm section techniques and laboratory ensemble experiences.

**Prerequisite(s):** MUS 2410 or MUS 2430

**MUS 3210 AUDIO RECORDING TECHNIQUES II (3 credits)**

This course provides students with advanced instruction in sound recording and digital audio production. Topics include microphone technique, analog audio hardware, digital audio software, and advanced production techniques.

**Prerequisite(s):** MUS 2200

**MUS 3260 MUSICAL THEATRE AND OPERA WORKSHOP (1 credit)**

THEA 3260/MUS 3260 Musical Theatre and Opera Workshop is an ensemble offered during fall semester that integrates singing, movement and acting through rehearsal, private musical coaching and group exercise. It is designed for students in opera and musical theatre and develops the skill sets that are needed for performance. (Cross-listed with THEA 3260).

**Prerequisite(s):** THEA 1200 or MUS 115 T; PEA 111Q or PEA 111R or PEA 112W; THEA 1300 or THEA 2300. These prerequisites can be waived by the professors.

**MUS 3300 RECORD LABEL (3 credits)**

Managing the student-run record label, this course familiarizes students with the organization of independent record labels. Students will learn and work collaboratively on the development of music projects to complete the specific duties of each department of a record label, including but not limited to artists and repertoire, business affairs, production, marketing, and distribution.

**Prerequisite(s):** Open to Music Majors or by permission of instructor to students of Sophomore Standing or above.

**MUS 3400 FORM AND ANALYSIS (2 credits)**

The study of musical forms and their application to musical arranging for choir, band, and orchestra.

**Prerequisite(s):** MUS 2420

**MUS 3440 COMPOSITION I (1 credit)**

Individualized applied study of the basic craft of musical composition in small media and various styles.

**Prerequisite(s):** MUS 2420 and written permission. Not open to non-degree graduate students.

**MUS 3480 CLASS APPLIED JAZZ IMPROVISATION II (2 credits)**

This course is intended for the serious music student who wishes to gain advanced knowledge and skills in the area of jazz improvisation. This course will emphasize advanced improvisation skills, standard jazz literature, advanced jazz harmony, chord/scale relationships, melodic concepts, ear training, and analysis of improvised solos.

**Prerequisite(s):** MUS 2480

**MUS 3600 MUSIC EDUCATION CORE I - ELEMENTARY (5 credits)**

Methods and materials for teaching elementary (K-6) general, instrumental and choral music.

**Prerequisite(s):** Students must be accepted to the College of Education, Health and Human Sciences (CEHHS) Teacher Preparation Program and have completed MUS 1600 and MUS 1410 with a C or better; Music Education Majors only. Not open to non-degree graduate students.

**MUS 3604 MUSIC EDUCATION BEGINNING PRACTICUM (1 credit)**

In Beginning Practicum, teacher candidates are observing and practicing instructional strategies for music students in grades K-5 in school settings. Students will spend a minimum of 20 hours in an elementary music classroom.

**Prerequisite(s):** MUS 3600 - corequisite, 2.75 NU GPA. Not open to non-degree graduate students.



**MUS 3610 MUSIC EDUCATION CORE II - MIDDLE SCHOOL/JUNIOR HIGH SCHOOL (5 credits)**

Course includes brass and percussion pedagogy, middle school instrumental and choral literature and techniques, general music, conducting, and laboratory ensemble experiences.

**Prerequisite(s):** MUS 3600 or permission.

**MUS 3614 MUSIC EDUCATION INTERMEDIATE PRACTICUM (1 credit)**

In Intermediate Practicum, teacher candidates are observing and practicing instructional strategies for middle school students in school settings. Students will spend a minimum of 30 hours in a middle school music classroom.

**Prerequisite(s):** Prerequisites: MUS 3600, MUS 3604; Corequisite: MUS 3610; 2.75 NU GPA. Not open to non-degree graduate students.

**MUS 3630 MUSIC EDUCATION CORE III - HIGH SCHOOL METHODS (5 credits)**

This course explores all aspects of administering high school vocal and instrumental music programs as well as prepares the student for clinical teaching and the job search process.

**Prerequisite(s):** MUS 3600 and MUS 3610 or permission, 2.75 NU GPA.

**MUS 3634 MUSIC EDUCATION ADVANCED PRACTICUM (1 credit)**

In Advanced Practicum, teacher candidates are observing and practicing instructional strategies for high school students in school settings. Students will spend a minimum of 30 hours in a high school music classroom.

**Prerequisite(s):** Prerequisites: MUS 3600, MUS 3604, MUS 3610, MUS 3614. Corequisite: MUS 3630; 2.75 NU GPA. Not open to non-degree graduate students.

**MUS 3640 MUSIC EDUCATION FINAL PRACTICUM (2 credits)**

This course is designed to link theoretical concepts learned in the classroom to the practical application of "real world" situations and to familiarize students with the profession of music education. Hours completed in this course count as the final practicum as specified by the College of Education Teacher Preparation Program and required by the Nebraska Department of Education for teacher certification.

**Prerequisite(s):** MUS 3630, 2.75 NU GPA. Not open to non-degree graduate students.

**MUS 3650 INTERSHIPS IN MUSIC (0-3 credits)**

A course designed to link theoretical concepts learned in the classroom to the practical application of "real world" situations and to familiarize students with attitudes, operations and programs of various musical organizations.

**Prerequisite(s):** Junior standing or permission of Music Department Chair. Not open to non-degree graduate students.

**MUS 3660 ADVANCED CONDUCTING (2 credits)**

An advanced course in conducting for music majors. This course will provide a theoretical and practical study of various materials and methods as they relate to conducting score study, gestures, rehearsal strategy and related performance practices.

**Prerequisite(s):** Successful completion of MUS 2420.

**MUS 4000 SPECIAL STUDIES IN MUSIC (1-3 credits)**

Seminars or workshops in Theory, History, Performance, and Music Education designed to meet specific interests and needs of students. Topics and number of credits for each specific offering will be announced during the prior semester. (Cross-listed with MUS 8006).

**MUS 4100 CONCERT CHOIR (0-1 credits)**

A select choral ensemble specializing in outstanding examples of music of all styles and from all periods. Public performance. Open to all University students.

**Prerequisite(s):** The prerequisite for Concert Choir is an audition. Student must seek approval from the Director of Choral Activities in order to take this course for 0 credit.

**MUS 4120 CHAMBER CHOIR (0-1 credits)**

A select choral ensemble of 20-32 singers, specializing in outstanding examples of a cappella choral music. Preparation and performance of all styles of music. Appearances in concerts throughout the year, on campus; in the metropolitan area; and occasionally, in various other regions of Nebraska and the world.

**Prerequisite(s):** Auditions at start of each semester - solo, sight-sing, range check, & group audition to match voice qualities. Must seek approval from Director of Choral Activities to take course for 0 credits. Not open to non-degree graduate students.

**MUS 4130 UNIVERSITY ORCHESTRA (0-1 credits)**

Heartland Philharmonic Orchestra is a full symphony orchestra performing symphonic repertoire. Public performance. Open to all students and members of the greater metropolitan community. Repertoire is drawn from the four periods of music associated with symphonic literature: Baroque, Classical, Romantic, and Modern.

**Prerequisite(s):** Audition and permission.

**MUS 4160 SYMPHONIC WIND ENSEMBLE (0-1 credits)**

The Symphonic Wind Ensemble performs the finest concert band literature at four campus concerts, professional conferences, and tours. Open to all full- and part-time students.

**Prerequisite(s):** Audition is required for membership in the Symphonic Wind Ensemble.

**MUS 4190 RECITAL (1 credit)**

This course is designed for all undergraduate students performing a senior recital. All recitals are to be one half hour to one hour depending on the student's degree requirements.

**Prerequisite(s):** Recital fee payment (conductor's fees waived) & applied instructor's permission. BM-Education & BA Students: 4 semesters of appropriate Applied Music (MUS 1150-3150). BM-Performance: MUS 3190; 7 semesters of appropriate Applied Music (MUS 1150-3150).

**MUS 4220 AUDIO RECORDING TECHNIQUES III (3 credits)**

This course provides students with advanced instruction in sound mixing, digital audio editing, audio post-production and mastering. Topics include advanced digital audio editing, audio signal processing techniques, analog signal processing hardware, automation, and final product authoring and mastering.

**Prerequisite(s):** MUS 3170, MUS 4200 & MUS 4210. Not open to non-degree graduate students.

**MUS 4240 ADVANCED AUDIO RECORDING TECHNIQUES (3 credits)**

This course provides students with advanced instruction in sound mixing, digital audio editing, audio post-production and mastering. Topics include advanced digital audio editing, audio signal processing techniques, analog signal processing hardware, automation, and final product authoring and mastering. (Cross-listed with MUS 8246).

**Prerequisite(s):** MUS 3170, MUS 4200 & MUS 4210. Not open to non-degree graduate students.

**MUS 4280 ADVANCED TOPICS IN MUSIC TECHNOLOGY (3 credits)**

A seminar in Music Technology on an advanced or emerging topic in the field. The topic for each offering will be announced the prior semester.

**Prerequisite(s):** Permission of department.

**MUS 4290 MUSIC CAPSTONE PROJECT (1 credit)**

This course is to serve as a capstone project for students in the Bachelor of Arts in Music degree. Projects must be approved by the faculty and a member of the faculty will be assigned to advise on the project.

**Prerequisite(s):** Senior standing and successful completion of MUS 1420 or MUS 1430. Not open to non-degree graduate students.

**MUS 4300 BUSINESS OF MUSIC (3 credits)**

An overview of the global music industry as practiced in the United States, this course will provide insights into a number of key areas of business related to music. Students will also explore a diversity of music industry career paths in areas such as arts management, music products & merchandizing, public relations, music production & recording, publishing, and online music distribution.

**Prerequisite(s):** Students must be enrolled as music majors, or by permission of instructor.

**MUS 4400 ADVANCED COMPOSITION (1 credit)**

Individualized applied study of the craft of musical composition in larger media and various styles.

**Prerequisite(s):** MUS 3440 and written permission. Not open to non-degree graduate students.

**MUS 4430 ARRANGING FOR JAZZ ENSEMBLE (3 credits)**

Techniques of writing for jazz ensembles of various combinations of instruments. (Cross-listed with MUS 8436).

**Prerequisite(s):** MUS 2480 or MUS 2420

**MUS 4440 MUSIC SINCE 1945 (3 credits)**

This course covers important developments in music in the United States and Europe since 1945. (Cross-listed with MUS 8446).

**Prerequisite(s):** Completion of MUS 3420 or permission of instructor.

**MUS 4450 ORCHESTRATION (2 credits)**

Basics of instrumentation and scoring for band and orchestra.

**Prerequisite(s):** Completion of MUS 2420 with a C or better. Not open to non-degree graduate students.

**MUS 4530 HISTORY OF WESTERN OPERA (3 credits)**

This course will consist of significant music theater works in the Western world from 1600 to the present. (Cross-listed with MUS 8536).

**Prerequisite(s):** MUS 2550 and MUS 2560, Junior standing.

**MUS 4540 RENAISSANCE MUSIC LITERATURE (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of music literature c. 1350-1600. (Cross-listed with MUS 8546).

**Prerequisite(s):** MUS 2550, MUS 2560, and MUS 2570. Not open to non-degree graduate students.

**MUS 4550 BAROQUE MUSIC LITERATURE (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of music literature from c. 1600-1750. (Cross-listed with MUS 8556).

**Prerequisite(s):** MUS 2550 and MUS 2560.

**MUS 4560 CLASSICAL MUSIC LITERATURE (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of music literature from c. 1750-1815. (Cross-listed with MUS 8566).

**Prerequisite(s):** MUS 2550, MUS 2560, and MUS 2570.

**MUS 4570 ROMANTIC MUSIC LITERATURE (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of Music literature from c. 1815-1912. (Cross-listed with MUS 8576).

**Prerequisite(s):** MUS 2550 and MUS 2560.

**MUS 4580 MUSIC FROM 1900 - 1945 (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of music literature from the post-romantic period to 1945. The objective will be to provide the student with a broad overview with special attention given to composers and individual works which typify a style or form. (Cross-listed with MUS 8586).

**Prerequisite(s):** MUS 2560.

**MUS 4590 AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of African-American popular music literature from c. 1900-present. The objective will be to provide the student with a broad overview with special attention given to musicians and individual works which typify a style or form. Listening assignments will be an integral part of the course, and attendance at live performances will supplement the lectures, discussions and readings. (Cross-listed with MUS 8596).

**MUS 4600 PIANO PEDAGOGY (3 credits)**

This course is a survey of the art of teaching the piano. Course content will include a survey of beginning and intermediate piano methods, literature for the beginning/intermediate piano student, studio business practice, professional organizations, and group piano instruction pedagogy. (Cross-listed with MUS 8606).

**Prerequisite(s):** Permission of instructor.

**MUS 4610 VOICE PEDAGOGY (3 credits)**

This course is a study of the physiological and acoustical properties of the vocal mechanism and of the various techniques used in developing the singing voice. Also, it will apply knowledge acquired about the voice through studio teaching and observations of other voice teachers. (Cross-listed with MUS 8616).

**Prerequisite(s):** Voice Music Major or permission of instructor.

**MUS 4620 INSTRUMENTAL PEDAGOGY (3 credits)**

This course is a study of the physiological and acoustical properties of various instruments and of techniques used in developing instrumental technique. Also, it will apply knowledge acquired about the instrument through studio teaching and observations of other instrumental teachers.

**MUS 4660 HEALTH AND WELLNESS FOR MUSICIANS (3 credits)**

Health and Wellness for Musicians gives an overview of the dimensions of wellness and common health/wellness challenges for musicians. The course provides students with a toolbox of ideas and strategies for the development, design, and implementation of a music wellness campaign for non-musicians and individualized wellness plans for specific instruments and voice types. (Cross-listed with MUS 8696).

**MUS 4720 CHORAL LITERATURE (3 credits)**

A survey course in the study of significant choral genre of the various periods of music from plain song to contemporary music. (Cross-listed with MUS 8726).

**Prerequisite(s):** MUS 2570 and MUS 3640. Junior music major standing or permission of the instructor.

**MUS 4730 KEYBOARD LITERATURE (3 credits)**

This course will examine literature written for keyboard (piano) from the 16th century to the present. Emphasis will be placed on solo literature of the Baroque, Classic, Romantic, and Contemporary periods. Included are keyboard concertos with orchestra and works for four hands and two pianos. (Cross-listed with MUS 8736).

**Prerequisite(s):** Permission of instructor.

**MUS 4740 VOICE LITERATURE (3 credits)**

This course is a study of the development of art song in Europe and America. Emphasis will be given to German and French song literature and their influence on English and American song. (Cross-listed with MUS 8746).

**Prerequisite(s):** Junior voice or permission of instructor.

**MUS 4750 INSTRUMENTAL LITERATURE (3 credits)**

This course is a study of the development of instrumental (brass, winds, strings, percussion) literature in Europe and America.

**Prerequisite(s):** Not open to non-degree graduate students.

**MUS 4830 ARRANGING FOR JAZZ ENSEMBLE II (3 credits)**

This course provides students with advanced instruction in the principles and techniques of writing and arranging for large jazz ensembles. Topics include instrumentation, jazz harmony, voicings, rhythmic devices, orchestration, form, and analysis of historical styles. Students will create effective arrangements for big band by examining the dynamic and expressive qualities of instrument families as they relate to timbre, range, balance, and rhythmic variation. (Cross-listed with MUS 8836).

**Prerequisite(s):** MUS 4430: Arranging for Jazz Ensemble

## Native American Studies (NAMS)

### Native American Studies Undergraduate Courses

**NAMS 1100 INTRODUCTION TO NATIVE AMERICAN STUDIES (3 credits)**

This course will introduce the diverse cultures of Native Americans. Using both historical and contemporary experiences, students will learn about the cultural, historical, social, economic and/or political factors that have shaped Native experience in North America. Students will also acquire new insights about American history and culture by looking through the lens of contemporary native cultures, nations and individuals.

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**NAMS 4060 FIRST NATIONS: SPIRIT IN ARTS AND CULTURES (3 credits)**

First Nations: Spirit in Arts and Cultures explores how contemporary Indigenous/Native (First Nations, Metis and Inuit) artists in the lands now known as Canada express their cultures, especially beliefs, through the fine arts. While we will focus on visual culture (sculpture, painting, film, mixed media), literary works (a novel, poetry) and music will also be included. First Nations, Metis and Inuit artists often simultaneously express traditions, their own experiences, and reflections on the present and past through their work. By doing this, they share valuable perspectives on health and healing as well as the national process of Truth and Reconciliation. Trying, so much as possible, to let the artists speak for themselves, we will explore how spirituality manifests itself in contemporary cultures for these Indigenous artists north of the border. (Cross-listed with RELI 4060, RELI 8066, NAMS 8066).

**NAMS 4140 INDIAN GAMING (3 credits)**

This course will be an in depth study of the history and development of Indian Gaming law and policy. (Cross-listed with PSCI 4430).

**Prerequisite(s):** NAMS 1100 or permission of the Instructor.

**NAMS 4240 CONTEMPORARY TRIBAL NATION BUILDING (3 credits)**

This course applies traditional North American tribal governance and leadership beliefs and practices in a critical examination of contemporary tribal governments, tribal courts and programs, and tribal leaders. This course challenges students to assess present tribal governments and leaders concerning their effectiveness in meeting the needs of tribal people today. (Cross-listed with PSCI 4450).

**Prerequisite(s):** NAMS 1100

**NAMS 4270 DECOLONIZING NATIVE AMERICAN HEALTH (3 credits)**

This course will utilize an interdisciplinary lens to interrogate Native American health and wellness grounded in the decolonizing theoretical and methodological tools drawn from Medical Anthropology and Native American Studies. Topics covered will include: Health Disparities, Federal Indian Health Policy, Historical Trauma, Medical Mistrust, Traditional Healing, Food Sovereignty and Research Ethics. (Cross-listed with ANTH 8276, ANTH 4270, NAMS 8276).

**Prerequisite(s):** NAMS 1100 or Instructor permission

**NAMS 4400 HISTORY OF NATIVE AMERICAN INDIGENOUS PEOPLES (3 credits)**

This survey of North American Indigenous peoples provides a historical overview of the peoples and their interactions with settlers, wars, policies, and other events that have shaped modern Tribal and U.S. relations. (Cross-listed with HIST 8406, HIST 4400).

**Prerequisite(s):** NAMS 1100; Junior standing or permission of instructor.

**NAMS 4440 FEDERAL INDIAN LAW (3 credits)**

This course provides an overview of tribal legal authority as it exists within federal law. It includes traditional North American tribal governance and leadership practices. Key topics include the federal-tribal trust relationship, Indian treaties, federal Indian policies and case law, and 20th Century establishment of modern tribal governments and courts. (Cross-listed with PSCI 4440).

**Prerequisite(s):** NAMS 1100

**NAMS 4900 INDEPENDENT STUDY (1-6 credits)**

An individualized course of study with a member of the Native American Studies faculty. Either independent research or advanced readings may be pursued. May be repeated, for credit, up to six hours, under a different topic.

**Prerequisite(s):** NAMS 1100 and permission of the instructor

**NAMS 4920 SPECIAL TOPICS IN NATIVE AMERICAN STUDIES (3 credits)**

The content of this course varies from semester to semester, giving instructor and students an opportunity to investigate a variety of topics in Native American Studies. May be repeated for credit as long as the topic differs.

**Prerequisite(s):** NAMS 1100 and/or permission of instructor.

## Natural Sciences (NSCI)

### Natural Sciences Undergraduate Courses

**NSCI 1050 SCIENCE AND CRITICAL THINKING (3 credits)**

Introduction to the fundamental laws and principles of science and practice using the scientific method in everyday life to distinguish between scientific evidence and pseudoscientific thinking. Students will examine the science underlying popular pseudoscientific subjects such as ghosts, psychics, Bigfoot and other monsters, and space aliens. Offered every fall semester.

**Distribution:** Natural/Physical Science General Education course

**NSCI 1060 INTRODUCTION TO URBAN HEALTHCARE (2 credits)**

Students will explore current topics such as biological, environmental, sociological, and psychological determinants of health and disease, and health issues as they relate to healthcare in urban environments. This course is designed to prepare students to enter health professions and successfully apply these concepts in an urban underserved healthcare setting.

**Prerequisite(s):** Instructor permission required.

**NSCI 3940 WRITING IN CHEMISTRY (2 credits)**

Techniques and practices for writing in chemistry. Fulfills 2 credit hours of the third writing course requirement for students with a major in chemistry. (Spring)

**Prerequisite(s):** ENGL 1160, and CHEM 2400 or 2500 with a grade of C- or better.

**Distribution:** Writing in the Discipline Sequenced Course

**NSCI 4060 BASIC LABORATORY CONCEPTS (1 credit)**

This course introduces basic clinical laboratory practices and techniques, principles of laboratory safety and infection control, professional ethics, specimen collection, handling, and processing, laboratory math concepts, and phlebotomy.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program.

**NSCI 4080 CLINICAL IMMUNOLOGY & SEROLOGY (1 credit)**

The course introduces the study of the immune system and the laboratory tests used to identify its disorders with practical application of immunologic and serologic principles to aid in the diagnosis of infectious and autoimmune diseases. The theory and application of basic molecular diagnostic tools are also addressed. A laboratory component is included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program.

**NSCI 4100 CLINICAL CHEMISTRY I (4 credits)**

This is the first semester of a two semester series on clinical chemistry. This course introduces the theory, technical performance, and evaluation of clinical chemistry laboratory procedures. Basic physiology of organ systems and clinically significant analytes are emphasized. Correlation of clinical laboratory data with the diagnosis and treatment endocrine disorders is also introduced. The course will include instrumentation, methodologies and quality control. A laboratory component is included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program.

**NSCI 4110 CLINICAL CHEMISTRY II (3 credits)**

This is the second semester of a two semester series on clinical chemistry. This course expands on the theory, technical performance, and evaluation of chemistry laboratory procedures introduced in NSCI 4100 Clinical Chemistry I. Practical application and correlation of clinical laboratory data with disease states and treatment is emphasized, with a thorough examination of methodologies and problem-solving concepts. Advanced analytical skills, improved laboratory testing efficiency, workload management, and the resolution of unexpected laboratory results are covered in this course. Quality management which includes quality control, quality assurance, and instrument maintenance will also be included. A laboratory component is included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program; NSCI 4100.

**NSCI 4120 CLINICAL HEMATOLOGY I (4 credits)**

This is the first semester of a two semester series on clinical hematology and hemostasis. The course involves the study and testing of red blood cells, white blood cells, and blood clotting factors. In addition, the function of blood and the blood-forming organs is taught in this course. The course includes an overview of basic microscopy. Practical application and correlation of clinical laboratory data with disease states is emphasized. A laboratory component is included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program.

**NSCI 4130 CLINICAL HEMATOLOGY II (3 credits)**

This is the second semester of a two semester series on clinical hematology and hemostasis; the course builds on the material introduced in NSCI 4120 Clinical Hematology I. Theoretical aspects of specialized hematology and coagulation techniques are reviewed, with a thorough examination of testing methodologies and problem-solving concepts. Hematology and coagulation disease states are thoroughly studied and correlated to the clinical laboratory data. Emphasis is placed on advanced analytical skills, improved laboratory testing efficiency, workload management, and the resolution of unexpected laboratory results. Quality management which includes quality control, quality assurance, laboratory techniques, and instrument maintenance will also be included. A laboratory component is included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program; NSCI 4120.

**NSCI 4140 CLINICAL IMMUNOHEMATOLOGY I (3 credits)**

This is the first semester of a two semester series on immunohematology. This course introduces the study of blood group antigens and antibodies as applied to the transfusion of blood and blood components. The course involves the study of the principles, procedures, and clinical significance of transfusion medicine. Included will be a brief overview of genetics, immunology, and regulations governing blood banks. Recognition of unexpected laboratory results will be emphasized. Quality testing which includes quality control, basic transfusion medicine laboratory techniques and procedures, and safety will also be included.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program

**NSCI 4150 CLINICAL IMMUNOHEMATOLOGY II (3 credits)**

This is the second semester of a two semester series on immunohematology. The course continues the study of the principles, procedures, and clinical significance of transfusion medicine introduced in NSCI 4140 Clinical Immunohematology I. Advanced immunohematology theory and laboratory techniques are taught, with a thorough examination of methodologies and problem-solving concepts. These include, but are not limited to: compatibility testing, adverse transfusion events, hemolytic anemia, differentiating multiple blood group antibodies, and the resolution of unexpected laboratory results. Emphasis is placed on advanced analytical skills, improved laboratory testing efficiency, and workload management. Quality management which includes quality control, quality assurance, laboratory techniques, and instrument maintenance will also be included.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program; NSCI 4140

**NSCI 4160 CLINICAL MICROBIOLOGY I (4 credits)**

This is the first semester of a two semester series on clinical microbiology. This course introduces the study and laboratory identification of bacteria of clinical significance using culture, biochemical, molecular, and microscopic methods, as well as, the performance and interpretation of bacterial antibiotic susceptibility testing. The course introduces the study of viruses and their detection and identification. Instrumentation and quality control are also included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program

**NSCI 4170 CLINICAL MICROBIOLOGY II (4 credits)**

This is the second semester of a two semester series in clinical microbiology; the course builds on the material introduced in NSCI 4160 Clinical Microbiology I and NSCI 4080 Clinical Immunology and Serology. This course advances the study and laboratory identification of bacteria of clinical significance, with a thorough examination of methodologies and problem-solving concepts, including the resolution of unexpected laboratory results. The course includes the study of viruses, parasites, and fungi, and their detection and identification. The course continues the study of serologic principles and methods to aid in the diagnosis of infectious diseases. Emphasis is placed on advanced analytical skills, improved laboratory testing efficiency, and workload management. Quality management which includes quality control, quality assurance, laboratory techniques, and instrument maintenance will also be included.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program; NSCI 4160; NSCI 4080.

**NSCI 4180 CLINICAL MICROSCOPY I (1 credit)**

This is the first semester of a two semester series on clinical urine and body fluid analysis. Study of urine includes physiology of renal function, as well as, the significance of cellular and chemical constituents of urine. Microscopic evaluation of other significant body fluids and clinical diagnoses are introduced. A laboratory component is included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program



**NSCI 4190 CLINICAL MICROSCOPY II (1 credit)**

This is the second semester of a two semester series on clinical urine and body fluid analysis. This course expands on the theory, technical performance, and evaluation of laboratory procedures introduced in NSCI 4180 Clinical Microscopy I. The physiology of renal function and the significance of cellular and chemical constituents of urine are reviewed, with a thorough examination of methodologies and problem-solving concepts. Practical application and correlation of clinical laboratory data along with patient diagnosis is emphasized. Students develop multi-tasking and trouble-shooting skills to aid in workload management. Quality management which includes quality control, quality assurance, laboratory techniques, and instrument maintenance will also be included. A laboratory component is included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program; NSCI 4180

**NSCI 4200 CLINICAL LABORATORY MANAGEMENT I (1 credit)**

This course introduces the study of the basic concepts and principles of the management process with particular emphasis on laboratory operations. Laboratory safety, quality control, professionalism, scope of practice, research applications, and educational methodologies are topics included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program

**NSCI 4210 CLINICAL LABORATORY MANAGEMENT II (1 credit)**

This course builds on the study of the basic concepts and principles of the management process introduced in NSCI 4200 Clinical Laboratory Management I. Laboratory compliance and regulatory issues, financial resource management, human resource management, method validation, professionalism, and quality management are topics included in this course.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program; NSCI 4200.

**NSCI 4230 MEDICAL LABORATORY SCIENCE CLINICAL CORRELATION (2 credits)**

This is a comprehensive course that uses lecture and case studies as an in-depth review of the theory and laboratory findings in all areas of the clinical laboratory including: immunology & serology, chemistry, hematology, immunohematology, microbiology, and microscopy. Practical application and correlation of clinical laboratory data, disease states, and diagnoses are emphasized.

**Prerequisite(s):** Enrollment in the Nebraska Methodist Hospital Medical Laboratory Science Program; NSCI 4080; NSCI 4100; NSCI 4120; NSCI 4140; NSCI 4160; NSCI 4180

## Neuroscience (NEUR)

### Neuroscience Undergraduate Courses

**NEUR 1000 SUPERHEROES, ZOMBIES, CYBORGS AND DROIDS: COULD THEY LIVE AMONG US? (3 credits)**

Neuroscience is constantly pushing the boundaries of what is possible, and concepts once relegated to the realm of science fiction are quickly becoming not only possible, but inevitable. In this course, we will use superheroes, zombies, cyborgs, and droids as vehicles into the wonderful and exciting world of neuroscience and how the brain and nervous system function. Mind control, enhanced strength, artificial brains...these may all seem like pure fantasy, but the reality may surprise you. This course fulfills the General Education: Natural and Physical Sciences requirement.

**Prerequisite(s):** High School Biology and High School Chemistry recommended. Not open to non-degree graduate students.

**Distribution:** Natural/Physical Sci General Education lecture

**NEUR 1520 INTRODUCTION TO NEUROSCIENCE I (3 credits)**

The nervous system is intricate, complex, and is the subject of one of the most exciting fields in the life sciences. This course is part 1 of a 2-semester sequence designed for neuroscience majors or students who are contemplating neuroscience as a major. This course will focus on understanding how the nervous system interacts at the cellular and molecular levels: anatomy and function of neurons, communication within and between neurons, and how neurons interact to perceive and process sensory information.

**Prerequisite(s):** High school biology and chemistry. Not open to non-degree graduate students.

**NEUR 1540 INTRODUCTION TO NEUROSCIENCE II (3 credits)**

The nervous system is intricate, complex, and is the subject of one of the most exciting fields in the life sciences. This course is part 2 of a 2-semester sequence designed for neuroscience majors or students who are contemplating neuroscience as a major. This course will focus on understanding how the nervous system interacts at the organismal, behavioral and cognitive levels: how the nervous system develops, how the motor system, hormones, and physiology influences behavior, and how cognition and systems neuroscience leads to understanding of the mind.

**Prerequisite(s):** NEUR 1520 or permission of instructor. Not open to non-degree graduate students.

**NEUR 1560 NEUROSCIENCE PATHWAYS TO DISCOVERY (3 credits)**

Experience the tools, strategies, challenges, and joy of discovery in neuroscience in a hands-on, active-learning environment. This laboratory/lecture course will introduce concepts of research exploration, guide students in developing topics for experimentation, and help students build ways to assemble the pieces needed to answer questions in neuroscience.

**Prerequisite(s):** Recommend concurrent with NEUR 1520 or NEUR 1540. Not open to non-degree graduate students.

**NEUR 3500 BIOLOGICAL PRINCIPLES OF AGING (3 credits)**

The Biological Bases of Aging Course provides a survey of the primary topics in the biology of aging field for undergraduate students. This a required course for the Gerontology major. By the end of the course, students will understand major theories, biological methods, and seminal research studies in the biology of aging field. Furthermore, students will learn how to critically analyze and interpret primary research about biological aging. This course provides preparation for students considering graduate school in gerontology or biology, geriatric nursing and social work, geriatric medicine, neuroscience, psychology, and exercise science. (Cross-listed with GERO 3500, BIOL 3500)

**Prerequisite(s):** Sophomore/Junior/Senior Standing. Not open to non-degree graduate students.

**NEUR 3600 RESEARCH METHODS IN NEUROSCIENCE (3 credits)**

In this course, students will get an introduction to how neuroscientists acquire, interpret, discuss, and share knowledge. Skills covered include study design, reading primary research articles, interpreting statistics, and writing scientific papers.

**Prerequisite(s):** PSYC 3130 or STAT 3000, and ENGL 1160 (or permission of Instructor) Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**NEUR 4000 SYSTEMS NEUROSCIENCE (3 credits)**

This course is designed to provide a solid understanding of the peripheral and central connections that make the systems of the body function. Data and theories of brain-behavior relationships from current research in neuroscience will be discussed. (Cross-listed with NEUR 8006).

**Prerequisite(s):** NEUR 1520 and NEUR 1540 or permission. Not open to non-degree graduate students.



**NEUR 4050 ADVANCED BIOLOGY OF AGING (3 credits)**

This course covers biological aging topics at an advanced level, and is designed for undergraduate and graduate students who have some prior knowledge about biology or aging. The course will be interdisciplinary in nature and focus on topics relevant to gerontology, biology, psychology, and exercise science. Students will learn how to think critically about primary research in the biology of aging. Furthermore, they will apply their knowledge of the biology of aging field by creating a handbook of healthy aging for older adults. (Cross-listed with GERO 4050, GERO 8056).

**NEUR 4160 NEUROPHARMACOLOGY (3 credits)**

Neuropharmacology will introduce students to ligand-receptor interactions and their effects on behavior, cognition, and development. This course will characterize the molecular structure of ligands and how these small molecules or biologics affect central nervous system receptors and transporters. Students will learn about structure-activity relationships and principles of pharmacology: distribution, metabolism, pharmacokinetics, and elimination) and explore the historical milestones in drug development. We'll also discuss the dynamic actions of drugs of abused drugs and the mechanisms of action. For undergraduate Neuroscience Majors, the course counts as a Neuroscience Block 1. (Cross-listed with NEUR 8166, PSYC 4160, PSYC 8166).

**Prerequisite(s):** Need at least one: NEUR 1520 or NEUR 1540 or PSYC 1020 or BIOL 1450. And need NEUR 3600 or PSYC 3140. PSYC 4230 recommended for students who have not taken NEUR 1520 or BIOL 1450.

**NEUR 4200 ADVANCED NEUROSCIENCE LABORATORY (3 credits)**

This course is designed as a capstone laboratory course for Neuroscience majors. The course will provide students with hands-on experience in collecting data in diverse areas of neuroscience, analyzing these data, interpreting the data, and preparing written and verbal presentations of the data.

**Prerequisite(s):** NEUR 1520, NEUR 1540, and PSYC 3140 or NEUR 3600. Junior or Senior status or permission of Instructor. Not open to non-degree graduate students.

**NEUR 4230 BEHAVIORAL NEUROSCIENCE (3 credits)**

A comprehensive study of the relationship of the nervous and other organ systems to behavior. Research on both human and other animal species is considered. (Cross-listed with PSYC 4230).

**Prerequisite(s):** BIOL 1450 OR PSYC 1010

**NEUR 4290 NEUROETHOLOGY (3 credits)**

In the field of Neuroethology a major goal is to understand the neural bases of animal behaviors in a natural context. In this course students will investigate how behaviors are generated and modulated by the nervous system in organisms ranging from insects to mammals. We will explore the neural mechanisms underlying a variety of animal behaviors as they interact with their natural environment ranging from sensory perception of the world (e.g. echolocation, electrolocation), to locomotor movements (e.g. flying, swimming), to more complex behaviors (e.g. learning, memory). (Cross-listed with NEUR 8296, BIOL 4290, BIOL 8296, PSYC 8296).

**Prerequisite(s):** NEUR 1520, NEUR 1540 and BIOL 1750; or by permission of instructor. Not open to non-degree graduate students.

**NEUR 4330 SOCIAL NEUROSCIENCE (3 credits)**

This course will evaluate the biological substrates of sociality and social behavior, and examine how brain events bias social behavior and cognition, as well as how social behavior and cognition influence brain functioning. We will explore the neural mechanisms that inform social behavior and explain our ability to recognize, understand and interact with others. Cutting edge questions on concepts such as love, trust, empathy and prejudice will also be explored. (Cross-listed with NEUR 8336, PSYC 8336).

**Prerequisite(s):** NEUR 1520 and NEUR 1540 or permission of Instructor. Not open to non-degree graduate students.

**NEUR 4340 ADVANCED BEHAVIORAL NEUROSCIENCE (3 credits)**

Building on content from Introductory Neuroscience courses, this course will deeply explore the fundamental link between behavior and biological processes. Prepare to unravel the mysteries of behavior, cognition, emotions, sensory systems, and disorders by exploring cutting-edge neuroscience methods to reveal the specific cells and neurobiological processes that give rise to human and animal behavior. PSYC 4230 should not be taken after the completion of this course. (Cross-listed with NEUR 8346, PSYC 4340).

**Prerequisite(s):** NEUR 1520 and NEUR 1540, or PSYC 4230

**NEUR 4480 NEUROIMMUNOLOGY (3 credits)**

The course explores the bi-directional mechanisms by which the brain and the immune system communicate with each other in health and during injury or infection. This course also introduces human immunology as a basis for understanding the advanced content in neuroimmunology. Topics include innate immunity in the central nervous system (CNS), inflammation in neurodegenerative diseases, CNS infections and autoimmune diseases. Reading and evaluating neuroimmunology primary literature, presentation and scientific writing will be emphasized. Counts as a Neuroscience Block 1 course requirement. (Cross-listed with NEUR 8486).

**Prerequisite(s):** NEUR 1520 and NEUR 1540, or permission of Instructor.

**NEUR 4640 NEURAL MECHANISMS OF SUBSTANCE USE DISORDERS (3 credits)**

This course details how the brain changes during and after the administration of illicit substances. Illicit drugs 'hijack' the natural reward pathways and brain circuits. Material highlights brain regions, neural circuits, and structural alterations that accompany illicit drug use. Modern neuroscience research techniques that measure and manipulate brain function reveal opportunities for therapeutic interventions. The course will explore how therapeutic interventions repair the brain. (Cross-listed with NEUR 8646).

**Prerequisite(s):** NEUR 1520 and NEUR 1540 and either NEUR 3600 or PSYC 3140.

**NEUR 4650 NEUROMECHANICS OF HUMAN MOVEMENT (3 credits)**

A study of basic principles of neural process as they relate to human voluntary movement. Applications of neural and mechanical principles through observations and assessment of movement, from learning to performance, as well as development. (Cross-listed with BMCH 4650).

**Prerequisite(s):** NEUR 1540 or permission of instructor

**NEUR 4810 BEHAVIORAL GENETICS (4 credits)**

This lecture and laboratory course will explore the interaction between behavior and genetics. Topics addressed will include research systems used in behavioral genetics research, ways of studying animal behavior, gene function, gene expression, genetic manipulation, genome sequencing, and bioinformatics. Research techniques will include behavioral observations, cognition assays, and traditional and cutting edge genetics research techniques and analyses (DNA/RNA isolation, PCR, gel electrophoresis, transgene generation, quantitative PCR, next generation sequencing). Students will design, conduct, analyze, and present semi-independent research projects over the course of the semester. (Cross-listed with BIOL 4810).

**Prerequisite(s):** BIOL 2140

**NEUR 4840 GLIA IN HEALTH AND DISEASE (3 credits)**

While neurons are often highlighted as the primary drivers of brain function, evidence is rapidly growing that a lesser-known class of cells, glia, are intimately involved in virtually all aspects of central nervous system function. This course is designed for students looking for an in-depth discussion on the various glial cells of the central system, with an emphasis on cutting-edge research and the techniques used to study them. Counts as a Block 1 Neuroscience requirement. (Cross-listed with NEUR 8846).

**Prerequisite(s):** NEUR 1520 or NEUR 1540, or permission of Instructor.

**NEUR 4850 NEUROBIOLOGY OF LEARNING AND MEMORY (3 credits)**

This course will evaluate the neurobiology of learning and memory. In this course students will explore how learning and memory processes are encoded and stored at the cellular and molecular neurobiology levels. We will examine both classic and cutting edge studies to see how changes in molecular activity, genetics, and cellular physiology can influence learning and memory processes. Counts as a Block 1 course for Neuroscience Majors. (Cross-listed with NEUR 8856).

**Prerequisite(s):** NEUR 1520 & NEUR 1540 or Instructor Permission. Not open to non-degree graduate students.

**NEUR 4870 MOLECULAR AND CELLULAR NEUROBIOLOGY (3 credits)**

This course presents foundational topics in molecular and cellular neurobiology in the context of how the nervous system is functionally organized. Topics include: nervous system cell types and their subcellular organization; electrical properties of neurons and glia; energy metabolism and biochemistry of the brain; intra- and intercellular neuronal signaling; the regulation of gene expression in neuronal cells; synaptic plasticity; and how these are altered in disease. (Cross-listed with BIOL 4870, BIOL 8876, NEUR 8876).

**Prerequisite(s):** NEUR 1500, or both NEUR 1520 and NEUR 1540, or BIOL 3020, or permission of instructor.

**NEUR 4890 GENES, BRAIN, AND BEHAVIOR (3 credits)**

This course will evaluate the complex interaction between an organism's genome and neural activity pattern in the nervous system as related to behavior. In this course students will explore how changes in gene expression (allelic variants, epigenetics, differential regulation) and gene networks within neural tissue can reciprocally influence behaviors such as communication, foraging, reproduction, and cognition. (Cross-listed with NEUR 8896, BIOL 4890, BIOL 8896, PSYC 8896).

**Prerequisite(s):** NEUR 1520, NEUR 1540, and BIOL 2140. Or by permission of instructor. Not open to non-degree graduate students.

**NEUR 4910 SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 1 (3 credits)**

Fulfills Neuroscience BLOCK 1 or Neuroscience Elective requirement. A study of designated special topic in neuroscience. Students may repeat this class as long as the specific topic is not duplicated.

**Prerequisite(s):** NEUR 1520, junior-senior status (sophomore status by permission), or instructor permission. Not open to non-degree graduate students.

**NEUR 4920 SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 2 (3 credits)**

This course fulfills Neuroscience BLOCK 2 or Neuroscience Elective requirements. A study of designated special topic in neuroscience. Students may repeat this class as long as the specific topic is not duplicated.

**Prerequisite(s):** NEUR 1520 or NEUR 1540, junior-senior status (sophomore status by permission), or instructor permission. Not open to non-degree graduate students.

**NEUR 4930 SPECIAL TOPICS IN NEUROSCIENCE - NEURO ELECTIVE BLOCK (3 credits)**

This course will provide for an in-depth study of a designated topic in neuroscience that is different than the focus of an existing course in the neuroscience curriculum. Students may repeat this class as long as the specific topic is not duplicated. Fulfills a Neuroscience Elective requirement.

**Prerequisite(s):** NEUR 1520 or NEUR 1540, or Instructor permission.

**NEUR 4960 EXPERIENTIAL STUDY IN NEUROSCIENCE (1-6 credits)**

Focused research projects, data analysis, and/or directed readings with faculty supervision. Oral and written reports based on empirical research are expected outcomes.

**Prerequisite(s):** NEUR 1520; PSYC 3130. PSYC 3140 recommended. Instructor permission required.

## Pharmaceutical Sciences (PHSI)

### Pharmaceutical Sciences Undergraduate Courses

**PHSI 1010 INTRODUCTION TO FOUNDATIONS AND CAREER PATHS IN PHARMACEUTICAL SCIENCES (1 credit)**

This course provides an overview to the field of pharmaceutical sciences. It will discuss the roles of a pharmaceutical scientist and the career options one can pursue in pharmaceutical sciences. A description will be given for how a Bachelor of Science in Pharmaceutical Sciences (BSPS) degree prepares one for these options. Lectures will be given by UNMC/ UNO faculty and practitioners in these fields. This course will introduce professional development related to pharmaceutical sciences, including concepts for application preparation for professional and graduate careers.

**PHSI 2920 SPECIAL TOPICS IN PHARMACEUTICAL SCIENCES (2 credits)**

More thorough examination of a pharmaceutical sciences topic than in the regular curriculum. Content (e.g., advocacy, alternative medicine) will vary with offering.

**Prerequisite(s):** PHSI 1010 with a grade of C- or higher

**PHSI 3110 CURRENT RESEARCH TOPICS IN PHARMACEUTICAL SCIENCES (1 credit)**

This course will provide the student with examples of how pharmaceutical science research is being applied to solve problems in the pharmaceutical industry. The basic approach for each lecture will be: 1) introduction to a disease state, 2) the current therapy for the disease state, 3) identification of the problems with this therapy and, 4) research underway to solve the problem. Lectures will be given by faculty members in the UNMC Departments of Pharmaceutical Sciences and Pharmacy Practice, UNO Department of Chemistry or special guests from industry and academia. Offered in Fall semesters.

**Prerequisite(s):** Prior completion of CHEM 2260 and CHEM 2274 with minimum grades of "C-" and passing score in PHSI 1010 OR instructor permission.

**PHSI 3210 FOUNDATIONS OF MOLECULES TO MEDICINE (3 credits)**

The first of a two courses sequence about the processes of drug discovery and how molecules become medicines. Emphasis will be placed on natural products and synthesized drugs, and the aspects involved in bringing drugs to the market (including target identification, validation, lead optimization, absorption/distribution/metabolism/excretion (ADME) phases and studies, investigational new drug (IND) options, and clinical trials).

**Prerequisite(s):** "C-" grade or higher in CHEM 2260 & CHEM 2274, and PHSI 1010. Also required: Concurrent enrollment in CHEM 4650 and 4654 or prior completion with minimum "C-" grade; OR instructor permission.

**PHSI 3310 APPLICATIONS OF MOLECULES TO MEDICINE (3 credits)**

Applications of Molecules to Medicines is a team taught course that will introduce students to five specific disease states and how commonly prescribed medications are used to improve patient outcomes. Emphasis will be placed on a basic understanding of disease pathogenesis and the medicinal and pharmacologic basic of specific medications that are prescribed and administered to patients in addition to determining whether the medication improves patient outcome.

**Prerequisite(s):** Prerequisites: "C-" grade or higher in CHEM 2260 & CHEM 2274, and PHSI 1010. Also required: Concurrent enrollment in CHEM 4650 and 4654 or prior completion with minimum "C-" grade; OR instructor permission.

**PHSI 4010 INTRODUCTION TO PHARMACEUTICAL SCIENCE (3 credits)**

Introduction to pharmaceutical terminology, drug discovery and development process, concepts and principles of pharmaceutical formulation and delivery, functional group chemistry, acid/base chemistry of drug molecules, chemical basis of drug action, receptor concepts, basic pharmaceutical calculations, principles of chemical kinetics and stability. **Prerequisite(s):** Completion of MATH 1940 or MATH 1950; and CHEM 2260, CHEM 2274 with a C- or higher; completion with a C- or higher or co-enrollment in CHEM 4650 and 4654 or permission of instructor. Not open to non-degree graduate students.

**PHSI 4210 CONTEMPORARY USE OF MEDICINES (2 credits)**

This course provides an overview of medication access and use in the US considering innovation and general health care system dynamics. Discussions of current practices and trends will highlight key factors that pharmacists face in their profession, including social, policy, and behavioral factors that influence medication use in the United States. The course includes the perspectives of key stakeholders including providers, patients, payers, and the pharmaceutical industry.

**Prerequisite(s):** PHSI 1010 with a grade of "C-" or higher

**PHSI 4410 PHARMACEUTICAL SCIENCES RESEARCH EXPERIENCE (1 credit)**

Practical research experience for students in the bachelor of science program in Pharmaceutical Sciences. Students will work with faculty in UNO Chemistry with accepted PHSI research or UNMC Pharmaceutical Sciences or Pharmacy Practice to select and approve a research laboratory where they will carry out an independent investigation for one semester. Typically offered Fall and Spring semesters.

**Prerequisite(s):** "C-" or better in CHEM 4650 & 4654, PHSI 1010, and PHSI 3110; or permission of instructor.

**PHSI 4510 ADVANCED RESEARCH EXPERIENCE IN PHARMACEUTICAL SCIENCES (1 credit)**

The second of two courses of practical research experience for students in the Bachelor of Science program in Pharmaceutical Sciences. Students will work with faculty in UNO Chemistry or UNMC Pharmaceutical Sciences or Pharmacy Practice to select a research laboratory where they will carry out an independent investigation over the course of the semester.

**Prerequisite(s):** "C-" or better in CHEM 4650 & 4654, PHSI 1010, PHSI 3110 and PHSI 4410; or permission of instructor.

**PHSI 4920 ADVANCED SPECIAL TOPICS IN PHARMACEUTICAL SCIENCES (2 credits)**

In depth examination of a pharmaceutical sciences topic not offered in the regular curriculum. Content (e.g., Medicine and Cannabis) will vary with offering.

**Prerequisite(s):** PHSI 1010 with a grade of C- or higher, CHEM 2260 with a grade of C- or higher or permission of instructor

# Philosophy (PHIL)

## Philosophy Undergraduate Courses

**PHIL 1010 INTRODUCTION TO PHILOSOPHY: MEANING OF LIFE (3 credits)**

We all find ourselves at one point or another wondering what everything adds up to. This sentiment manifests itself as different questions: 'why are we here?', 'what's my purpose?', 'how can I lead a fulfilling life?', or, perhaps most relevantly, 'what is the meaning of life?'. Now that you're in college, these questions are of the essence. Where will you go from here? Which skills should you develop? Which major should you choose? What should you pursue? Love? Family? Friendship? Education? Career? Fame? Fortune? Religious devotion? Service to others? Fulfillment? Happiness? What does it mean to be happy or fulfilled? In this course, we're going to set all else aside and dedicate real effort to coming to grips with these questions. Our focus will be on developing our ability to think about what we're asking and acquiring the tools necessary to assess the responses on offer.

**Distribution:** Humanities and Fine Arts General Education course

**PHIL 1020 CONTEMPORARY MORAL PROBLEMS (3 credits)**

Introduction to the application of basic moral concepts and theories to contemporary moral issues. Discussion topics will vary and may include: distribution of wealth and resources, environmental ethics and sustainability, animal rights, capital punishment, torture, euthanasia, abortion, cloning, genetic engineering, privacy rights, drug laws, marriage and sexuality, gun control, and affirmative action.

**Distribution:** Humanities and Fine Arts General Education course

**PHIL 1030 INTRODUCTION TO PHILOSOPHY: BRAINS, MINDS, AND MACHINES (3 credits)**

Introduction to Philosophy: Brains, Minds, and Machines examines central questions in philosophy about the nature of the mind, the self, human rationality, perception/experience, and technology through the lens of work in cognitive science, neuroscience, artificial intelligence, and psychology. Some major topics and questions include: What are minds? Is the human mind a digital computer? Could a machine - e.g., a robot or a computer - be truly intelligent, or have experiences like humans and animals do? How does the brain "represent" its environment? In engaging these questions, the course also introduces students to foundational issues in cognitive science and artificial intelligence including: nativism vs. empiricism, mental representation, classical artificial intelligence vs. neural networks, modularity, evolutionary psychology, embodied cognition, and extended cognition.

**Distribution:** Humanities and Fine Arts General Education course

**PHIL 1040 INTRODUCTION TO PHILOSOPHY: LAW, POLITICS, AND SOCIETY (3 credits)**

A first course in philosophy designed to introduce students to the foundational theories and concepts of legal philosophy, ethics, and social/political philosophy. Students engage theories and concepts by exploring how they are relevant to life in contemporary society. Discussion topics may include free speech, immigration, racism, authoritarianism and populism, human rights, and humanitarian intervention.

**Distribution:** Humanities and Fine Arts General Education course

**PHIL 1050 INTRODUCTION TO PHILOSOPHY: PHILOSOPHY, TECHNOLOGY, AND SCIENCE FICTION (3 credits)**

This course introduces core philosophical ideas through a selection of accessible science fiction short stories and films. Does a society's technology determine its values and development? Does technology reflect our values or is it neutral? How does the development of new technologies help or harm people? Will ordinary humans be overtaken by artificially intelligent machines? Can an algorithm make ethical decisions? We will be exploring these questions in the philosophy of technology through how technological advances have been presented in science fiction. In addition, we will also be exploring the philosophical issues around how biological systems could be manipulated. What are the prospects and dangers of biohacking? What are the boundaries of what makes us human? How could different life and ecosystems evolve? How would alien life evolve? Finally, the course will ask questions about the boundaries of science. Should scientists refrain from researching certain scientific questions for ethical reasons?

**Distribution:** Humanities and Fine Arts General Education course

**PHIL 1210 CRITICAL REASONING (3 credits)**

A study of the principles of correct reasoning: induction, deduction, formal and informal fallacies. Critical reasoning is excellent preparation for the LSAT and the reasoning portions of other examinations for graduate study.

**Distribution:** Humanities and Fine Arts General Education course

**PHIL 1230 LOGICAL REASONING FOR STANDARDIZED GRADUATE EXAMINATIONS (3 credits)**

This course offers an intensive, boot-camp training in logical reasoning which emphasizes the specific skills needed to solve the logic problems included on many standardized graduate admissions exams, such as the LSAT (Law School Admission Test), GMAT (Graduate Management Admission Test), and MCAT (Medical College Admission Test). Substantial portions of these exams assess critical reasoning and logical problem solving ability. This course offers a condensed review of logical techniques required to analyze and solve such problems, not only with the goal of improving student performance on exams, but also because examining the underlying structure of these reasoning problems helps to improve logical analysis and evaluation skills across a wide range of other purposes.

**PHIL 2010 SYMBOLIC LOGIC (3 credits)**

A first course in symbolic logic designed to introduce students to formal systems of sentential logic and predicate logic. The course explores the nature of both syntax (the formal structure of elements of language) and semantics (interpretive relations between language and subject matter including notions such as truth and reference). Students learn how to translate between English and formal languages, how to construct truth-tables and interpretations to test for key semantic properties, and how to construct derivations. In addition, students will consider the nature and relationships between important logical properties and explore foundational issues in logical metatheory. Throughout the course, students will encounter broad philosophical themes such as the purpose of language, constraints on translation, and nature of meaning itself. (The study of logic is also excellent preparation for the LSAT and the reasoning portions of other examinations for graduate study.) (Cross-listed with MEDH 2010).

**PHIL 2020 INTRODUCTION TO PHILOSOPHY OF MIND (3 credits)**

This course is an introductory overview of fundamental issues in the study of mind, thinking, and consciousness. Students explore these philosophical issues from the perspective of current research in psychology, neuroscience, linguistics and computer science.

**PHIL 2030 INTRODUCTION TO ETHICS (3 credits)**

A critical study of basic moral concepts and problems contained in ethical theories of important western philosophers: relativism, egoism, happiness, obligation, justice, freedom, conscience, love, religious precepts, moral rules, moral attitudes and moral language.

**Distribution:** Humanities and Fine Arts General Education course

**PHIL 2040 INTRODUCTION TO EAST ASIAN PHILOSOPHY (3 credits)**

This course makes a critical and philosophical inquiry into the fundamental questions raised in East Asian Philosophy, typically including a critical evaluation of the traditional theories in Confucianism, Buddhism, and Taoism of China, Korea, and Japan, as well as contemporary responses to those theories, e.g., Kyoto School or Maoism.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**PHIL 2300 BIOMEDICAL ETHICS (3 credits)**

In the rapidly evolving fields of medicine and healthcare, ethical considerations play an ever-increasing role. This course is designed to equip students with the conceptual tools necessary for ethical reasoning and decision-making in medical contexts. This course investigates critical issues such as informed consent, end-of-life decisions, reproductive ethics, genetic testing, and research ethics. Ideal for students thinking about a career in healthcare, philosophy majors, medical humanities majors, or anyone interested in grappling with the complex ethical questions that accompany advancements in biomedical science and healthcare practice. (Cross-listed with MEDH 2300).

**PHIL 3000 PHILOSOPHY WRITING SEMINAR (3 credits)**

This course focuses on writing instruction, with a particular emphasis on logical argument, editing and revision, and research methods in the discipline of philosophy. It is designed for students who are beginning to take upper-level coursework and is suitable for Philosophy majors, minors, and non-majors, particularly those who seek additional preparation in argument-focused writing.

**Prerequisite(s):** Composition II or the equivalent, and three hours of Philosophy, are required.

**Distribution:** Writing in the Discipline Single Course

**PHIL 3010 PHILOSOPHY OF JUSTICE (3 credits)**

An examination of the concept of justice from Greek moral philosophy to modern moral philosophy with focus on the problems of modern moral philosophy and the application of those ideas in government and society.

**Prerequisite(s):** Junior or 3 credits in philosophy.

**PHIL 3020 THE JUSTIFICATION OF PUNISHMENT (3 credits)**

The course examines the major philosophical arguments concerning the conditions under which punishment is justifiable, and provides a background of ethical theory in order to make these arguments comprehensible.

**Prerequisite(s):** Junior, or 3 credits in philosophy, or 1 course in criminology & criminal justice.

**PHIL 3040 PHILOSOPHY OF LAW (3 credits)**

An overview of central issues in the philosophy of law, including the nature, source, and legitimacy of law, the relationship between law and morality, competing theories of legal reasoning and interpretation, the sources and structure of rights and responsibilities, and theories of punishment.

**Prerequisite(s):** Junior standing or 6 hours in Philosophy.

**PHIL 3050 ETHICAL THEORY (3 credits)**

This course surveys issues and controversies in meta-ethics, that is, in the theoretical understanding of ethics. A central organizing question is whether or not there are objective ethical facts that we use ethical language to report and discuss. If there are ethical facts, what kind of facts are they and how could we know them? There seems to be no scientific experiment or mathematical proof which could demonstrate an ethical claim. If there are no ethical facts, is ethics simply a matter of emotional self-expression, arbitrary cultural norms, or the like? If so, can there be significant ethical truth and substantive ethical knowledge? All in all, students will survey a variety of proposals on the fundamental nature of ethics and develop an understanding of their relative strengths and weaknesses.

**Prerequisite(s):** PHIL 2030 or 6 hours in philosophy or permission of instructor.



**PHIL 3060 VALUES AND VIRTUES (3 credits)**

This course explores advanced topics in ethics with particular emphasis on value theory and virtue ethics. Topics to be considered include the meaning and status of value claims, sources of value, intrinsic goods, agent-relative goods, practical reason, moral development, happiness, moral ambiguity, moral luck, the identification of virtues, and relationships of care, trust, and responsibility. This course supports the Ethics and Values concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with CACT 8215)

**PHIL 3070 LEADERSHIP ETHICS IN PRACTICE (3 credits)**

In today's complex and interconnected world, ethical leadership is a necessity. Ethical leaders inspire trust, foster a positive organizational culture, and drive sustainable success. This course aims to equip future leaders with the essential moral knowledge and reasoning skills required to navigate the broad and difficult challenges they will confront. In particular, students will study the philosophical foundations of ethical leadership, examine how these illuminate historical and contemporary cases of leadership success and failure, and apply the lessons to their own experience. In short, this course aims to cultivate the ethical leadership skills that will not only propel careers but will help students meaningfully contribute to a better, more responsible world.

**PHIL 3110 HISTORY OF ANCIENT PHILOSOPHY (3 credits)**

A survey of the major philosophers and schools of ancient Greece and Rome: pre-Socratics, Plato, Aristotle, Cynics, Epicureans, Stoics, Skeptics, and Neo-Platonists. The original texts examined in this course explore fundamental questions about the purpose of human life and the value of self-examination, the nature of the universe and possibility of knowledge, and the achievement of virtue and human happiness.

**PHIL 3130 HISTORY OF MODERN PHILOSOPHY (3 credits)**

The Modern Period (roughly 1600 to 1800) was a time of great scientific advancement, political upheaval, and philosophical progress. During this period, philosophers wrestled with fundamental metaphysical questions about the nature of matter, causation, mind, and God, key epistemological questions regarding the nature and grounds of knowledge, and central ethical and political questions about our rights and duties. As such, the philosophical work of this period provides the foundations for contemporary work in epistemology, metaphysics, philosophy of mind, philosophy of science, ethics, and political philosophy. In this course, students will explore the interpretation and implications of work by some of the most influential thinkers of the period such as Descartes, Spinoza, Locke, Leibniz, Berkeley, Hume, Reid, and Kant.

**Prerequisite(s):** 3 hours in Philosophy or permission of the instructor.

**PHIL 3140 NINETEENTH CENTURY PHILOSOPHY (3 credits)**

An examination of major views in 19th century philosophy including the development of German idealism, British empiricism, and Marxism. Special attention will be paid to the origins of existentialism, pragmatism, and modern empiricism as reactions to 19th century positions.

**Prerequisite(s):** Junior or permission of instructor.

**PHIL 3150 PHILOSOPHY OF HISTORY (3 credits)**

This course is designed to introduce students to the thinkers and issues in the philosophy of history (and historiography). After being coined by Voltaire, the term 'philosophy of history' has taken on different meanings. Prior to the twentieth century, philosophy of history meant speculation over the course and aims of history. It sought to investigate the subject matter of history, that is, the historical process itself. Consequently, philosophers of history aimed at comprehensive views of this process. During the twentieth century, however, philosophy of history became "analytical or critical." The aim of this approach is to question and criticize the ways that historians work, so issues of knowledge and explanation have become very important for the present-day philosopher of history. Although the course takes a thematic approach to the study of the philosophy of history, prominent philosophers who have investigated history will be introduced throughout the course.

**Prerequisite(s):** Junior or 3 credits in philosophy.

**PHIL 3170 ETHICS IN BUSINESS (3 credits)**

An application of ethical principles to moral issues arising in business: corporate responsibility and agency, fiduciary duties, discrimination, advertising, whistle-blowing, trade secrets, environmental protection, product safety and liability, employee rights, government regulation, investment and duties to shareholders, commodification and consumerism.

**Distribution:** Humanities and Fine Arts General Education course

**PHIL 3180 ENVIRONMENTAL ETHICS (3 credits)**

This course introduces students to the thinkers and issues that make environmental ethics what it is today. It includes the analysis and evaluation, from ethical viewpoints, of such topics as: intrinsic value of animals, plants and ecosystems; animal rights; climate change; conservation and preservation; environmental law and politics; obligations to future generations; sustainability and new technologies; war, immigration, and the environment; human rights and the environment; nature and the built environment; and environmental activism. (Cross-listed with ENVN 3180).

**Prerequisite(s):** Junior or 3 hours of philosophy.

**PHIL 3200 PHILOSOPHY OF RELIGION (3 credits)**

What must a being be like to be rightfully called "God"? Why think that such a being exists? Why would such a being allow there to be suffering and evil in the world? Could you ever be justified in believing that a miracle occurred? Are faith and reason compatible? What is the role of religion in morality? Students will consider these BIG questions and the best answers to them.

**PHIL 3210 SOCIAL PHILOSOPHY (3 credits)**

An examination of the problems and concepts of social and political philosophy.

**Prerequisite(s):** 3 credits in philosophy or junior or permission of instructor.

**PHIL 3220 PHILOSOPHY OF ART (3 credits)**

The course is an inquiry into historical and contemporary philosophical perspectives on the making, interpreting and criticizing of works of art, including relations of the arts to other dimensions of cultures. Students will wrestle with foundational questions (e.g., "What is beauty?", "What is art?", "What makes good art good?", "Is there a right way to interpret art?"), consider connections between art and ethics, culture, and politics (e.g., "Can an artwork be both immoral and good?", "Can a particular culture have exclusive rights to an artform?", "How does public art create political communities and divisions?"), explore questions within particular arts (e.g., "Can music represent?", "Why do we respond emotionally to fictions?"), and experience and evaluate art in light of these investigations. (Cross-listed with PHIL 8225)

**Prerequisite(s):** Junior or 3 credits in philosophy.

**PHIL 3230 PHILOSOPHY AND POPULAR MEDIA (3 credits)**

This course examines Philosophy in the context of contemporary popular media including graphic novels, interactive art, video games and VR worlds, or other still-emergent formats. The specific forms of popular art or media selected as a focus area during each term may change in successive course offerings, to suit thematic emphases or new developments (e.g. webseries graphic novels, video games and their associated literature, fictional universes shared between comics and film).



**PHIL 3260 HISTORY OF AMERICAN PHILOSOPHY: 20TH CENTURY (3 credits)**

This course is designed to introduce students to the thinkers and movements in 20th century American thought, particularly pragmatism, idealism, naturalism, new realism, and critical realism. One chief concern is the issue of what constitutes American philosophy. Is there such a thing as "American philosophy"? This course is intended to address this issue. To set the stage for a look at 20th century philosophical thought, students will briefly look at American thought prior to the 20th century: Puritan thought, the American Enlightenment, and Transcendentalism (Emerson and Whitman). Students will then examine the classical American pragmatists (Royce, Peirce, James, and Dewey), as well as contemporary pragmatists (Rorty, Fraser, Putnam, and Hacking). The course will end with a look at naturalism, new and critical realism, and contemporary moral, social, and political philosophy.

**Prerequisite(s):** Junior or 3 credits in philosophy.

**PHIL 3300 EARLY ANALYTIC PHILOSOPHY (3 credits)**

This course focuses on the foundations of the Analytic tradition (from 1879 to 1930). During this period, central figures such as Gottlob Frege, Bertrand Russell, G.E. Moore, Ludwig Wittgenstein, and Frank Ramsey aimed to bring clarity and precision to a wide range of philosophical problems by focusing on fundamental issues in the philosophy of logic and the philosophy of language. Understanding the developments of this period is essential to understanding the development of philosophy in the 20th and 21st centuries.

**Prerequisite(s):** 3 credits in philosophy or permission of instructor.

**PHIL 3370 CONCEPTS OF NATURE (3 credits)**

An examination of key philosophical conceptions of nature from the Greeks through the 21st century. Topics covered include concepts of time, the cosmos, causation, determinism, natural law, the relationship between God and nature, and the place of humans and animals in nature.

**Prerequisite(s):** Previous experience in philosophy, especially PHIL 3110, would be helpful.

**PHIL 3400 PHILOSOPHY OF NATURAL SCIENCE (3 credits)**

An examination of the philosophical problems associated with the methods of the natural sciences, the presuppositions of scientific inquiry, and the nature of scientific laws and theories.

**Prerequisite(s):** 3 credits in philosophy or permission of instructor.

**PHIL 3410 PHILOSOPHY OF SOCIAL SCIENCE (3 credits)**

This course introduces students to central philosophical issues that are raised by and within the practice of social science. Some key questions are: In which respects is social science similar to natural science and in which respects is it dissimilar? Does social science aim at forming generalizable explanations, or does it seek to provide humanistic understanding? Can social science be conducted in a purely objective, disinterested way, or does the practice of social science always rely on at least implicit value assumptions? Must responsible researchers interrogate their research for such assumptions, and, if so, what does it take for research to "pass?"

**Prerequisite(s):** 3 credits in philosophy and junior, or permission of instructor.

**PHIL 3430 PHILOSOPHY OF BIOLOGY (3 credits)**

Philosophy of Biology will consider foundational conceptual issues in biology like the nature and structure of biological explanation, the possibility of laws in evolutionary theory, the relationship between different causal components of biological processes (genetics and development), the problem of species reality and classification, the explanatory character of ascription of biological function, and the extension of biological explanations to human psychology and culture. It is designed for both the philosopher who can explore central epistemological and metaphysical issues in the context of biological science and for the biologist who wants to explore the conceptual foundations and presuppositions of her science.

**Prerequisite(s):** 3 hours in philosophy or biology or permission of instructor.

**PHIL 3450 PHILOSOPHY OF MEDICINE (3 credits)**

This course considers a range of philosophical questions raised by and within the practice of medicine. The course begins with a conceptual investigation of the meaning of "health" from "illness." Is the classification of individuals as healthy or ill an objective, scientific matter? Or is it instead a matter of social and ethical values? What follows from answering this question one way, versus another? This introduction forms the backdrop against which we move on to investigate a range of further topics.

Examples of some of the topics that may be covered include: medical and social models of disability; the role morality of doctors and other medical providers; abortion, euthanasia, and conscientious objection in the healthcare professions; health measurement and quality of life; "death panels" and health resource rationing; conditions on appropriately voluntary and informed consent to medical procedures; and the ethics of biomedical research. (Cross-listed with MEDH 3450).

**Prerequisite(s):** 6 hours of Philosophy OR Sophomore status OR permission of the instructor

**PHIL 3480 PHILOSOPHY OF RACE (3 credits)**

Where does the concept of race come from? Where did the racial categories on the US census come from? How has the concept of race influenced scientific theories? Do empirical findings of genetic differences between racial groups show that races are biologically real? Why are racial categories used in medicine? Can all health disparities between races be explained by social factors? Is some particular concept of race necessary for political and social opposition to racism? The course will involve reading original articles and book extracts from a range of disciplines, including history, philosophy, and several sciences. These articles will be explained and discussed in class through a philosophical lens. The course aims to provide students with the philosophical tools and concepts to think about race and racism in a nuanced and reflective way.

**Prerequisite(s):** Sophomore Status OR 6 credit hours Philosophy OR Permission of the Instructor

**Distribution:** U.S. Diversity General Education course

**PHIL 3490 GENDER AND PHILOSOPHY (3 credits)**

This course examines philosophical arguments concerning gender and sexual difference, gender issues and women in the history of philosophy, and major views in feminist theory. Using arguments derived from feminist theory, we will undertake a critical inquiry into the ways in such gender, geography, and power inform political institutions and, in particular, medical research and health disparities. Taking the perspective of women's lives from across the globe through case studies, we will interrogate feminist theory in relation to non-US perspectives on gender and sexuality. (Cross-listed with WGST 3490).

**Prerequisite(s):** Sophomore status OR 6 hours of PHIL OR 6 hours of WGST.

**Distribution:** Global Diversity General Education course

**PHIL 3500 PROBLEMS IN PHILOSOPHY (3 credits)**

Seminar on specialized topic in philosophy. (See "Topic" in class search for specification of particular topic.)

**Prerequisite(s):** Junior or 6 hours in philosophy.

**PHIL 3510 PHENOMENOLOGY AND EXISTENTIALISM (3 credits)**

A critical examination of phenomenology and existentialism as historical and philosophical movements. Course focus includes such thinkers as Edmund Husserl, Martin Heidegger, Jean-Paul Sartre, and Simone De Beauvoir.

**Prerequisite(s):** Junior or 3 credits in philosophy or permission of the instructor.

**PHIL 3520 HERMENEUTICS IN PHILOSOPHY (3 credits)**

Introduction to hermeneutics or the notion of interpretation in certain thinkers and philosophy movements since the late 19thC. Focus includes Nietzsche, pragmatism, Heidegger, Gadamer, Frankfurt School, and Derrida. Course to exclude topics or things covered in PHIL3510.

**Prerequisite(s):** 3 hours in philosophy, junior, or permission of instructor.

**PHIL 3570 UNDERSTANDING SELF-DECEPTION (3 credits)**

What is it to deceive yourself? Why do we do it? Is it necessarily a bad thing? This course is designed to introduce students to a variety of problems associated with the issue of self-deception. Students will investigate the nature of self-deception from both philosophical and psychological perspectives. Students will apply foundational theories to explore the ethical implications of self-deception and the relation of self-deception to issues like imposter syndrome and the project of autobiography.

**PHIL 3600 EPISTEMOLOGY (3 credits)**

The course covers major theories and debates in Epistemology (i.e., the study of evidence, reasons, justification, warrant, knowledge, explanation, and understanding). The course covers both foundational structural debates (e.g., the structure of justification, the analysis for knowledge, the requirements of explanation, and the nature of understanding) and applied issues (e.g., expertise and testimony, peer disagreement, burden of proof, group deliberation and voting, epistemic bubbles and conspiracy theories, and the value of feelings of confidence, surety, and certainty).

**Prerequisite(s):** 6 hours of philosophy or permission of instructor.

**PHIL 3650 PHILOSOPHY OF MIND (3 credits)**

A discussion of various accounts of the nature of minds which focuses upon philosophical problems such as whether the mind is identical with the brain, the extent of similarities between human minds and computers, the nature of personal identity and the relationship of mental activity to behavior. (Cross-listed with PHIL 8655, PSYC 3650).

**Prerequisite(s):** No Prerequisites. Some prior coursework in Philosophy is recommended, but not required.

**PHIL 3700 SPACE, TIME, AND REALITY (3 credits)**

What is space? Is there more to space than the arrangement of things in it? What is time? Is time travel possible? What is the relation between space and time? This course introduces students to the study of the fundamental nature of reality with a focus on the elusive nature of space and time. The course places emphasis on the challenge of finding metaphysical truths about the world given the epistemic constraints imposed by our observational limits. Some representative views from the history of philosophy will be covered, though special attention will be given to contemporary debate.

**Prerequisite(s):** 3 hours of philosophy or permission of instructor.

**PHIL 3960 READINGS IN PHILOSOPHY (1-3 credits)**

Readings in specialized areas or individual problems in philosophy.

**Prerequisite(s):** Permission of instructor.

**PHIL 4000 ADVANCED PHILOSOPHY WRITING SEMINAR (3 credits)**

This is the capstone course of the philosophy major, designed to teach students to write at an advanced level. Students will present their own writing and critique the writing of others, under close guidance of the instructor. By the end of the seminar, each student will have produced a "journal-length" (approximately 20 page) paper on a philosophical topic, and gained extensive experience in revising papers and editing the work of others.

**Prerequisite(s):** Junior standing and 15 hours in philosophy including 9 hours consisting of 3000-level courses, or instructor permission. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**PHIL 4220 NEUROETHICS (3 credits)**

Neuroscience is a burgeoning field that yields new insights into the workings of the human mind and brain. Work in basic neuroscience also yields technological innovations - brain scans, smart pills, brain modification techniques, etc. - that have profound ethical and social implications. In this upper level philosophy course, we will primarily examine the social, legal, medical, and ethical implications of current and emerging neuroscience technologies and research practices. The emerging field of "neuroethics" examines the ethical ramifications of neuroscience using the concepts of normative and applied ethics. The course will discuss the ethics of neuroscientific technologies - e.g., the use of neuroimaging in the clinical and legal contexts - using the major ethical theories (utilitarianism, virtue ethics, deontological ethics) and principles central to biomedical ethics (autonomy, beneficence, justice, non-maleficence, competence, and informed consent).

**Prerequisite(s):** Prior Philosophy coursework, particularly PHIL 2300, or prior coursework in Neuroscience, is recommended but not required. Sophomore standing or above.

**PHIL 4240 PHILOSOPHY OF EMOTION (3 credits)**

In this class, we will aim to understand emotions, moods, attitudes, and other affective phenomena from a broad, empirically informed perspective while keeping practical issues in mind. We will ask questions such as: What are emotions, moods, and the rest? How are these various affective phenomena related to one another? How do they provide information about our relationship to the world? Under what conditions are they appropriate or inappropriate? What role do they play in our reasoning and decision-making? What role do they play in our ethical lives? What role do they play in the arts (e.g., music, literature, film)? (Cross-listed with PSYC 4240).

**Prerequisite(s):** No prerequisites. Some prior philosophical coursework would be useful, but it is not required.

**PHIL 4250 LIMITS OF CONSCIOUSNESS (3 credits)**

Consciousness is often considered one of the last great mysteries of science. Despite our internal experience of pleasures, sights, sounds, and pains, it is a largely open question why we have these experiences and what makes them happen. This upper level seminar class examines the philosophy, psychology, and neuroscience of consciousness. Topics covered will include neuroscientific theories of consciousness, unconscious perception, the relationship between attention and consciousness, animal consciousness, and detecting consciousness in the persistent vegetative state. (Cross-listed with PHIL 8256, PSYC 8256, PSYC 4250).

**Prerequisite(s):** PSYC 1010; or 6 hours in Philosophy. Not open to non-degree graduate students.

**PHIL 4260 MORAL PSYCHOLOGY (3 credits)**

The growing interdisciplinary field of moral psychology studies our moral beliefs and decision-making processes using the tools of anthropology, psychology, philosophy, and neuroscience. Topics in the science of morality will include the moral-conventional distinction (the distinction between moral norms and non-moral norms such as etiquette), the role of reasons vs. emotions in moral judgment, the brain basis of moral decision-making, cultural differences in moral norms, psychopathy, and the development of morality in children. Psychology studies the nature of moral judgment using behavioral tasks. Neuroscience employs techniques such as functional magnetic resonance imaging (fMRI), transcranial magnetic stimulation (TMS), and other tools for monitoring and manipulating brain processes to study "where" in the brain moral decision making occurs and the nature of these decisions. Throughout the course, we will examine how these empirical findings intersect with the ethical choices that we ought to make. (Cross-listed with PSYC 4260).

**Prerequisite(s):** No prerequisites. Prior Philosophy coursework is recommended but not required.

**PHIL 4610 PHILOSOPHY OF LANGUAGE (3 credits)**

This course provides an introduction to the central problems and foundational theories in the philosophy of language. We will investigate central semantic issues concerning the nature of reference, meaning, and truth; examine key pragmatic issues concerning the role of context and the ways in which we use language; and explore expressive and figurative uses of language such as metaphor. Such issues lie at heart of many perennial philosophical puzzles, encompass debates in linguistics and psycholinguistics, and pose challenges to work in Computer Science and, especially, Artificial Intelligence.

**Prerequisite(s):** 6 hours of Philosophy OR Sophomore status OR Permission of Instructor

## Physical Education Activities (PEA)

### Physical Education Activities Undergraduate Courses

**PEA 111A RACQUETBALL (1 credit)**

This course is designed to develop the fundamental skills and knowledge of the sport of racquetball.

**PEA 111B TENNIS (1 credit)**

This course is designed to develop the fundamental skills and knowledge of the game of tennis. Included will be the fundamental skills and strategies of playing the game.

**PEA 111C GOLF (1 credit)**

This course is designed to develop the fundamental skills and knowledge of the game of golf.

**PEA 111D JUDO (1 credit)**

A basic judo course designed primarily for men and women students with limited experience in judo. The course includes techniques of falling, self-balance, body management, disturbing opponent's balance, throwing techniques, techniques of pins, recognition of choking and armlocks, and judo principles for self-defense and individual sport techniques.

**PEA 111E SELF-DEFENSE (1 credit)**

This is a self defense course designed primarily for men and women students with little experience in self defense.

**PEA 111F TAEKWONDO (1 credit)**

Originally designed as a means of self-defense. Taekwondo is also excellent for physical conditioning, increasing agility, and building self-confidence. The purpose of the course is to introduce the student to the basic techniques and philosophies of Taekwondo.

**PEA 111G BASIC HAPKIDO (1 credit)**

In addition to the kicks and strikes normally associated with Oriental martial arts, Hapkido adds throws, take-downs, and restraint and submission holds. Hapkido is also excellent for physical conditioning, increasing agility, and building self-confidence. The purpose of the course is to introduce the student to the basic techniques and philosophies of Hapkido.

**PEA 111H WEIGHT TRAINING/BODY CONDITIONING (1 credit)**

The course is designed to develop the skills and knowledge necessary to begin and participate in a program of weight lifting as a lifelong activity.

**PEA 111I ADVANCED WEIGHT TRAINING (1 credit)**

The course is designed to enhance weightlifting and conditioning skills to an advanced level from skills already possessed by the student.

**PEA 111N KICKBOXING (1 credit)**

The course is a combination of boxing and kicking techniques and total body conditioning. It will focus on low, moderate, and/or high impact movements. The course will concentrate on safe and effective exercises that will develop the aerobic endurance and strength of the student. Students will utilize hand-wraps, gloves, focus mitts, and kicking shields during the course.

**PEA 111O MULTICULTURAL DANCE (1 credit)**

This course is designed to provide students with an introduction to dances from Europe, Asia, Africa, and North and South America.

**PEA 111P MODERN DANCE (1 credit)**

This course for men and women students is designed to develop technique in modern dance and acquire a brief knowledge, understanding, appreciation of modern dance, its history, and composition.

**PEA 111Q BALLET (1 credit)**

The course introduces the student to basic ballet technique and fosters an appreciation for ballet as an art form.

**PEA 111R JAZZ I (1 credit)**

The course is designed to introduce the student to various fundamental techniques in jazz dance and to incorporate these techniques into dance sequences.

**PEA 111S RELAXATION TECHNIQUES (1 credit)**

This course involves discussion about stress and its health related aspects. The focus is on demonstration and practice of selected stress management skills.

**PEA 111T YOGA I (1 credit)**

This course actively covers the scope of hatha yoga through both demonstration and participation as well as historical review of yoga.

**PEA 111U YOGA II (1 credit)**

This course actively continues to cover the scope of hatha yoga through both demonstration and participation as well as historical review of yoga.

**PEA 111V BEGINNING/INTERMEDIATE SWIMMING (1 credit)**

This course in Beginning and Intermediate Swimming is designed to expose the student to the basic skills involved in safe and efficient aquatics practices. Skills and information dealing with general water safety will be covered in order to create an awareness of the cause and prevention of water accidents, to develop a desire to be safe and to encourage healthy and safe water recreation.

**PEA 111W SCUBA (1 credit)**

SCUBA is an exciting, lifetime recreational activity that you can enjoy anywhere in the world and opens the doors to future tracks such as Marine Biology, Engineering, Physical Sciences and more. This course teaches students the basics of open water diving including equipment preparation, pre-dive safety checks, assembly and maintenance, underwater dive safety including ascents, buoyancy, emergency preparation and much more. Included in the course fee are the digital materials, logbook, purchase of snorkel gear and use of the pool and other necessary gear. During the nine sessions at Diventures you will complete the classroom, pool work and open water training to provide you a lifetime Open Water Diver certification from Scuba Schools International (SSI). Classroom and Pool are to be held at Diventures. The training dives are to be held the following weekend, weather dependent.

**Prerequisite(s):** A Medical Statement & Questionnaire (before the course) and Water Fitness Evaluation (Swim Assessment and Survival Float - during the course) must be completed.

**PEA 111X BASKETBALL (1 credit)**

This course is designed to develop the fundamental skills and knowledge of the game of basketball.

**PEA 111Z BACKPACKING & CAMPING (1 credit)**

This course is designed to introduce the student to backpacking and orienteering in order to provide the students with an appreciation for the outdoor environment.

**PEA 112A SWIM CONDITIONING (1 credit)**

This course in Swim Conditioning is designed to expose the participants to the benefits and variety of swimming as a lifetime fitness exercise.

**Prerequisite(s):** Participants should have the ability to continuously swim 25 yards.

**PEA 112C POWER YOGA (1 credit)**

This course provides an exercise program based on traditional yoga poses (asanas) in a continuous series of exercises. The course will concentrate on safe, effective, exercise that will develop the cardiovascular fitness, muscular strength, endurance and flexibility of the student.

**PEA 112D PILATES MATWORK (1 credit)**

This course is based on a method of exercise develop by Joseph H. Pilates. The course will concentrate on safe, effective exercise that will develop the cardiorespiratory fitness, muscular strength, endurance and flexibility of the student.

**PEA 112E JAZZ II (1 credit)**

The course is designed to build upon the techniques learned in Jazz Dance I. **Prerequisite(s):** PEA 111R or permission of instructor

**PEA 112F ROCK CLIMBING (1 credit)**

This class focuses on the basic knowledge and skills necessary for the sport of rock climbing. Topics covered will include protecting the climber from falling, movement on the rock, rappelling, and an introduction to anchor setting and ethics. Each topic will emphasize risk management and current accepted technique in the field.

**PEA 112G BALLET II (1 credit)**

The course builds on the work introduced in Ballet I. While still basic, there is increased complexity as the student begins to demonstrate greater ability.

**Prerequisite(s):** PEA 111Q or permission of instructor

**PEA 112H BALLROOM DANCE I (1 credit)**

This course is designed to introduce the student to various fundamental techniques in Ballroom social dance and to incorporate these into basic Ballroom, Latin, and Swing dances.

**PEA 112I TAI CHI FOR MOVEMENT IMPROVEMENT (1 credit)**

This course is designed to teach students various forms of Tai Chi. There will be emphasis on balance, coordination, flexibility, relaxation, and strength. It is designed for all levels of ability.

**PEA 112J MODERN DANCE 2 (1 credit)**

The course is designed to further the student's study of modern dance techniques.

**Prerequisite(s):** PEA 111P or permission of instructor. Not open to non-degree graduate students.

**PEA 112K SOCCER (1 credit)**

This course is designed to develop the fundamental skills and knowledge of the game of soccer.

**PEA 112L WALKING/JOGGING (1 credit)**

This course is designed to help the students improve personal fitness through walking and jogging.

**PEA 112M VOLLEYBALL (1 credit)**

This course is designed to develop the fundamental skills and knowledge of the game of volleyball.

**PEA 112N ZUMBA (1 credit)**

Zumba is a fitness program inspired by Latin dance. Zumba combines Latin rhythms (salsa, bachata, merengue, and chachacha.) with cardiovascular exercise to create an aerobic routine that is fun and easy to follow.

**PEA 112O BALLROOM DANCE II (1 credit)**

The course is designed to further the student's study of Ballroom Dance techniques.

**Prerequisite(s):** PEA 112H or permission of instructor

**PEA 112P INDOOR CYCLING (1 credit)**

This activity course is an indoor stationary cycling program. It is a high intensity, cardiovascular fitness program designed to promote lifetime fitness.

**PEA 112Q HIP HOP (1 credit)**

This course is designed to give students a beginning understanding and appreciation of hip hop dance.

**PEA 112R NET GAMES (1 credit)**

This course is designed to teach students the fundamental skills and rules of Badminton, Tennis, Pickleball, and Table Tennis.

**PEA 112S CROSS-TRAINING (1 credit)**

This course is designed to develop the technique, fitness level and knowledge base to effectively participate in cross-training activities. Individuals will be exposed to a variety of methods such as, but not limited to, plyometrics, agility training, kettlebells, and core training.

**PEA 112T ADVANCED MARTIAL ARTS (1 credit)**

The purpose of this course is to expand upon the basic techniques and philosophies presented in the UNO Martial Arts Introductory classes. The class will review the basic concepts and techniques taught in the intro classes which may be new to the student depending on the introductory class experience of the student.

**Prerequisite(s):** PEA 111G, PEA 111F, or PEA 111D; or instructor consent.

**PEA 112U QI GONG (1 credit)**

This course actively covers the scope of Qi Gong through demonstration and participation as well as through a systematic elucidation of the history and theoretical underpinnings of Qi Gong.

**PEA 112V MINDFULNESS MEDITATION (1 credit)**

This course actively covers the scope of Meditation practices, including Mindfulness, through demonstration, lecture, discussion, and participation. Various methods will be taught, as well as the history, philosophy and practices of meditation. Contemporary research will also be discussed.

**PEA 112W TAP I (1 credit)**

The course is designed to introduce the student to various fundamental techniques in tap dance and to incorporate these techniques into dance sequences.

**PEA 112X BARRE FITNESS (1 credit)**

This is a fitness course that utilizes safe barre exercises to develop muscular endurance, flexibility, and neuromotor training. The course will concentrate on integrating the use of the ballet barre, light weights, and various props.

**PEA 113A BEGINNING ICE SKATING (1 credit)**

This course is designed for beginning ice skaters. Instructional emphasis will be placed on safely learning the life-long activity of ice skating. Students will develop an understanding of the basic principles and terminology of the sport of ice skating, improve on any current ice skating skills, and develop new skills such as forward and backward skating, crossovers, turns, and stops.

**PEA 1130 ADAPTED PHYSICAL EDUCATION (1 credit)**

This course is designed to provide an opportunity for independent physical education activity for a disabled person.

**Prerequisite(s):** A disability which does not allow participation in regularly scheduled physical education activity courses.

## Physics (PHYS)

### Physics Undergraduate Courses

**PHYS 1030 PHYSICS OF EVERYDAY LIFE (3 credits)**

A conceptual course in the principles of physics and their relationship to man and his environment. Topics included relate the basic laws of physics and recent developments in science to their effects on man. This course is intended for students not majoring in the sciences and may be used in partial fulfillment of the natural science requirement.

**Prerequisite(s):** High School algebra or equivalent.

**Distribution:** Natural/Physical Sci General Education lecture

**PHYS 1034 PHYSICS OF EVERYDAY LIFE LABORATORY (1 credit)**

A physics laboratory consisting of a series of concise experiments which relate man directly to his physical environment.

**Prerequisite(s):** High school algebra or equivalent; PHYS 1030, prior or concurrent.

**Distribution:** Natural/Physical Sci General Education lab course



**PHYS 1050 INTRODUCTION TO PHYSICS (4 credits)**

A terminal one-semester course covering major topics in mechanics, heat, sound, electricity, magnetism, light and modern physics. Designed particularly for non-science liberal arts majors or others for whom such a one-semester coverage might be deemed adequate. (Does not count towards physics requirement for chemistry, physics and engineering majors.)

**Prerequisite(s):** High school algebra or equivalent.

**Distribution:** Natural/Physical Sci General Education lecture

**PHYS 1054 INTRODUCTION TO PHYSICS LABORATORY (1 credit)**

A series of concise experiments on varied topics in physics, such as scientific sampling, optics, elasticity, motion, sound, light and electricity are covered in this one-semester course. Emphasis is placed on data collection and graphing, and error reduction.

**Prerequisite(s):** High school algebra or equivalent; PHYS 1050, prior or concurrent, or permission of the instructor

**Distribution:** Natural/Physical Sci General Education lab course

**PHYS 1110 PHYSICS FOR LIFE SCIENCE I (4 credits)**

This course is the first part of a two-semester series designed for students with no prior background in physics. Students will develop problem-solving skills and a conceptual understanding of physics by exploring topics such as motion, forces, energy, equilibrium, elasticity, and thermodynamics. Through experiments, simulations, and problem sets, students will apply physics principles to real-world scenarios, including biological phenomena such as viscosity, drag, osmosis, and diffusion. The course focuses on foundational concepts in mechanics, heat, and fluid dynamics, with an emphasis on applications relevant to biological and life sciences.

**Prerequisite(s):** MATH 1220 or MATH 1300 or MATH 1310 or MATH 1320 or equivalent, or MPE score above 2 or permission of instructor

**Distribution:** Natural/Physical Sci General Education lecture

**PHYS 1120 PHYSICS FOR LIFE SCIENCE II (4 credits)**

This course is the second part of a two-semester, algebra-based series designed for students with no prior background in physics. It explores the principles of electricity, magnetism, optics, and wave phenomena, emphasizing applications relevant to biological and medical systems. This course provides the tools necessary for students to connect physics to biorelevant fields of study, preparing them for advanced coursework and professional applications.

**Prerequisite(s):** PHYS 1110 or permission.

**PHYS 1154 GENERAL PHYSICS LABORATORY I (1 credit)**

One-semester laboratory course for students enrolled in PHYS 1110 or PHYS 2110. Covers experiments in mechanics, wave motion and heat.

**Prerequisite(s):** PHYS 1110 or PHYS 2110, prior or concurrent.

**Distribution:** Natural/Physical Sci General Education lab course

**PHYS 1164 GENERAL PHYSICS LABORATORY II (1 credit)**

One-semester laboratory course for students enrolled in PHYS 1120 or PHYS 2120. Second semester covers experiments in electricity and magnetism, optics, and modern physics.

**Prerequisite(s):** PHYS 1120 or PHYS 2120, prior or concurrent.

**PHYS 1350 PRINCIPLES OF ASTRONOMY (3 credits)**

An introductory course that satisfies divisional requirements in natural science. Topics discussed include the night sky, gravity, telescopes, atoms and radiation, the solar system, the sun and stars; and cosmology.

**Prerequisite(s):** High school algebra or equivalent.

**Distribution:** Natural/Physical Sci General Education lecture

**PHYS 1354 INTRODUCTORY ASTRONOMY LAB (1 credit)**

Laboratory sessions acquaint students with basic phenomena, methods and data acquisition in astronomy. By use of the experiments, students will be able to explore and add to what has been discussed in lecture. Several night observing sessions will also be available for students to use telescopes.

**Prerequisite(s):** PHYS 1350 prior or concurrent.

**Distribution:** Natural/Physical Sci General Education lab course

**PHYS 1750 FUNDAMENTAL PHYSICS OF SOUND (4 credits)**

A course designed for music and communication majors. It covers transmission of sound, wave motion, pitch, quality, sound synthesis, acoustics, resonance, interference, musical scales, string and wind instruments, recording and reproduction of sound. Three lectures and one discussion per week.

**Prerequisite(s):** High school algebra or equivalent.

**PHYS 1754 FUNDAMENTAL PHYSICS OF SOUND LABORATORY (1 credit)**

A laboratory that accompanies PHYS 1750. The experiments are coordinated with the music-related portions of lecture course. The laboratory is designed for music majors.

**Prerequisite(s):** PHYS 1750 prior or concurrent and music major or permission of instructor.

**PHYS 1950 PHYSICS GATEWAY COURSE (1 credit)**

Designed for first year physics majors, a one-semester introduction to concepts and tools to be encountered and used in earning a physics degree.

**Prerequisite(s):** High school algebra or equivalent.

**PHYS 2030 ENERGY AND FUELS (3 credits)**

This one semester course focuses on energy from a macroscopic perspective. Viewpoints based on the law of physics are distinguished from unsupported opinion. Topics include: electricity production and consumption; mineral and fossil fuel resources; nuclear, solar, fossil fuel and biomass energies; pollution, conservation and recycling; extrapolation and interconnections.

**Prerequisite(s):** MATH 1310 or MATH 1220

**PHYS 2040 RADIATION FUNDAMENTALS (3 credits)**

This one-semester course examines the ways radiation affects our daily lives. Topics include: structure of matter and types of radiation, half-life and activity, biological effects of radiation, radiation standards and protection, uses of isotopes and radiation, nuclear wastes life-cycle, nature of risk versus benefit, dose calculations and shielding fundamentals.

**Prerequisite(s):** MATH 1310 or MATH 1220, minimum of PHYS 1050.

**PHYS 2110 GENERAL PHYSICS I - CALCULUS LEVEL (4 credits)**

First part of a two-semester continuing course for students majoring in some area of science, mathematics or engineering. Mechanics, molecular properties of matter and heat are covered in the first semester.

**Prerequisite(s):** MATH 1950 (MATH 1930 for Geology majors) or permission of the instructor. High school physics or PHYS 1050 is recommended.

**Distribution:** Natural/Physical Sci General Education lecture

**PHYS 2120 GENERAL PHYSICS-CALCULUS LEVEL (4 credits)**

Second part of a two-semester continuing course for students majoring in some area of science, mathematics or engineering. Wave motion, electricity, magnetism and light are considered during the second semester.

**Prerequisite(s):** PHYS 2110 and MATH 1960 (MATH 1930 for Geology majors) or permission of the instructor.

**PHYS 2130 MODERN PHYSICS (4 credits)**

The course is composed of introductions to relativity theory and quantum theory with applications to atomic and nuclear structure. Topics include: Planck radiation law; Compton Effect; photoelectric effect; the Rutherford experiments and Bohr model of the atom; the Schrodinger electronic structure of atoms; nuclear reactions, nuclear models, radioactive decay, fission, fusion and elementary particles.

**Prerequisite(s):** PHYS 2110, PHYS 2120, MATH 1950, & MATH 1960; or permission.



**PHYS 2350 SPECIAL TOPICS IN ASTRONOMY: OBSERVATIONAL ASTRONOMY (2-3 credits)**

This one semester course emphasizes personal study of the sky, including observing, measuring and recording celestial positions. Students will be shown how to observe and measure the Sun, the Moon, visible planets, and stars, and how to document astronomical observations. Students will be required to study outdoors on their own and will also use the department's observing facilities.

**Prerequisite(s):** PHYS 1350 or instructor permission.

**PHYS 3250 MATHEMATICAL METHODS OF PHYSICS (3 credits)**

Training in the use of mathematical techniques applicable to physics problems encountered in upper-level physics courses. Vector operators, Fourier analysis, frequently used differential equations (ordinary and partial), orthogonal functions, and matrix methods of coordinate transformation are included. Emphasis is given to solving problems from mechanics such as vectorial mechanics, oscillatory systems, wave motion, potential theory, etc.

**Prerequisite(s):** MATH 1950, MATH 1960, MATH 1970 and PHYS 2160 or 2120 or permission.

**PHYS 3260 COMPUTER TOOLS FOR PHYSICISTS (2 credits)**

This course will introduce a wide selection of computer-powered mathematical tools for doing physics or any upper level science courses. It will introduce software packages in real and complex algebra, trigonometry, calculus I & II, linear algebra, statistics, differential equations, special functions, graphics, document preparation, and programming in the manner of a research scientist.

**Prerequisite(s):** PHYS 1120 or PHYS 2120 and MATH 1960.

**PHYS 3300 INTRODUCTION TO BIOMEDICAL PHYSICS (3 credits)**

This course is designed primarily for students desiring to specialize in Biomedical Physics. The course emphasizes an understanding of the fundamental principles of physics and the use of these principles in a variety of biological and medical applications with the major goal to merge physics, biology, and medicine in a unified perspective. PHYS 3300 covers various topics relating basic physics to living systems, including mechanics, fluid mechanics, thermodynamics, sound, electricity, optics, atomic physics, nuclear physics, and nanotechnology. It also describes various technologies widely used in modern medicine such as laser surgery, ultrasound imaging, X-ray, computed tomography, and magnetic resonance imaging. Each topic briefly introduces related background of physics principles as well as comprehensive overview of biological/medical application, thus (although highly recommended) very little background in physics or biology is required. This course will benefit students with interests in medicine, biology, biophysics, or medical physics.

**Prerequisite(s):** PHYS1110 is required. PHYS2110 and PHYS1120 or PHYS2120 are recommended.

**PHYS 3450 CLASSICAL MECHANICS (3 credits)**

Statics and dynamics of particles and rigid bodies including the equations of Lagrange and Hamilton.

**Prerequisite(s):** MATH 1970, PHYS 3250 or permission.

**PHYS 3500 ELEMENTS OF ELECTRONICS (3 credits)**

The topics covered will include basic circuit theory, principles and operation of electronic devices such as diodes, transistors and integrated circuits. Application of these devices in various electronic circuits. Both analog and digital circuitry will be studied. (Cross-listed with PHYS 8505)

**Prerequisite(s):** PHYS 1120 or PHYS 2120 and MATH 1970

**PHYS 3504 EXPERIMENTAL PHYSICS I (1 credit)**

A set of experiments designed to complement PHYS 3750 and PHYS 4200.

**Prerequisite(s):** PHYS 2120

**PHYS 3524 EXPERIMENTAL PHYSICS II (1 credit)**

A set of experiments designed to complement PHYS 3760 and PHYS 4210.

**Prerequisite(s):** PHYS 2120

**PHYS 3544 EXPERIMENTAL PHYSICS III (1 credit)**

A set of experiments designed to complement PHYS 3450, PHYS 3850, and PHYS 4200.

**Prerequisite(s):** PHYS 2120

**PHYS 3564 EXPERIMENTAL PHYSICS IV (1 credit)**

A set of experiments designed to complement PHYS 3020 and PHYS 4220.

**Prerequisite(s):** PHYS 2120

**PHYS 3600 THERMODYNAMICS AND STATISTICAL PHYSICS (3 credits)**

Topics include: empirical and absolute temperature, equations of state, work, heat, entropy, the four laws of thermodynamics, phase changes, thermodynamic potentials, classical and quantum statistics of an ideal gas. Applications to be included: Einstein theory of a solid, paramagnetism, blackbody radiation, and conduction electrons. (Cross-listed with PHYS 8605)

**Prerequisite(s):** PHYS 2120 and MATH 1970.

**PHYS 3750 ELECTRICITY AND MAGNETISM I (3 credits)**

An advanced study of electrostatics and magnetostatics, including Coulomb's law, Gauss' law, the scalar potential, conductors and dielectrics, electrostatic energy, special methods, electric current, Ampere's law, the magnetic induction, Faraday's law, and the electromagnetic wave equation as obtained from Maxwell's equations, with simple examples such as transmission lines and antennas. (Cross-listed with PHYS 8755)

**Prerequisite(s):** MATH 1950, MATH 1960, MATH 1970, PHYS 3250, or permission.

**PHYS 3760 ELECTRICITY AND MAGNETISM II (3 credits)**

A selection of more advanced topics from electromagnetic theory, including a deeper treatment of the electromagnetic wave equations derived from Maxwell's equations, extending to propagation, reflection and refraction of plane waves, waves in wave guides, and radiation. Other topics covered might be magnetism and magnetic energy, plasmas and special relativity. (Cross-listed with PHYS 8765)

**Prerequisite(s):** PHYS 3750

**PHYS 3800 OPTICS (3 credits)**

The behavior of electromagnetic radiation as formulated in the ray, wave, and quantum models. Topics will include: reflection and refraction, vergence, matrix method, optical instruments, scalar waves, electromagnetic waves, blackbody radiation, interference, diffraction, and lasers; if time permits, fiber optics and holography will also be included. (Cross-listed with PHYS 8805)

**Prerequisite(s):** PHYS 1120 or PHYS 2120 and MATH 1970

**PHYS 4200 INTRODUCTION TO QUANTUM MECHANICS (3 credits)**

This course provides an introduction to the historical development of modern physics and to the Schrodinger formulation of quantum mechanics. Specific topics will include square wells potential barriers, the simple harmonic oscillator potential and the hydrogen atom. Characteristics of multi-electron atoms, including angular momentum coupling schemes, spectra and transition rules will also be included. (Cross-listed with PHYS 8206)

**Prerequisite(s):** PHYS 3250 or permission.

**PHYS 4210 QUANTUM THEORY (3 credits)**

The matrix operator formalism is covered along with philosophical implications of this approach. The methods developed will be applied to simple harmonic oscillator and hydrogen atom potentials. Raising and lowering operators, creation-annihilation operators, and first and second order perturbation theory will be discussed. (Cross-listed with PHYS 8216)

**Prerequisite(s):** PHYS 4200 or permission.

**PHYS 4220 PHYSICS OF MOLECULES AND SOLIDS (3 credits)**

This course covers the various types of atomic bonding found in molecules and solids. Electronic energy levels and spectra of molecules will be discussed. Topics in solid state physics will include mechanics and thermodynamics of crystals, the scattering of waves, including x-ray and neutron scattering, electron scattering and phonon and photon interactions. (Cross-listed with PHYS 8226)

**Prerequisite(s):** PHYS 4200 or permission.

**PHYS 4230 SPECIAL RELATIVITY AND NUCLEAR PHYSICS (3 credits)**

This course includes a brief historical background of the development of relativity theory and the importance of the experiments performed in conjunction with it. Lorentz transformations and covariant formalism will be developed and applied to certain problems in mechanics and electricity and magnetism. The nuclear physics portion of the course will include the historical development of the concept of the nuclear atom. Theoretical models of nuclear structure will be discussed, along with the theory of alpha, beta and gamma decay. Fission and fusion discussed as time permits. (Cross-listed with PHYS 8236)

**Prerequisite(s):** PHYS 4200 or permission.

**PHYS 4300 GENERAL RELATIVITY (3 credits)**

A study of general relativity theory and its leading applications. Physical motivations and conceptual foundations will be explored. Students will be guided step-by-step to mastery of the tensor analysis required by this theory. Topics covered will include the equivalence principle, recap of special relativity, tensors, curvature and geodesics, Einstein field equations, black holes, cosmology, and gravitational waves. (Cross-listed with PHYS 8306)

**Prerequisite(s):** PHYS 3750 and PHYS 4230, or permission of instructor.

**PHYS 4350 ASTROPHYSICS (3 credits)**

This course introduces the fundamentals of astrophysics to students with a prior knowledge of physics and mathematics. A review will be given of light and telescopes, classical and quantum mechanics and special relativity. Basic laws of physics will be applied to various topics such as: the sun, nuclear fusion and particle physics, evolution and end state of stars, interstellar medium, galaxies and cosmology. (Cross-listed with PHYS 8356)

**Prerequisite(s):** PHYS 2130 or 4200 and MATH 1970. Recommended: PHYS 1350.

**PHYS 4400 GEOPHYSICS (3 credits)**

A study of geophysical techniques used to understand the earth, study environmental problems, and in resource exploration. Seismic, gravity, heat flow, magnetic and other methods will be presented. The insights from these methods into earthquake events, stress distributions, rock rheology and plate tectonics will also be addressed. Interpretive skills will be emphasized. (Cross-listed with GEOL 4400).

**Prerequisite(s):** GEOL 1170, PHYS 1110 or higher, or permission of instructor

**PHYS 4500 BIOLOGICAL PHYSICS (3 credits)**

This course is designed primarily for students specializing in Biomedical Physics. As a part of Biomedical Physics program at the Department of Physics, the course introduces the fundamental principles of physics and the use of these principles for various biological applications. PHYS 4500/8506 covers various topics including cells, polymers, polyelectrolytes, membranes, mesoscopic forces, self-assembly, photonics, fluid mechanics, motility, chemical kinetics, enzyme kinetics, modern experimental techniques of biophysics. Each topic connects biomolecules with their functions and relevant biological phenomena from a physics perspective. This course will benefit students with interests in biological and medical physics, as well as chemistry, biology. (Cross-listed with PHYS 8506).

**Prerequisite(s):** PHYS 2110 is required. PHYS 2120 and PHYS 3300 are recommended.

**PHYS 4550 PHYSICS IN MEDICINE (3 credits)**

This course is designed primarily for students desiring to specialize in Biomedical Physics. The course introduces principles and applications of various medical imaging modalities and medical physics based therapies. Topics include such imaging techniques as ultrasound, X-ray imaging, Computed Tomography (CT), MRI imaging, and positron emission tomography. The course discusses physical principles behind medical imaging and therapeutic applications and covers interaction of different kinds of radiation with biological matter. (Cross-listed with PHYS 8556).

**Prerequisite(s):** PHYS 2110; PHYS 2120, and PHYS 2130 for Physics majors or permission of the instructor. PHYS 3300 and PHYS 4500 are recommended.

**PHYS 4800 INTERNSHIP (1-6 credits)**

Internship with agencies or corporations enabling students to gain knowledge and experience in practical applications of physics and/or environmental principles.

**Prerequisite(s):** Junior or senior standing. Permission.

**PHYS 4950 PROBLEMS IN PHYSICS (1-3 credits)**

Individual laboratory and/or library work, or reading course in some field of physics. (Cross-listed with PHYS 4960, PHYS 8956, PHYS 8966)

**Prerequisite(s):** PHYS 2120 and permission of instructor.

**PHYS 4960 PROBLEMS IN PHYSICS (1-3 credits)**

Individual laboratory and/or library work, or reading course in some field of physics. (Cross-listed with PHYS 4950, PHYS 8956, PHYS 8966)

**Prerequisite(s):** PHYS 2120 and permission of instructor.

## Political Science (PSCI)

### Political Science Undergraduate Courses

**PSCI 1000 INTRODUCTION TO POLITICAL SCIENCE (3 credits)**

This course introduces students to political ideas, behaviors, processes, institutions, and issues on a national and global level.

**Distribution:** Social Science General Education course and Global Diversity General Education course

**PSCI 1100 INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (3 credits)**

This course introduces students to the foundational principles, institutions, processes, and policies of national government in the United States.

**Distribution:** Social Science General Education course and U.S. Diversity General Education course

**PSCI 2000 INTRODUCTION TO POLITICAL INQUIRY AND WRITING (3 credits)**

This course introduces students to how political scientists conduct inquiry into political questions and how they write about the results of their investigations for various kinds of audiences. Students will learn the basics of quantitative and qualitative research methods in political science, will learn how to use the library and other available sources of information, and will produce the various kinds of writings by which political scientists communicate their findings to the public, to other scholars, and to political and governmental actors.

**Prerequisite(s):** PSCI 1100 or PSCI 1000 preferred. ENGL 1150 required and ENGL 1160 recommended.

**Distribution:** Writing in the Discipline Single Course

**PSCI 2110 INTRODUCTION TO PUBLIC POLICY (3 credits)**

An introduction to the formation and evaluation of public policy, with particular focus on the stages of public policy development.

**Distribution:** Social Science General Education course

**PSCI 2120 INTRODUCTION TO LEADERSHIP (3 credits)**

This course introduces students to civic leadership in a public setting, including theories of leadership, models of leadership, cases of success and failure, and the inherent tensions among democracy, leadership, and administration.

**Distribution:** Social Science General Education course

**PSCI 2130 AFRICAN POLITICS (3 credits)**

African Politics examines the socio-cultural and economic environments which characterize political life in contemporary Africa. This course examines contemporary African politics and government in post-independence Africa, and the pre-colonial political and economic systems which influence contemporary African politics. The course assesses the various approaches used to study the political development of the African continent; examines the processes, features, and institutions of the African states; addresses key and persistent issues about African politics; and examines dimensions of social change and political reform. (Cross-listed with BLST 2130).

**Distribution:** Global Diversity General Education course

**PSCI 2150 CAREERS IN LAW AND POLITICS (3 credits)**

This course introduces students to a diversity of career paths in both the public and private sector that are available in the fields of law and politics, and the motivations, qualifications, and expertise necessary for each.

**Prerequisite(s):** PSCI 1000 or PSCI 1100 is recommended. Not open to non-degree graduate students.

**PSCI 2180 INTRODUCTION TO LAW (3 credits)**

This course introduces students to the foundations, principles, functions, institutions, processes, issues, and fields of law with a special emphasis on the American political and legal systems.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**PSCI 2210 INTRODUCTION TO INTERNATIONAL RELATIONS (3 credits)**

This course introduces students to historical and contemporary questions and major theoretical approaches to world affairs through examination of the international system in terms of the economic, military, and political forces between states, international organizations, and transnational actors.

**Distribution:** Global Diversity General Education course and Social Science General Education course

**PSCI 2310 INTRODUCTION TO POLITICAL THOUGHT (3 credits)**

This course introduces students to the nature and scope of politics, the foundations of political thought, and competing traditions of political theory through the ideas of major political philosophers, the interpretation of their ideas, and the possible application of their ideas today.

**Distribution:** Humanities and Fine Arts General Education course

**PSCI 2500 INTRODUCTION TO COMPARATIVE POLITICS (3 credits)**

This course introduces students to the fundamental concepts and theoretical approaches used to study political institutions, processes, and public policies in different country settings. This course also illustrates the rich diversity of political life and the importance of global political and economic change.

**Distribution:** Global Diversity General Education course and Social Science General Education course

**PSCI 3000 QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (3 credits)**

This course introduces students to the techniques that political scientists use to answer research questions with quantitative data, as well as issues of research design, hypothesis formation, and causation. The course emphasizes the methods used to collect, analyze, and extract information from data using statistical computer software. (Cross-listed with PSCI 8005)

**Prerequisite(s):** MATH 1120, MATH 1130, MATH 1530, MATH 1220 or MATH 1310 or permission of department.

**PSCI 3010 URBAN POLITICS (3 credits)**

This course introduces students to the development, powers, forms of government, and functions of cities and their suburbs as well as the problems faced by elected officials, business and community leaders, and citizens in the urban setting. (Cross-listed with PSCI 8015)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 3040 GOVERNMENT AND POLITICS OF NEBRASKA (3 credits)**

This course introduces students to the development, structures, functions and public policies of the government of the state of Nebraska. (Cross-listed with PSCI 8045)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 3050 STATE GOVERNMENT AND POLITICS (3 credits)**

This course introduces students to the development, structures, functions and public policies of states. (Cross-listed with PSCI 8055)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 3100 LGBT POLITICS (3 credits)**

This course introduces students to the political struggle for Lesbian, Gay, Bisexual, and Transgender (LGBT) equal rights in the United States using a model of political empowerment, which may be applied for all minority or identity groups and social movements, generating operationalized measures of progress toward the loci of political power. (Cross-listed with PSCI 8105, WGST 3100, WGST 8105)

**Prerequisite(s):** PSCI 1100 is recommended.

**Distribution:** U.S. Diversity General Education course

**PSCI 3120 THE AFRICAN AMERICAN EXPERIENCE IN POLITICS (3 credits)**

This course will provide a historical and contemporary survey of the African American political experience in the United States, from the passage of the 15th Amendment in the late 1800s, to the 1965 Voting Rights Act, and continuing into the 21st century. Students will examine the evolution of the Black political experience, with emphasis on the fight against enslavement, segregation, lynchings and mass incarceration, and the long struggle of African Americans against institutional and structural racism in the American political system. (Cross-listed with BLST 3120)

**Prerequisite(s):** PSCI 1000 or PSCI 1100

**Distribution:** U.S. Diversity General Education course

**PSCI 3130 WOMEN AND POLITICS (3 credits)**

This course introduces students to women's political participation, including holding elective office, socialization, the feminist movement and its opposition, and public policies with particular impact on women. The focus is on contemporary perspectives on women in American political ideas and behavior. (Cross-listed with PSCI 8135, WGST 3130, WGST 8135)

**Prerequisite(s):** PSCI 1100 is recommended.

**Distribution:** U.S. Diversity General Education course

**PSCI 3140 LATINO/-A POLITICS (3 credits)**

This course introduces students to the dynamism and growth of the role of Latinos, as a group of political actors, in the United States. This course provides students with an exposure to and understanding of various concepts and dimensions of this phenomenon, including historical and contemporary Latino political thought and the efforts to increase political empowerment (representation and participation) and influence through grassroots, social, and political movements. (Cross-listed with PSCI 8145, LLS 3140, LLS 8145)

**Prerequisite(s):** PSCI 1100 is recommended.

**Distribution:** U.S. Diversity General Education course

**PSCI 3150 ASIAN PACIFIC AMERICANS AND THE NEW MINORITY POLITICS (3 credits)**

This course will be devoted to a broad discussion about the emergence of Asian Pacific Americans by birth and immigration, the fastest growing minority in the U.S., as a significant factor in American politics. (This course fulfills the department's American politics requirement).

**Prerequisite(s):** Junior standing or by professor's permission.

**PSCI 3160 POLITICAL PARTIES (3 credits)**

This course introduces students to the origin, development, structure, and functions of political parties in the United States as political organizations, coalitions of voters, and governing coalitions that seek to hold office and influence public policy. (Cross-listed with PSCI 8165)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 3170 INTEREST GROUPS (3 credits)**

This course introduces students to the theories, formation, organization, and activities of interest groups and their impact on public policy, particularly through their role in campaigns and elections and lobbying. (Cross-listed with PSCI 8175)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 3180 CAMPAIGNS AND ELECTIONS (3 credits)**

This course introduces students to the evolution and modern application of campaigns and elections in the United States through examination of campaign management and campaign strategy in congressional and presidential elections. (Cross-listed with PSCI 8185)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 3210 GEOPOLITICS OF CENTRAL ASIA AND SOUTH ASIA (3 credits)**

This course will focus on the geographic area of Central Asia-South Asia (CASA) and provide students with opportunity to understand the dynamics that made this region a traditional contest area between regional and global powers for centuries. Central Asia-South Asia region is home to successful democracies, a monarchy, and dictatorships. This course is designed to help students analytically assess the geopolitical variables concerning the CASA region and the players involved. Post 9/11 developments in Afghanistan have brought the whole region once again to the forefront of geopolitical struggle between global and regional players, thus reigniting the struggle of the New Great Game in the region. These multiple elements of regional, development, stability and instability will be discussed in this course.

**Prerequisite(s):** PSCI 2210 or junior standing or permission of instructor. Recommended: INST 2130: Introduction to International Studies.

**PSCI 3220 INTERNATIONAL ORGANIZATIONS (3 credits)**

This course introduces students to the history, principles, structures, and processes developed to organize and legitimize peaceful reconciliation of the differences of nation-states and to advance their mutual interests in the contemporary global political and economic system. (Cross-listed with PSCI 8225)

**Prerequisite(s):** PSCI 2210 or junior standing or permission of instructor.

**PSCI 3230 GENDER AND GLOBAL POLITICS (3 credits)**

This seminar introduces students to gender politics in comparative and international politics. (Cross-listed with PSCI 8235, WGST 3230, WGST 8235)

**Prerequisite(s):** PSCI 2500 is recommended.

**Distribution:** Global Diversity General Education course

**PSCI 3240 THE POLITICS AND PRACTICE OF HUMAN RIGHTS (3 credits)**

This course introduces students to human rights issues across the globe and explores the theoretical foundations of human rights as well as human rights institutions and transitional justice. (Cross-listed with PSCI 8245)

**Prerequisite(s):** PSCI 2210 or junior standing or permission of the instructor.

**PSCI 3250 GLOBAL SECURITY ISSUES (3 credits)**

This course introduces students to issues of national and international security that cross boundaries and threaten all countries including issues such as climate change, environmental deterioration, population and demographics, gender issues, disease and public health, the media, asymmetrical warfare, drugs/organized crime, and cyberthreats. (Cross-listed with PSCI 8255)

**Prerequisite(s):** PSCI 2210 or junior status or permission of instructor.

**PSCI 3260 UNITED STATES FOREIGN POLICY (3 credits)**

This course introduces students to the analysis of foreign and defense policy processes in the United States, including the role of the President, Congress, Departments of State and Defense, the intelligence community, and other actors/factors affecting policy formulation and implementation. (Cross-listed with PSCI 8265)

**Prerequisite(s):** PSCI 2210 or junior standing or permission of instructor.

**PSCI 3340 AMERICAN POLITICAL THOUGHT (3 credits)**

This course introduces students to the ideals, ideologies, identities, and institutions of American political thought from the country's origins to the present. Topics to be covered may include the political thought of the early American settlers and of the founding generation, the debates over the creation and implementation of the Constitution, the 19th century arguments over slavery, the rise of progressivism, the New Deal and its critics, and contemporary American conservatism and liberalism. (Cross-listed with PSCI 8345)

**Prerequisite(s):** PSCI 1100 or PSCI 2310 or junior standing or permission of instructor.

**PSCI 3410 LAW AND THE BLACK COMMUNITY (3 credits)**

Law and the Black Community provides an in-depth examination of the racialized American legal process as it pertains to and affects African Americans in the U.S. From the formation of the U.S. Constitution to present day, this course analyzes intersections of race, law, politics and culture, and explores the administration of justice and Black experiences through a critical legal perspective. (Cross-listed with BLST 3410, CRCJ 3410).

**Prerequisite(s):** BLST 1000 or CRCJ 1010 or Junior standing or instructor permission

**Distribution:** U.S. Diversity General Education course

**PSCI 3450 AFRICAN ECONOMIC DEVELOPMENT (3 credits)**

African Economic Development critically examines historical, political, and socioeconomic forces that have shaped African economies. Students taking this course will learn about the evolution of the modern economic systems, methods of production, distribution and exchange which affect African economies. The course examines the historical impact of colonialism, capitalism, and imperialism on the displacement of ancient trade routes and markets throughout the African continent; the historical impact of these foreign colonial states and tools on the development of contemporary African private sectors, economic institutions, and global competition; and contemporary strategies of economic development, regional cooperation, and international trade, particularly as they affect Sub-Saharan Africa. (Cross-listed with BLST 3450).

**PSCI 3500 EUROPEAN POLITICS (3 credits)**

This course introduces students to the political institutions, processes, and public policies of the states of Europe, including the European Union. (Cross-listed with PSCI 8505)

**Prerequisite(s):** PSCI 2500 or junior status or permission of instructor.

**Distribution:** Global Diversity General Education course

**PSCI 3510 IMMIGRATION LAW AND LATINOS (3 credits)**

This course provides an overview of the U.S. Immigration laws with an emphasis on Latino migration. In analyzing Latino migration, we will look at the push and pull factors of migration, the channels available for lawful migration, and the impact immigrants have in our society. (Cross-listed with LLS 3510).

**PSCI 3580 GOVERNMENT AND POLITICS OF RUSSIA AND THE POST-SOVIET STATES (3 credits)**

This course introduces students to the political cultures, institutions, processes, and public policies of Russia and the states of the former Soviet Union. (Cross-listed with PSCI 8585)

**Prerequisite(s):** PSCI 2500 or junior status or permission of instructor.

**Distribution:** Global Diversity General Education course



**PSCI 3640 GOVERNMENT AND POLITICS OF CHINA AND EAST ASIA (3 credits)**

This course introduces students to the political cultures, institutions, processes, policies, and other characteristics of China and neighboring states, with reference to other major powers engaged in the region. (Cross-listed with PSCI 8645)

**Prerequisite(s):** PSCI 2500 or junior standing or permission of instructor.

**Distribution:** Global Diversity General Education course

**PSCI 3660 GOVERNMENT AND POLITICS OF JAPAN AND EAST ASIA (3 credits)**

This course introduces students to the political cultures, institutions, processes, policies and other characteristics of Japan and neighboring states, with reference to other major powers engaged in the region. (Cross-listed with PSCI 8665)

**Prerequisite(s):** PSCI 2500 or junior standing or permission of instructor.

**Distribution:** Global Diversity General Education course

**PSCI 3680 GOVERNMENT AND POLITICS OF LATIN AMERICA (3 credits)**

This course introduces students to the political institutions, processes, and public policies of the states of Latin America. (Cross-listed with PSCI 8685, LLS 3680, LLS 8685)

**Prerequisite(s):** PSCI 2500 or junior status or permission of instructor.

**Distribution:** Global Diversity General Education course

**PSCI 3700 GOVERNMENT AND POLITICS OF THE MIDDLE EAST (3 credits)**

This course introduces students to government and politics in the contemporary Middle East, including considerations of state formation, authoritarianism and democratization, state-society relations, religion, culture, gender, and economy. (Cross-listed with PSCI 8705)

**Prerequisite(s):** PSCI 2500 or junior standing or permission of instructor.

**Distribution:** Global Diversity General Education course

**PSCI 3910 SPECIAL TOPICS IN POLITICAL SCIENCE (1 credit)**

This course introduces students to a specialized subject matter in the field of political science not covered in existing courses. This course may be repeated for different topics up to a maximum of six credit hours.

**PSCI 3920 SPECIAL TOPICS IN POLITICAL SCIENCE (2 credits)**

This course introduces students to a specialized subject matter in the field of political science not covered in existing courses. This course may be repeated for different topics up to a maximum of six credit hours.

**PSCI 3930 SPECIAL TOPICS IN POLITICAL SCIENCE (3 credits)**

This course introduces students to a specialized subject matter in the field of political science not covered in existing courses. This course may be repeated for different topics up to a maximum of six credit hours.

**PSCI 4030 THE PRESIDENCY (3 credits)**

This course introduces students to the development and modern application of presidential leadership through examination of presidential selection, presidential decision-making, the relationship of the presidency with other governmental and non-governmental actors, and the role of the presidency in making public policy. (Cross-listed with PSCI 8036)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 4040 CONGRESS AND THE LEGISLATIVE PROCESS (3 credits)**

This course introduces students to the development of the Congress and modern application of the legislative process through examination of congressional elections, congressional leadership, congressional decision-making, legislative rules and procedures, the relationship of the Congress with other governmental and non-governmental actors, and the role of the Congress in making public policy. (Cross-listed with PSCI 8046)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 4050 THE JUDICIAL PROCESS (3 credits)**

This course introduces students to the administration of law in federal and state courts with respect to the organization of the courts, judicial selection, judicial powers, judicial decision-making, judicial policy-making, the bar, and reform movements in the pursuit of justice. (Cross-listed with PSCI 8056)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 4100 MONEY IN AMERICAN POLITICS (3 credits)**

This course surveys facts and scholarship about two types of money in American politics: money as a political resource and money as policy. As a political resource, money is critically important for candidates to win elections, for interest groups to exert influence on government, and for policy expertise from civil society to inform government policy. As policy itself, in history or in modern times money has lain at the heart of policy debates like the creation of a national bank, gold and silver as legal tender, and financial regulations, as well as perennial governmental processes like federal budgeting and appropriations and the selection of congressional party leaders. This course trains students to comprehend, analyze, critically evaluate, and build on key research on these topics. (Cross-listed with PSCI 8106).

**Prerequisite(s):** PSCI 1100 is a strongly recommended prerequisite.

**PSCI 4110 POLITICAL PSYCHOLOGY (3 credits)**

This course introduces students to the role of human thought, emotion, and behavior in politics through examination of the psychological factors that motivate political elites and the mass public. (Cross-listed with PSCI 8116, PSYC 4110, PSYC 8116)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 4120 PUBLIC OPINION AND POLLING (3 credits)**

This course introduces students to the origins, nature, measurement, and consequences of public opinion on policymaking. (Cross-listed with PSCI 8126)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of the instructor.

**PSCI 4130 BROWN V. BOARD OF EDUCATION (3 credits)**

Brown v. Board of Education traces the educational history of African Americans from segregation to desegregation to re-segregation. This course will review the legal cases before and after the Supreme Court's Brown decision, their aftermath, and the effects on educational policies and practices. (Cross-listed with BLST 8716, BLST 4710, PSCI 8136).

**Prerequisite(s):** Junior standing OR senior standing or permission of instructor.

**Distribution:** U.S. Diversity General Education course

**PSCI 4140 CONSTITUTIONAL LAW: CIVIL RIGHTS (3 credits)**

This course introduces students to the history, principles, and judicial interpretation of key constitutional provisions and federal statutes regarding civil rights in the United States. (Cross-listed with PSCI 8146)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 4150 LAW AND THE COURTS: MOCK TRIAL (3 credits)**

This course introduces students to the American legal system, including its courtroom aspects, through preparation of and participation in a mock trial case.

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor. Not open to non-degree graduate students.

**PSCI 4160 LAW AND THE COURTS: MOCK TRIAL PRACTICUM (1-3 credits)**

This course introduces students to the American legal system through participation in mock trial competition.

**Prerequisite(s):** PSCI 4150 or junior standing or permission of instructor. Not open to non-degree graduate students.

**PSCI 4170 CONSTITUTIONAL LAW: FOUNDATIONS (3 credits)**

This course introduces students to the principles, design and operation of the American constitutional system with emphasis on analysis of the Declaration of Independence, the Articles of Confederation, the proceedings of the Constitutional Convention, and the Federalist Papers. (Cross-listed with PSCI 8176)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor



**PSCI 4180 CONSTITUTIONAL LAW: THE FEDERAL SYSTEM (3 credits)**

This course introduces students to American constitutional law as it relates to issues of federalism, the relation of the nation and the states, and separation of powers, the relation of the three branches of the national government. (Cross-listed with PSCI 8186)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 4190 CONSTITUTIONAL LAW: CIVIL LIBERTIES (3 credits)**

This course introduces students to the philosophy, history, and development of the personal liberties guaranteed by the Constitution including freedom of speech, religion, assembly, petition, and the right of privacy, primarily through examination of Supreme Court decisions. (Cross-listed with PSCI 8196)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 4200 INTERNATIONAL RELATIONS OF EAST ASIA (3 credits)**

This course introduces students to the international politics of East Asia with an emphasis on the contemporary relations among major East Asian states (China, Japan, the Korean peninsula) and the United States. (Cross-listed with PSCI 8206)

**Prerequisite(s):** PSCI 2210 or junior standing or permission of instructor.

**Distribution:** Global Diversity General Education course

**PSCI 4210 INTERNATIONAL RELATIONS OF THE MIDDLE EAST (3 credits)**

This course focuses on the international politics of the Middle East region, specifically looking at conditions for peace and causes of war. It examines how the international system, domestic politics, ideologies, and leaders influence international politics in the Middle East. (Cross-listed with PSCI 8216)

**Prerequisite(s):** PSCI 2210 or junior standing or permission of instructor.

**Distribution:** Global Diversity General Education course

**PSCI 4240 INTERNATIONAL CONFLICT RESOLUTION (3 credits)**

This course introduces students to different approaches to peace, their basic assumptions, and their application to current conflicts. (Cross-listed with PSCI 8246)

**Prerequisite(s):** PSCI 2210 or junior status or permission of instructor.

**PSCI 4250 INTELLIGENCE AND NATIONAL SECURITY (3 credits)**

This course introduces students to the United States intelligence services, and their relation to broader U.S. national security policy. (Cross-listed with PSCI 8256)

**Prerequisite(s):** PSCI 2210 or junior standing or permission of instructor

**PSCI 4260 INTERNATIONAL LAW (3 credits)**

The course introduces students to the general principles of international law, including the key actors, the creation and sources of international law, the interpretation of international law by courts and tribunals, and its enforcement. (Cross-listed with PSCI 8266)

**Prerequisite(s):** PSCI 2210 or junior status or permission of instructor.

**PSCI 4270 GLOBAL ENVIRONMENTAL POLITICS (3 credits)**

This course introduces students to issues of global environmental politics and policy, including the science behind issues such as climate change, how environmental policy is made at the national and international levels, and what role politics plays in determining environmental resource use. (Cross-listed with ENVN 4270, PSCI 8276)

**Prerequisite(s):** PSCI 2210 or junior standing or permission of instructor.

**PSCI 4280 INTERNATIONAL RELATIONS OF LATIN AMERICA (3 credits)**

Analysis of the role of Latin American states in the international political arena. Emphasis upon developing, applying and testing an explanatory theory of international politics through the study of the inter-American system: the regional, institutional and ideological environment, power relations, policies and contemporary problems. (This course fulfills the department's international politics requirement). (Cross-listed with PSCI 8286, LLS 4280, LLS 8286)

**Prerequisite(s):** PSCI 2500 or junior standing or permission of the instructor.

**Distribution:** Global Diversity General Education course

**PSCI 4290 INTERNATIONAL DEVELOPMENT & SUSTAINABILITY (3 credits)**

This course introduces students to different concepts of international development through the lens of sustainability. The course explores a broad range of activities related to international development, including international aid, trade, philanthropy, interventions in conflict, peacebuilding, public health, human rights, social justice, and the environment. (Cross-listed with PSCI 8296, CACT 8306)

**Prerequisite(s):** PSCI 2210 or junior standing or permission of instructor.

**PSCI 4310 CLASSICAL POLITICAL THOUGHT (3 credits)**

This course introduces students to key works representative of premodern political thought. Authors examined may include Plato, Aristotle, Xenophon, Cicero, Augustine, and Aquinas. (Cross-listed with PSCI 8316)

**Prerequisite(s):** PSCI 2310 or junior standing or permission of instructor.

**PSCI 4320 EARLY MODERN POLITICAL THOUGHT (3 credits)**

This course introduces students to key works of the 16th through mid-18th centuries. Authors examined may include Machiavelli, Hobbes, Hume, Smith and Montesquieu. (Cross-listed with PSCI 8326)

**Prerequisite(s):** PSCI 2310 or junior standing or permission of instructor

**PSCI 4330 LATE MODERN POLITICAL THOUGHT (3 credits)**

This course introduces students to key texts of the mid-18th through 19th centuries. Authors to be examined may include Rousseau, Burke, Mill, Tocqueville, Marx, and Nietzsche. (Cross-listed with PSCI 8336)

**Prerequisite(s):** PSCI 2310 or junior standing or permission of instructor.

**PSCI 4340 CONTEMPORARY POLITICAL THOUGHT (3 credits)**

This course introduces students to leading works of contemporary political thought, including Marx, Spencer, Dahl, Rawls, feminism, and rational choice. The theories, their interrelationships, the theorists, and the manifestations of these works will be discussed and analyzed. (Cross-listed with PSCI 8346)

**Prerequisite(s):** PSCI 2310 or junior standing or permission of instructor.

**PSCI 4350 DEMOCRACY (3 credits)**

A basic study of theory, practice and practitioners of political democracy, its roots, development, present application and problems and future. (Cross-listed with PSCI 8356)

**Prerequisite(s):** PSCI 2500 or junior standing or permission of instructor is required.

**PSCI 4360 AUTHORITARIAN REGIMES (3 credits)**

An analysis of various types of authoritarian regimes, their differences from democratic governments, and the causes of their establishment, maintenance, and failure. (Cross-listed with PSCI 8366).

**Prerequisite(s):** PSCI 2500 or equivalent is recommended.

**PSCI 4370 GENERALS AND POLITICIANS: CIVIL-MILITARY RELATIONS (3 credits)**

This course introduces students to civil-military relations and military politics across the globe. (Cross-listed with PSCI 8376).

**Prerequisite(s):** PSCI 2500 or junior standing or permission of the instructor.

**Distribution:** Global Diversity General Education course

**PSCI 4380 TOPICS IN POLITICAL THEORY (3 credits)**

This course will conduct an in-depth exploration of an important issue, movement, thinker, or work in political theory. The particular subject matter will vary and will be chosen by the instructor.

**Prerequisite(s):** Junior, or permission of instructor. Junior, or permission of instructor. Not open to non-degree graduate students.

**PSCI 4430 INDIAN GAMING (3 credits)**

This course will be an in depth study of the history and development of Indian Gaming law and policy. (Cross-listed with NAMS 4140).

**Prerequisite(s):** PSCI 1100, or junior standing, or permission of instructor.

**PSCI 4440 FEDERAL INDIAN LAW (3 credits)**

This course provides an overview of tribal legal authority as it exists within federal law. It includes traditional North American tribal governance and leadership practices. Key topics include the federal-tribal trust relationship, Indian treaties, federal Indian policies and case law, and 20th Century establishment of modern tribal governments and courts. (Cross-listed with NAMS 4440).

**Prerequisite(s):** PSCI 1100, or junior standing, or permission of instructor.

**PSCI 4450 CONTEMPORARY TRIBAL NATION BUILDING (3 credits)**

This course applies traditional North American tribal governance and leadership beliefs and practices in a critical examination of contemporary tribal governments, tribal courts and programs, and tribal leaders. This course challenges students to assess present tribal governments and leaders concerning their effectiveness in meeting the needs of tribal people today. (Cross-listed with NAMS 4240).

**Prerequisite(s):** PSCI 1100, or junior standing, or permission of instructor.

**PSCI 4470 SOUTH AFRICA & THE SOCIO POLITICS OF APARTHEID (3 credits)**

South Africa and the Socio Politics of Apartheid examines the lived experiences of South African people under the Apartheid system, and their long struggle against European colonial oppression and racial segregation throughout the 20th century. Students will examine the laws, tools, and strategies that developed and sustained Apartheid, and the anti-Apartheid movements and international pressure that led to its repeal and South African democratic elections. (Cross-listed with BLST 8476, BLST 4470, PSCI 8476, SOC 8476, SOC 4470).

**Prerequisite(s):** Junior standing or permission of instructor

**Distribution:** Global Diversity General Education course

**PSCI 4500 GOVERNMENT AND POLITICS OF GREAT BRITAIN (3 credits)**

A comprehensive study of contemporary British politics and government. Emphasis will be focused on the formal institutions and informal customs and practices of the British political system. (Cross-listed with PSCI 8506).

**Prerequisite(s):** Junior

**PSCI 4520 POLITICS OF FRANCE (3 credits)**

This course introduces students to the political heritage of France, contemporary political institutions and problems, and political and policy responses to these problems. (Cross-listed with PSCI 8526)

**Prerequisite(s):** PSCI 2500 or junior standing or permission of instructor.

**Distribution:** Global Diversity General Education course

**PSCI 4550 POLITICAL VIOLENCE, INSURGENCY, AND TERRORISM (3 credits)**

This course is a survey on the types of violence used within a political context, focusing on its causes, forms and consequences. Specifically, this course details why and how violence occurs, and its impact on institutions and the people operating within that system. (Cross-listed with PSCI 8556).

**Prerequisite(s):** PSCI 2210 or PSCI 2500

**PSCI 4620 ISLAM AND POLITICS (3 credits)**

This course introduces students to the interaction between religion and politics in the Muslim world, covering various political ideologies in the Muslim world and different experiences of Muslim-majority countries such as Saudi Arabia, Pakistan, Iran, Turkey, Indonesia, and Egypt. It will also analyze mainstream and radical transnational Islamic movements. (Cross-listed with PSCI 8626)

**Prerequisite(s):** PSCI 2210 or 2500 is recommended.

**Distribution:** Global Diversity General Education course

**PSCI 4630 ASIAN POLITICS (3 credits)**

This course provides students with a broad understanding of Asian Politics with a focus on Northeast Asia (Mainland China, Japan, South Korea, North Korea, and Taiwan) and some emphasis on Southeast Asia (Singapore, Philippines, Thailand, and Vietnam). Students in this course will investigate these Asian societies and discuss their shared history as well as their common political themes, patterns, and connections. Students will explore state institutions, political parties, and state-society relations through the overarching themes of development, democracy, and nationalism. Specific themes include the economic rise of East Asian states, the emergence and development of democracy in the region, and the persistence of authoritarianism. By the end of the course, students will be able to describe, explain, and critically evaluate from a social science perspective the principal political features and processes of these Asian societies and develop their own research projects based on a topic discussed in the course. (Cross-listed with PSCI 8646).

**Prerequisite(s):** PSCI 2500 or equivalent is recommended.

**PSCI 4710 COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION (3 credits)**

Comparative International Development and Innovation will analyze the rise and fall of civilizations from a historical and theoretical perspective in a comparative manner. The course will address issues concerning political, social, economic, and environmental change in national, and international contexts. Among its major emphases are state institutions, economic growth, entrepreneurship, and the transformation of social structure and culture. (Cross-listed with PSCI 8716, ENTR 4710, ENTR 8716).

**PSCI 4770 POLITICAL SOCIOLOGY (3 credits)**

This course explores political sociology, focusing on political processes and power. Political sociologists investigate relationships between political institutions and various other institutions, including but not limited to the economy, education, media, and religion, and the impacts that these relationships have on society and the individuals that comprise the society. This course will explore the concepts, theories, and knowledge that comprise this field such as power, legitimacy, the state, networks, stratification, and collective action. (Cross-listed with PSCI 8776, SOC 4770, SOC 8776).

**Prerequisite(s):** SOC 1010, junior standing or permission of instructor

**PSCI 4820 POLITICS AND FILM (3 credits)**

This course introduces students to the analysis of politics and film, focusing on how politics is portrayed in film and the politics of film making. (Cross-listed with PSCI 8826)

**PSCI 4900 READINGS IN POLITICAL SCIENCE (1-3 credits)**

This course provides students an opportunity to study an advanced and specialized subject matter in the field of political science not covered in existing courses. The student must be capable of pursuing a highly independent course of study, which must be approved in consultation with the instructor in advance. This course may be repeated for different topics up to a maximum of six credit hours.

**Prerequisite(s):** Permission of instructor.

**PSCI 4910 POLITICAL SCIENCE INTERNSHIP (1-6 credits)**

This course offers students an opportunity to experience the resolution of public issues through direct involvement in career-oriented policy organizations. The host organization must be approved in advance in consultation with the internship coordinator. This course may be repeated for a maximum of six credit hours.

**Prerequisite(s):** Permission of instructor.

**PSCI 4920 ADVANCED SPECIAL TOPICS IN POLITICAL SCIENCE (1-3 credits)**

This course introduces students to an advanced and specialized subject matter in the field of political science not covered in existing courses. This course may be repeated for different topics up to a maximum of six credit hours. (Cross-listed with PSCI 8926)

**Prerequisite(s):** Junior standing or permission of instructor.

**PSCI 4930 WARGAMING LAB (1 credit)**

This 1-CR Lab will explore, develop, practice, and analyze a series of wargaming scenarios, ranging from traditional military security to business, emergency management, and cybersecurity. While the term wargaming might conjure your local D&D club, increasingly governments, businesses, and other organizations are applying wargames to test readiness, identify problems before they arise, and familiarize critical personnel with possible futures. In this Lab, students will participate in the development of three plausible, yet imaginative scenarios of near-future events featuring civilian and military topics (e.g., business, cybersecurity, emergency management, international diplomacy, and military conflict), analyze the results, and apply lessons learned to their future career fields.

**Prerequisite(s):** Students must have sophomore standing or above.

**PSCI 4950 SENIOR ASSESSMENT IN POLITICAL SCIENCE (0 credits)**

This zero-credit-hour course is used to assess the knowledge and skills that are imparted by the Political Science program to its students. Seniors must enroll in the class, take the major field test, and submit a writing assignment from one of their upper level political science courses. Because this is a 0 credit course, these items will not be graded, but they will be scored for purposes of program assessment.

**Prerequisite(s):** Senior standing. Permission of Department Chair required.

**Distribution:** Writing in the Discipline Single Course

# Psychology (PSYC)

## Psychology Undergraduate Courses

**PSYC 1010 INTRODUCTION TO PSYCHOLOGY I (3 credits)**

An overview of scientific understanding of the human mind and behavior. Theories and empirical tests of explanations for how we think, feel, and act. This course is a prerequisite to all subsequent, more specialized courses in Psychology.

**Distribution:** Social Science General Education course

**PSYC 1020 INTRODUCTION TO PSYCHOLOGY II (3 credits)**

Provides students who have completed a course in introductory psychology with an opportunity for in-depth study of selected areas of psychology along with related laboratory experiences. Research methodology is emphasized.

**Prerequisite(s):** PSYC 1010. The proposed course is designed to build upon the content knowledge gained in a first introductory psychology course.

**PSYC 2000 CAREER PATHS IN PSYCHOLOGY (1 credit)**

A course that introduces the student to the different career paths available to psychology majors, both within and outside of the psychology field and those including graduate or professional school as well as career paths for those with bachelor's degrees. Required of psychology majors. This is a one (1) hour credit course.

**Prerequisite(s):** PSYC 1010.

**PSYC 2040 EXPLORATIONS IN THE SCIENCE OF PSYCHOLOGY (3 credits)**

This course explores the scientific foundation of psychology representing several topic areas such as Learning, Developmental, Cognitive, and Physiological Psychology. Basic application of statistics and APA manuscript writing will build a solid background for upper-level courses in Psychology.

**Prerequisite(s):** PSYC 1010. Not open to non-degree graduate students.

**PSYC 2100 LEARNING ASSISTANT SEMINAR (0 credits)**

This course focuses on effective methods of college teaching and instructional strategies. Students participate in activities designed to increase their understanding of the role of a Learning Assistant.

**Prerequisite(s):** PSYC 1010 and permission of instructor. Not open to non-degree graduate students.

**PSYC 2500 LIFESPAN PSYCHOLOGY (3 credits)**

A life span approach to development focusing on the biological, cognitive, and social emotional changes in development occurring from infancy through old age. The impact of these changes on the individual's behavior and interactions with society will be emphasized.

**Prerequisite(s):** PSYC 1010.

**PSYC 3130 STATISTICS FOR THE BEHAVIORAL SCIENCES (3 credits)**

An introduction to statistics with particular emphasis on models and hypothesis testing covering analysis of variance, chi-square, F and t-tests, first-order regression and correlation.

**Prerequisite(s):** One from this list: MATH 1120, MATH 1300, MATH 1320, STAT 1530, MATH 1310 or MATH 1220. Psychology Majors Only: PSYC 2040 (prior to, or concurrent with).

**PSYC 3140 RESEARCH METHODS IN PSYCHOLOGY (4 credits)**

An introduction to the methods by which psychologists attempt to create, disseminate and integrate knowledge about behavior.

**Prerequisite(s):** Psychology majors require PSYC 2000, PSYC 3130 or STAT 3000, and ENGL 1160. Neuroscience majors require PSYC 3130 or STAT 3000, and ENGL 1160.

**Distribution:** Writing in the Discipline Single Course

**PSYC 3150 SMALL-N RESEARCH METHODS (4 credits)**

This course provides an introduction to small-n research methods including design, implementation, analysis, dissemination, and integration knowledge about behavior. Students also learn to use small-n designs to identify evidence-based practices to address clinical problems experienced by individuals across a variety of settings and how to critically evaluate research in psychology. The course differs from other research methods courses (e.g., those involving qualitative methods or group designs) with its focus on objective, repeated measurement and analysis of performance at the level of the individual. This course fulfills the Writing in the Discipline Requirement for Psychology.

**Prerequisite(s):** PSYC 3130 or STAT 3000 or Junior Status. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**PSYC 3250 RACE, PSYCHOLOGY & CULTURAL DIFFERENCE (3 credits)**

Race, Psychology & Cultural Difference is an introductory course that teaches students the psychology behind prejudice, stereotyping, and implicit bias when encountering racial and cultural difference, with particular focus on African Americans. In this course, students will explore concepts of racial and cultural difference, examine fundamental psychological concepts relative to racial and cultural prejudice and stigmas, and discuss cognitive processes of categorization and stereotyping that shape perceptions of racial and cultural difference. Overall, students will explore a conceptual framework for understanding race, psychology, and cultural difference and will learn psychological well-being strategies and approaches for mindfulness, self-regulation, and self-affirmation as challenges to racial and cultural prejudice, stereotyping, and implicit bias. (Cross-listed with BLST 3250).

**Prerequisite(s):** Sophomore standing or permission of instructor

**PSYC 3410 CLINICAL PSYCHOLOGY (3 credits)**

A broad survey of problems and practices in the diagnosis and treatment of emotional and behavioral disorders.

**Prerequisite(s):** PSYC 1010.

**PSYC 3430 PERSONALITY AND ADJUSTMENT (3 credits)**

The study of persons in a social context and their resultant effective and ineffective behavior, with emphasis on types of adjustment.

**Prerequisite(s):** PSYC 1010.

**PSYC 3450 SOCIAL PSYCHOLOGY (3 credits)**

Social interaction studied in situations of (1) social influences on individuals, (2) dyads or face-to-face groups, and (3) larger social systems. The concepts, theories, data, research methods and applications of varied substantive topics are examined. (Cross-listed with SOC 3450)

**Prerequisite(s):** SOC 1010 or PSYC 1010

**PSYC 3510 EDUCATIONAL PSYCHOLOGY (3 credits)**

A study of the capacities and interests of children and their individual differences. Factors that influence learning and an evaluation of learning and classroom procedures are included.

**Prerequisite(s):** PSYC 1010.

**PSYC 3520 CHILD PSYCHOLOGY (3 credits)**

A study of the biological, social, emotional and cognitive development of the child emphasizing infancy and childhood.

**Prerequisite(s):** PSYC 1010.

**PSYC 3540 ADOLESCENT PSYCHOLOGY (3 credits)**

A review of theory and available evidence useful in understanding changes and problems in the physical, intellectual, social and emotional adjustment of individuals in adolescence.

**Prerequisite(s):** PSYC 1010.

**PSYC 3650 PHILOSOPHY OF MIND (3 credits)**

A discussion of various accounts of the nature of minds which focuses upon philosophical problems such as whether the mind is identical with the brain, the extent of similarities between human minds and computers, the nature of personal identity and the relationship of mental activity to behavior. (Cross-listed with PHIL 3650, PHIL 8655).

**Prerequisite(s):** No Prerequisites. Some prior coursework in Philosophy is recommended but not required.

**PSYC 4010 HISTORY OF PSYCHOLOGY (3 credits)**

A study of the origins, development and nature of psychology and its relation to external events; emphasis on the period since 1875. (Cross-listed with PSYC 8016)

**Prerequisite(s):** at least 15 hours of Psychology credits including PSYC 1010 or approval of instructor. Not open to non-degree students or students in other departments or programs.

**PSYC 4020 LEARNING (3 credits)**

A comprehensive coverage of the experimental literature and theories on human and animal learning.

**Prerequisite(s):** PSYC 1020

**PSYC 4024 LABORATORY IN PSYCHOLOGY: LEARNING (3 credits)**

Classical experiments and a service-learning research project designed to apply general learning principles. Systematic techniques used to assess behavior changes associated with the learning process, research design, and scientific report writing will be emphasized.

**Prerequisite(s):** PSYC 3140 and PSYC 4020. Not open to nondegree students.

**PSYC 4030 CONCEPTUAL ANALYSIS OF BEHAVIOR (3 credits)**

This course will provide students with an introduction to the theory and philosophy of behavior. Students will explore the history and foundations of behaviorism, alternative and contrasting perspectives of behavior, the shift from Behavior Modification to Behavior Analysis, the analysis of behavior within, and contemporary applications of Behavior Analysis. This course will emphasize and revisit how the theory and philosophy of behavior translate to real-world applications.

**Prerequisite(s):** At least 15 hours of Psychology including PSYC 1010. Not open to non-degree graduate students.

**PSYC 4070 COGNITIVE PSYCHOLOGY (3 credits)**

An exploration of historical and contemporary research and theory concerned with cognitive processes including attention, memory, problem solving and concept formation.

**Prerequisite(s):** PSYC 1020.

**PSYC 4074 LABORATORY IN PSYCHOLOGY: COGNITION, SENSATION AND PERCEPTION (3 credits)**

Laboratory work coordinated with PSYC 4070, emphasizing a presentation of methods of research assessing human attention, memory and problem-solving processes. Research design, data analysis and research report writing are also emphasized.

**Prerequisite(s):** PSYC 3140 and PSYC 4070 or PSYC 4090 or PSYC 4210.

**PSYC 4090 COGNITIVE NEUROSCIENCE (3 credits)**

This course is concerned with the relationship between cognition and the brain. Special attention will be devoted to the techniques used to study specific relationships and the theoretical perspectives that have guided research in the area. Topics for the course include history, neural mechanisms, methods, lateralization of function, sensation and perception, memory, language, action and movement, executive processes, computer models, and the social brain.

**Prerequisite(s):** PSYC 1020 or NEUR 1520 or NEUR 1540. Not open to non-degree graduate students.

**PSYC 4110 POLITICAL PSYCHOLOGY (3 credits)**

This course introduces students to the role of human thought, emotion, and behavior in politics through examination of the psychological factors that motivate political elites and the mass public. (Cross-listed with PSCI 4110, PSCI 8116, PSYC 8116)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSYC 4130 ADVANCED UNDERGRADUATE STATISTICS FOR THE BEHAVIORAL SCIENCES (3 credits)**

Traditional undergraduate statistics courses cover a range of inferential approaches allowing students to begin engaging in social science research. Nevertheless, those pursuing a senior thesis, participating in a research lab and/or considering going to graduate school would benefit from additional statistical training. This course aims to expand on the material covered in traditional behavioral statistics classes and offers students the opportunity to develop expertise in additional approaches usually reserved for graduate students. Combining examples from developmental psychology, cross-cultural comparisons, adolescent peer relations and psycho-physiology, we will cover advanced statistical approaches with the goal of tackling questions that apply in the real world. This course focuses on learning both the mechanics of correlation and regression as well as an understanding of the statistical concepts underlying correlations and regression, the use of these statistics and interpretation of the results.

**Prerequisite(s):** PSYC 3130, MATH 1120, STAT 1530, MATH 1310 or MATH 1220.

**PSYC 4150 AFRICAN AMERICAN PSYCHOLOGY (3 credits)**

African American Psychology traces the psychological history of Africans and African Americans from self-attributes and identity, through race and racism, to cognition, learning, and language. This course will review concepts relevant to understanding the psychology of African Americans, methodological and research issues, and best practices. (Cross-listed with PSYC 8156, BLST 4150, BLST 8156).

**Prerequisite(s):** PSYC 1010 and Junior standing or Instructor permission  
**Distribution:** U.S. Diversity General Education course

**PSYC 4160 NEUROPHARMACOLOGY (3 credits)**

Neuropharmacology will introduce students to ligand-receptor interactions and their effects on behavior, cognition, and development. This course will characterize the molecular structure of ligands and how these small molecules or biologics affect central nervous system receptors and transporters. Students will learn about structure-activity relationships and principles of pharmacology: distribution, metabolism, pharmacokinetics, and elimination) and explore the historical milestones in drug development. We'll also discuss the dynamic actions of drugs of abused drugs and the mechanisms of action. For undergraduate Neuroscience Majors, the course counts as a Neuroscience Block 1. (Cross-listed with PSYC 8166, NEUR 4160, NEUR 8166).

**Prerequisite(s):** Need at least one: NEUR 1520 or NEUR 1540 or PSYC 1020 or BIOL 1450. And need NEUR 3600 or PSYC 3140. PSYC 4230 recommended for students who have not taken NEUR 1520 or BIOL 1450.

**PSYC 4210 SENSATION AND PERCEPTION (3 credits)**

Reading and discussion concerning psychophysical methods, sensory physiology, phenomenology of various sensory systems and theories of the perceptual process.

**Prerequisite(s):** PSYC 1020 or NEUR 1520 or NEUR 1540.



**PSYC 4230 BEHAVIORAL NEUROSCIENCE (3 credits)**

A comprehensive study of the relationship of the nervous and other organ systems to behavior. Research on both human and other animal species is considered. (Cross-listed with NEUR 4230).

**Prerequisite(s):** PSYC 1010 OR BIOL 1450

**PSYC 4234 LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (3 credits)**

Laboratory course designed to introduce the students to the techniques and procedures of physiological psychology. Scientific report writing, problems of research design and data analysis also will be emphasized.

**Prerequisite(s):** PSYC 3140. Psych majors PSYC 4230; Neuroscience majors NEUR 1520 or NEUR 1540.

**PSYC 4240 PHILOSOPHY OF EMOTION (3 credits)**

In this class, we will aim to understand emotions, moods, attitudes, and other affective phenomena from a broad, empirically informed perspective while keeping practical issues in mind. We will ask questions such as: What are emotions, moods, and the rest? How are these various affective phenomena related to one another? How do they provide information about our relationship to the world? Under what conditions are they appropriate or inappropriate? What role do they play in our reasoning and decision-making? What role do they play in our ethical lives? What role do they play in the arts (e.g., music, literature, film)? (Cross-listed with PHIL 4240).

**Prerequisite(s):** No prerequisites. Some prior philosophical coursework would be useful, but it is not required.

**PSYC 4250 LIMITS OF CONSCIOUSNESS (3 credits)**

Consciousness is often considered one of the last great mysteries of science. Despite our internal experience of pleasures, sights, sounds, and pains, it is a largely open question why we have these experiences and what makes them happen. This upper level seminar class examines the philosophy, psychology, and neuroscience of consciousness. Topics covered will include neuroscientific theories of consciousness, unconscious perception, the relationship between attention and consciousness, animal consciousness, and detecting consciousness in the persistent vegetative state. (Cross-listed with PSYC 8256, PHIL 4250, PHIL 8256)

**Prerequisite(s):** PSYC 1010; or 6 hours in Philosophy. Not open to non-degree graduate students.

**PSYC 4260 MORAL PSYCHOLOGY (3 credits)**

The growing interdisciplinary field of moral psychology studies our moral beliefs and decision-making processes using the tools of anthropology, psychology, philosophy, and neuroscience. Topics in the science of morality will include the moral-conventional distinction (the distinction between moral norms and non-moral norms such as etiquette), the role of reasons vs. emotions in moral judgment, the brain basis of moral decision-making, cultural differences in moral norms, psychopathy, and the development of morality in children. Psychology studies the nature of moral judgment using behavioral tasks. Neuroscience employs techniques such as functional magnetic resonance imaging (fMRI), transcranial magnetic stimulation (TMS), and other tools for monitoring and manipulating brain processes to study "where" in the brain moral decision making occurs and the nature of these decisions. Throughout the course, we will examine how these empirical findings intersect with the ethical choices that we ought to make. (Cross-listed with PHIL 4260).

**Prerequisite(s):** No prerequisites. Some prior course work in Philosophy is recommended, but not required.

**PSYC 4270 ANIMAL BEHAVIOR (3 credits)**

Behavior of diverse animals for the understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit. (Cross-listed with PSYC 8276, BIOL 4270, BIOL 8276)

**Prerequisite(s):** BIOL 1750 and PSYC 1010 or permission of instructor, junior-senior.

**PSYC 4280 ANIMAL BEHAVIOR LABORATORY (3 credits)**

Laboratory and field studies of animal behavior with an ethological emphasis. Classical laboratory experiences and independent studies will be conducted. (Cross-listed with PSYC 8286, BIOL 4280, BIOL 8286)

**Prerequisite(s):** PSYC 4270 or BIOL 4270 or PSYC 8276 or BIOL 8273. Not open to non-degree graduate students.

**PSYC 4310 PSYCHOLOGICAL AND EDUCATIONAL TESTING (3 credits)**

The use of standardized tests in psychology and education is considered with special regard to their construction, reliability and validity. (Cross-listed with PSYC 8316)

**Prerequisite(s):** PSYC 1010 and junior/senior. Not open to non-degree graduate students.

**PSYC 4320 HORMONES & BEHAVIOR (3 credits)**

In this course, students will examine the interaction between hormones, chemical messengers released from endocrine glands, and behavior in both human and animal systems. Methods for studying hormonal issues on behavior will be addressed. This course will provide students in psychology, biology, and related disciplines an understanding of how hormones affect sensory processing, motor activities, and processing of information in the central nervous system. (Cross-listed with PSYC 8326, BIOL 4320, BIOL 8326)

**Prerequisite(s):** PSYC 1010 and either BIOL 1020 or 1750. Not open to non-degree graduate students.

**PSYC 4340 ADVANCED BEHAVIORAL NEUROSCIENCE (3 credits)**

Building on content from Introductory Neuroscience courses, this course will deeply explore the fundamental link between behavior and biological processes. Prepare to unravel the mysteries of behavior, cognition, emotions, sensory systems, and disorders by exploring cutting-edge neuroscience methods to reveal the specific cells and neurobiological processes that give rise to human and animal behavior. PSYC 4230 should not be taken after the completion of this course. (Cross-listed with NEUR 8346, NEUR 4340).

**Prerequisite(s):** NEUR 1520 and NEUR 1540, or PSYC 4230

**PSYC 4350 BASIC/EXPERIMENTAL BEHAVIOR ANALYSIS (3 credits)**

This course provides an overview of essential concepts on basic and experimental behavior analysis. Students will learn to apply a theoretical framework of behavior change concepts to socially important behaviors.

**Prerequisite(s):** PSYC 1010; PSYC 4020. Not open to non-degree graduate students.

**PSYC 4414 LABORATORY IN APPLIED BEHAVIOR ANALYSIS (3 credits)**

Laboratory and field experience emphasizing practice and research used in behavior analysis. Emphasis will be placed on application of behavioral principles and tactics in community settings (e.g., clinic, home, school).

**Prerequisite(s):** PSYC 3140 or PSYC 3150; PSYC 4020; PSYC 4570 or instructor approval. Not open to non-degree graduate students.

**PSYC 4440 ABNORMAL PSYCHOLOGY (3 credits)**

A course designed to examine the aberrant behavior of individuals. Symptoms, dynamics, therapy and prognosis of syndromes are considered. (Cross-listed with PSYC 8446)

**Prerequisite(s):** PSYC 1010. Not open to non-degree graduate students.

**PSYC 4444 CAPSTONE IN PSYCHOLOGY: MENTAL HEALTH (3 credits)**

PSYC 4444 is a capstone course to apply and expand concepts learned in mental health coursework. Students will experience exposure to and practice utilizing mental health skills such as interviewing, screening, assessment, service coordination, family-centered care, report-writing, group intervention, basic observation and data collection, mental health documentation, and other skills needed in applied mental health settings within a multicultural perspective.

**Prerequisite(s):** PSYC 3130 and ONE of the following classes: PSYC 4440, PSYC 4470, PSYC 4510, PSYC 4570, PSYC 4590. PSYC 3140 or PSYC 3150 recommended but not required. Open to Juniors and Seniors. Not open to non-degree graduate students.



**PSYC 4450 PERSONALITY THEORIES (3 credits)**

A comparative approach to the understanding and appreciation of personality theories considering history, assertions, applications, validations and prospects. (Cross-listed with PSYC 8456)

**Prerequisite(s):** PSYC 1010. Not open to non-degree graduate students.

**PSYC 4460 PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (3 credits)**

The focus of this course is on the major social and psychological changes that occur as a function of aging. Both normal and abnormal patterns of developmental change are examined, along with their implications for behavior. (Cross-listed with GERO 4460, GERO 8466).

**Prerequisite(s):** Sophomore, Junior, or Senior.

**PSYC 4470 MENTAL HEALTH AND AGING (3 credits)**

The goal of this courses is to survey the mental health needs of older adults. Consideration is given to identifying both positive mental health and pathological conditions. Treatment interventions effective with older adults and their families are also discussed. (Cross-listed with PSYC 8476, GERO 4470, GERO 8476)

**Prerequisite(s):** Sophomore, Junior, or Senior

**PSYC 4510 PSYCHOLOGY IN THE SCHOOLS (3 credits)**

This course introduces students to the academic and mental health needs of children and youth in schools, as well as how those needs are addressed individually and systemically. A service learning experience enables students to work directly with school-age children.

**Prerequisite(s):** PSYC 1010. Not open to non-degree graduate students.

**PSYC 4520 PSYCHOLOGY OF LANGUAGE (3 credits)**

Language is what makes us human. It influences our thoughts and affects our lives in many ways. In this class, topics include the distinctive features of human language as a system of communication, the understanding and production of speech, reading and spelling, language development, bilingualism, language disorders, and how our social and cultural environment can influence how language is used. (Cross-listed with PSYC 8526)

**Prerequisite(s):** Senior or graduate or permission of instructor. Not open to non-degree graduate students.

**PSYC 4530 CULTURAL PSYCHOLOGY (3 credits)**

This course will provide an overview of the cultural, community and ecological factors that play a role in how people perceive their environments. The goal is to investigate the ways in which culture affects individual behaviors, attitudes and cognitions. It may be easy to tell that two cultures are different, but identifying exactly what is meant - and all that is encompassed - when speaking about "culture" can be much more difficult. Culture can include everything from gender constructs and race/ethnicity to the effects of new technologies. All of these aspects of culture affect individuals' psychological make-up and behavior. Although psychology has largely developed from a Western tradition, attention to research from non-Western perspectives will also be emphasized. This course supports the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with PSYC 8536, CACT 8106).

**Prerequisite(s):** PSYC 1010.

**PSYC 4544 LABORATORY IN DEVELOPMENTAL PSYCHOLOGY (3 credits)**

Laboratory work coordinated with PSYC 3520 and PSYC 3540 emphasizing the methods of research and statistical analyses used in the study of human development. Emphasis will be placed on the development of skills involved in the design of experiments, data collection, data analysis, reasoning about results, and scientific report writing.

**Prerequisite(s):** PSYC 3140, PSYC 3520, and PSYC 3540 or permission of instructor. Not open to non-degree graduate students.

**PSYC 4560 FORENSIC PSYCHOLOGY (3 credits)**

The roles and functions of forensic psychologists, as participants in the legal system, are studied, with special emphasis on the relevance of theories and principles from social psychology. Psychological concepts, theories, data, research methods and applications to varied substantive topics are examined (e.g., forensic careers, police psychology, violence, criminal profiling, sociopathy and psychopathy, risk assessment, expert testimony, and corrections).

**Prerequisite(s):** PSYC 1010 or SOC 1010 and PSYC 3450 or SOC 3450.

**PSYC 4570 BEHAVIOR ANALYSIS AND INTERVENTIONS (3 credits)**

Introduction to experimental methodology, rationale and research literature of changing behavior through behavior modification techniques. Particular attention will be paid to methodological concerns regarding single subject design, ethical considerations and ramifications of behavior intervention with children and youth. (Cross-listed with PSYC 8576)

**Prerequisite(s):** PSYC 1010 and permission of instructor. Not open to non-degree graduate students.

**PSYC 4590 PSYCHOLOGY OF EXCEPTIONAL CHILDREN (3 credits)**

A study of exceptional children and adolescents with sensory or motor impairments, intellectual retardations or superiorities, talented or gifted abilities, language or speech discrepancies, emotional or behavioral maladjustments, social or cultural differences, or major specific learning disabilities.

**Prerequisite(s):** PSYC 1010 and junior/senior.

**PSYC 4630 ORGANIZATIONAL PSYCHOLOGY (3 credits)**

This is a survey course which will cover the major concepts, theories and empirical research related to organizational psychology. Specific topics will include: work motivation, leadership, decision making and job satisfaction as well as more recent trends such as cultural diversity, work teams, work-family and quality issues. (Cross-listed with PSYC 8636)

**Prerequisite(s):** PSYC 1010. Not open to non-degree graduate students.

**PSYC 4640 PERSONNEL PSYCHOLOGY (3 credits)**

A survey of psychological principles, theories and research related to personnel issues. Course includes discussion of personnel selection, performance appraisal, recruitment, training and health and safety. (Cross-listed with PSYC 8646)

**Prerequisite(s):** PSYC 1010. Not open to non-degree graduate students.

**PSYC 4644 LABORATORY IN PSYCHOLOGY: SOCIAL/INDUSTRIAL-ORGANIZATIONAL (3 credits)**

Laboratory work coordinated with PSYC 3450 and PSYC 4630 or PSYC 4640, emphasizing a presentation of methods of research assessing human social behavior and applied psychological processes. Research design, data analysis and research report writing are also emphasized.

**Prerequisite(s):** PSYC 3140, PSYC 3450 and PSYC 4630 or PSYC 4640.

**PSYC 4650 CREATIVITY AND INNOVATION IN ORGANIZATIONS (3 credits)**

To provide a discussion of the antecedents of individual and organizational creativity, including measurement, models, characteristics of the individual and the environment that facilitate creativity and innovation in an organizational setting. Students in this course will be able to understand the research literature related to creativity and innovation and apply the findings to improve critical and creative thinking, implementation of creative ideas, and development of creative teams and organizations. This course supports the Organizational Science and Leadership concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with PSYC 8656, CACT 8506)

**PSYC 4680 POSITIVE PSYCHOLOGY, HEALTH, & WELL-BEING (3 credits)**

Positive psychology is the scientific study of the "good life", or the positive aspects of the human experience that make life worth living. The discipline of positive psychology focuses on both individual and societal well-being. Students will learn the tenets of positive psychology and well-being research findings, including the various definitions and operationalizations of happiness and well-being.

**Prerequisite(s):** PSYC 1010

**PSYC 4800 LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (3 credits)**

This course presents legal principles relevant to all psychological specialties, with special reference to mental health services. Ethical reasoning and the APA ethics code are considered. (Cross-listed with PSYC 8806)

**Prerequisite(s):** 15 hours of Psychology credits including PSYC 1010 or approval of the instructor. Not open to non-degree graduate students.

**PSYC 4810 PRACTICE AND ETHICS IN BEHAVIOR ANALYSIS (3 credits)**

This course presents ethical and legal issues relevant to research and practice in behavior analysis. This class will provide undergraduate students with knowledge of ethic codes and legal statutes that guide the field of applied behavior analysis and psychology more broadly. The primary emphasis will be the practical application of ethics to clinic, school, and community settings where children and adolescents are the recipients of services. Class topics related to ethics will be: principles, decision making, assessment and practice, supervision, research, responsibilities to the field of applied behavior analysis, and responsibility in public statements.

**Prerequisite(s):** PSYC 1010. Not open to non-degree graduate students.

**PSYC 4890 SENIOR ASSESSMENT IN PSYCHOLOGY (0 credits)**

This assessment tool is part of the Department's Student Outcomes effort. It is designed to monitor the Department's performance and to identify changes needed. Graduating seniors must register for and complete this course in the term in which they plan to graduate.

**Prerequisite(s):** Students must register for PSYC 4890 in the term in which they plan to graduate. Not open to non-degree graduate students.

**PSYC 4910 SPECIAL TOPICS IN PSYCHOLOGY (1 credit)**

One credit hour Special Topics courses allow for in-depth study of psychology topics not offered in our regular curriculum. When enrolling, see notes section on course listing for specific topic. May be repeated as topics change, but six hours of Special Topics courses (PSYC 4910, PSYC 4920, and PSYC 4930) is the maximum that may be applied toward a psychology major.

**PSYC 4920 SPECIAL TOPICS IN PSYCHOLOGY (2 credits)**

Two credit hour Special Topics courses allow for in-depth study of psychology topics not offered in our regular curriculum. When enrolling, see notes section on course listing for specific topic. May be repeated as topics change, but six hours of Special Topics courses (PSYC 4910, PSYC 4920, and PSYC 4930) is the maximum that may be applied toward a psychology major.

**Prerequisite(s):** Variable according to topic.

**PSYC 4930 SPECIAL TOPICS IN PSYCHOLOGY (3 credits)**

Three credit hour Special Topics courses allow for in-depth study of psychology topics not offered in our regular curriculum. When enrolling, see notes section on course listing for specific topic. May be repeated as topics change, but six hours of Special Topics courses (PSYC 4910, PSYC 4920, and PSYC 4930) is the maximum that may be applied toward a psychology major.

**PSYC 4960 INDEPENDENT STUDY IN PSYCHOLOGY (1-6 credits)**

A faculty-supervised special research project and or directed readings involving empirical research and appropriate oral and written reports arranged individually with students on topics not explored in other offerings. If students do not complete the work during the semester they enroll in the course, they must complete all the work within an academic year of their enrollment.

**Prerequisite(s):** A minimum of 10 hours of Psychology including PSYC 1010 & PSYC 1020 and 1 additional course. Completion of the Independent Study Form and permission from the Undergraduate Program Committee (UPC).

**PSYC 4970 PRACTICUM IN PSYCHOLOGY (3 credits)**

This course provides an opportunity for practical application and further development of knowledge and skills acquired in the undergraduate psychology major. The practicum will provide a practical and career-building placement in a work setting. Students will develop skills and knowledge important for new steps in careers and graduate programs.

**Prerequisite(s):** PSYC 1020; PSYC 3140; GPA requirement: 2.8; Permission of instructor, and Letter of agreement from industry mentor. Not open to non-degree graduate students.

**PSYC 4980 FIELDWORK PRACTICUM IN BEHAVIOR ANALYSIS (3 credits)**

This course provides an opportunity for practical application and further development of knowledge and skills acquired in the Applied Behavior Analysis concentration within the undergraduate psychology major. The practicum will provide a practical and career-building placement in a work setting. Students will develop knowledge and skills important for new steps in careers within behavior analysis and graduate programs. The experience will be consistent with the supervised fieldwork requirements for individuals pursuing certification as a Board Certified Assistant Behavior Analyst.

**Prerequisite(s):** PSYC 1020; PSYC 4570; GPA requirement: 2.8; OR Permission of instructor

**PSYC 4990 SENIOR THESIS (3-6 credits)**

The course is designed to provide the student with the opportunity to initiate, design, analyze, and write-up an original experimental study in an area of interest to the student. Although the course is intended primarily for students who need to satisfy the requirement of a second experimental/laboratory course in the Bachelor of Science degree program, all students interested in this course will be considered on an individual basis.

**Prerequisite(s):** PSYC 3140 ('B' or better), 'B' average in major; signed statement from faculty member of Psychology Department who is willing to serve as adviser; written approval from chair of undergraduate program committee. Must be a 2nd semester junior or later.

## Public Administration (PA)

### Public Administration Undergraduate Courses

**PA 1010 INTRODUCTION TO URBAN STUDIES (3 credits)**

Introduction to history, concepts, development and literature of urbanism. An interdisciplinary examination of issues confronting contemporary urban society and how various academic disciplines relate to those issues. (Cross-listed with UBNS 1010).

**PA 2000 LEADERSHIP & ADMINISTRATION (3 credits)**

This course is designed to offer students the opportunity to increase their leadership skills by providing them with a series of competency-based seminars/workshops on the characteristics and tasks in which leaders are engaged.

**Distribution:** Social Science General Education course

**PA 2170 INTRODUCTION TO PUBLIC ADMINISTRATION (3 credits)**

A study of governmental administration and its involvement in the social and economic problems of American democracy. It includes but is not limited to the organizational, financial, personnel and planning problems and administrative relations with legislatures, political parties, chief executives and the courts.

**Distribution:** Social Science General Education course

**PA 3000 APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (3 credits)**

A course on the use of data and statistical methods to explore and make inferences about society, while critically considering the influence of context and the powers and limitations of quantitative evidence. (Cross-listed with CRCJ 3000, SOWK 3000).

**Prerequisite(s):** MATH 1120 or MATH 1130 or MATH 1220 or MATH 1300 or MATH 1320 or an ACT of 19, or above or permission from the department.

**PA 3200 PROGRAM PLANNING AND EVALUATION (3 credits)**

Research, program design, and evaluation are critical functions in the non-profit sector. Leaders and managers of non-profit organizations are continually challenged to monitor community needs, select and develop services and programs that respond to those needs, and to evaluate and modify the services they provide. This recurrent process is the foundation of quality non-profit programs. This course prepares students to undertake the research, program design and evaluation process employed in non-profit organizations.

**Prerequisite(s):** PA 3000. Not open to non-degree graduate students.

**PA 3500 NONPROFIT ORGANIZATIONS AND MANAGEMENT (3 credits)**

Introduces students to the nonprofit sector, including several aspects of nonprofit management. Intended for any student who wishes to understand nonprofit organizations and/or who may wish to work in the nonprofit sector. Service learning in a nonprofit agency is an important aspect of the class.

**Prerequisite(s):** Junior standing or permission of instructor.

**PA 3600 PERSONNEL AND VOLUNTEER MANAGEMENT IN NONPROFITS (3 credits)**

This course examines the managerial practices and problems in recruiting, hiring and other staffing issues within nonprofit organizations. It also addresses issues of personnel leadership, accountability, and performance associated with working with volunteers.

**Prerequisite(s):** PA 2170 & PA 3500 or permission from the school. Not open to non-degree graduate students.

**PA 3700 FINANCIAL MANAGEMENT FOR NONPROFITS (3 credits)**

This course will prepare students to oversee the financial management of nonprofit organizations by focusing on four areas: key financial concepts, financial statements presentation, accounting and reporting, and operational issues - emphasizing the links between accounting staff, program staff, fundraising staff and board of directors.

**Prerequisite(s):** PA 2170 and PA 3500. Not open to non-degree graduate students.

**PA 3800 CROSS-SECTOR COLLABORATIVE LEADERSHIP (3 credits)**

The goal of PA 3800/MGMT 3800 is to prepare students to serve as collaborative leaders of cross-sector initiatives. Specifically, this course will prepare students for success in working collaboratively across private, nonprofit and public sector organizations while also enhancing their overall development as a leader. Examples of successful and unsuccessful cross-sector collaborations will be explored along with discussions of theories related to cross-sector collaboration. (Cross-listed with MGMT 3800).

**Prerequisite(s):** Permission from instructor or MGMT 3490 with a grade of C or higher or enrollment in the cross-sector collaborative leadership minor.

**PA 3900 INTRODUCTION TO INTEGRATED LEADERSHIP (3 credits)**

This seminar course provides a cornerstone to understanding and developing an integrative leadership practice by focusing on yourself, your life, and your leadership. Current challenges demand leadership that can integrate perspectives from a personal and collective level. The goal of the course is to identify concepts of integrated leadership, to develop frameworks for understanding the contexts of applying integrated leadership and help develop skills for practicing integrated leadership. This course will explore leading well by understanding and integrating meaning, purpose, and values within the organizations and communities you serve. Through both theory and practice, this course will cultivate self-awareness and introspection through questioning and reflective practice and applying practical leadership skills to solving problems. (Cross-listed with APLD 3900).

**Prerequisite(s):** ENGL 1150 (C- or better) or equivalency.

**PA 4100 MARKETING IN PUBLIC, NON-PROFIT AND AVIATION ORGANIZATIONS (3 credits)**

This course will focus on developing a working knowledge of marketing and its component parts as they may be applied to non-profit organizations. Emphasis will be placed on understanding the marketing process and applying marketing principles to real organizational settings. (Cross-listed with PA 8106).

**PA 4210 INTRODUCTION TO HEALTH CARE SYSTEMS (3 credits)**

This course is designed to familiarize students with the structure of the health services system in the United States. It addresses quality, access and cost of health services delivery, personnel and funding resources for providing health care, financing health care, traditional and alternative health services delivery settings, and forces that shape the current and future health care sector.

**PA 4300 SEMINAR IN PUBLIC POLICY (3 credits)**

A study of the economic, social and political determinants of public policy in terms of administration and decision-making and of measuring and evaluating policy impact. The course includes both study of general policy processes, and, to a lesser extent, particular policy topics.

**Prerequisite(s):** PA 2170

**PA 4390 PUBLIC BUDGETING (3 credits)**

A study of the processes, procedures and politics of public sector budgeting.

**PA 4410 PUBLIC PERSONNEL MANAGEMENT (3 credits)**

A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance.

**Prerequisite(s):** PA 2170, junior.

**PA 4430 MUNICIPAL ADMINISTRATION (3 credits)**

The administrative structure and administrative practices of American cities covering such areas as finance, personnel, public works, public safety, health, utilities and planning. (Cross-listed with PA 8436).

**Prerequisite(s):** Junior. Not open to non-degree graduate students.

**PA 4440 ORGANIZATIONAL DEVELOPMENT AND CHANGE (3 credits)**

The ability to lead and manage organizational change is a required competency for individuals working public sector related fields. Civic leaders, public administrators and non-profit managers must diagnose and respond to the dynamic and interconnected environment in which they work. This course prepares students to conduct the forms of analysis that organizational development and change requires.

**PA 4500 NONPROFIT FUNDRAISING (3 credits)**

Introduces students to issues and techniques for resource development within nonprofit organizations, including fundraising, program planning and budgeting, and marketing. Intended for students who wish to understand resource development within nonprofit organizations. Service learning with a nonprofit agency is an important aspect of the class.

**Prerequisite(s):** PA 2170 and PA 3500

**PA 4510 LONG-TERM CARE ADMINISTRATION (3 credits)**

An investigation of the broad range of policy issues, theoretical concerns and practical management strategies influencing the design, organization and delivery of long-term care services. (Cross-listed with GERO 4510, GERO 8516 and PA 8516).

**Prerequisite(s):** PA 2170

**PA 4530 STRATEGIC PLANNING (3 credits)**

The ability to lead and manage a strategic planning process is a required competency for individuals working public sector related fields. Civic leaders, public administrators and non-profit managers must diagnose and respond to the dynamic and interconnected environment in which they work. This course prepares students to conduct the forms of analysis that strategic planning requires.

**Prerequisite(s):** Not open to non-degree graduate students.

**PA 4560 INTERGOVERNMENTAL MANAGEMENT (3 credits)**

This course is for students wanting to improve their knowledge and understanding of intergovernmental relations as they impact policy and administration in the United States. (Cross-listed with PA 8566).

**PA 4590 TECHNIQUES TOPICS IN NONPROFIT MANAGEMENT (1-3 credits)**

A variable content course emphasizing nonprofit management techniques and topics. Topics include nonprofit leadership, board executive staff roles and relationships, personnel and volunteer management, financial management, proposal and grant writing community resources, special events planning and administration, needs assessments and legal ethical aspects. (Cross-listed with PA 8596).

**Prerequisite(s):** Permission of instructor. Not open to non-degree graduate students.

**PA 4820 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)**

Seminar on environmental law and regulations. Addresses federal regulations, implementing instructions, legal principles, and requirements. The major federal environmental laws, air and water quality, solid and hazardous waste, and pollution prevention and remediation are discussed. Usually offered Fall semesters.

**Prerequisite(s):** Junior-senior and permission.

**PA 4890 SPECIAL TOPICS PUBLIC ADMIN (3 credits)**

A course with the purpose of acquainting the student with key issues and topics of special concern to public and non-profit management that they otherwise would not receive elsewhere. (Cross-listed with PA 8896).

**PA 4900 SPECIAL TOPICS IN PUBLIC ADMINISTRATION (3 credits)**

A variable content course with public administration and urban studies topics selected in accordance with student and faculty interests. Possible topics include urban homesteading, administrative federalism and economic development and the public sector.

**Prerequisite(s):** PA 2170 and permission of instructor.

**PA 4950 INTERNSHIP (3 credits)**

A course designed to link theoretical concepts learned in the classroom to the practical application of "real world" situations and to familiarize students with attitudes, operations and programs of governmental units.

**Prerequisite(s):** PA 2170 and permission of the School.

**PA 4960 CROSS-SECTOR COLLABORATIVE LEADERSHIP CAPSTONE (3 credits)**

This is a capstone course that prepares students to be effective leaders in the 21st century. This course is the final leadership course in the Cross-Sector Collaborative Leadership minor. This minor requires a capstone project that encompasses the student's knowledge and training. It is designed to provide an applied service-learning opportunity for students. (Cross-listed with MGMT 4960).

**Prerequisite(s):** Must be completing either the Cross-Sector Collaborative Leadership Minor or the Cross-Sector Collaborative Leadership Concentration. Must have completed PA 3800/MGMT 3800. Not open to non-degree graduate students.

## Public Health & Behavior (PHHB)

### Public Health & Behavior Undergraduate Courses

**PHHB 1500 FOUNDATIONS IN PUBLIC HEALTH (3 credits)**

An introductory course for public health majors and other interested students, that examines the foundations of public health. The course includes an orientation to the process and the professions of public health and a consideration of current trends, problems and issues and their implications for public health professionals. The course will help candidates develop the knowledge, skills, competencies, and attitudes necessary to orchestrate an environment for positive public health.

**Distribution:** Social Science General Education course

**PHHB 2070 SUBSTANCE ABUSE AND MISUSE: PREVENTION AND MANAGEMENT (3 credits)**

An introduction to the effects and rationales of drug use, misuse, and abuse. Included are the physiological, psychological, sociological, pharmacological, and legal aspects of drugs in a culturally diverse United States and abroad.

**PHHB 2310 HEALTHFUL LIVING (3 credits)**

A study of selected health problems and issues in our society as related to knowledge, attitudes, and behaviors necessary for healthful living in a culturally diverse society.

**PHHB 2850 STRESS MANAGEMENT (3 credits)**

The health-related aspects of stress will be the focus of this course. Selected techniques for the self-regulation of stress will be demonstrated, practiced, and analyzed. Pressures from the culturally diverse United States and implications of a global society will be analyzed. Students will develop skills and competencies necessary to create a learning environment conducive to reducing stress.

**PHHB 3000 SPECIAL PROJECTS (1-3 credits)**

This course is designed to provide an opportunity to study a topic in public health through short course, seminar, workshop, or special project.

**Prerequisite(s):** The prerequisite for the special project will be determined by the instructor.

**PHHB 3030 FIRST AID (3 credits)**

Designed to give students knowledge and skill in implementing immediate, temporary treatment in case of injury or sudden illness before the services of a physician. Upon successful completion of the course, a student will receive a standard first aid and cardiopulmonary resuscitation certificate.

**PHHB 3060 PROMOTING POSITIVE HEALTH (3 credits)**

The focus of this team taught, experiential course will be assisting individual students: a) determine what wellness and mindfulness changes they wish to make in their lives; b) assisting them in acquiring the skills and learning about theories of how to effectuate change, and c) assisting them in making the change.

**Prerequisite(s):** HPER 3090/HEKI 3090, HPER 2850/HEKI 2850, and Holistic Health - Eastern Perspectives. At least two of the following: PEA 111T, PEA 112I, PEA 112U, or PEA 112V One additional PEA course (may not be from the previous category or basketball or volleyball)

**PHHB 3070 DEATH AND DYING (3 credits)**

An interdisciplinary survey of literature in the field of thanatology, with an emphasis on working with the older patient and his or her family. (Cross-listed with GERO 3070).

**PHHB 3080 HUMAN SEXUALITY (3 credits)**

An examination of factors influencing sexual development. Emphasis is given to topics pertinent to healthful living in today's culturally diverse, global society. (Cross-listed with WGST 3080).



**PHHB 3310 INJURY PREVENTION IN PUBLIC HEALTH (3 credits)**

This course is designed to explore public health strategies for the development and maintenance of safe physical environments with a focus on prevention of intentional and unintentional injuries. It explores a multitude of safety programs for school, business, recreation, transportation, and the home.

**PHHB 4000 METHODS AND MATERIALS IN HEALTH EDUCATION (3 credits)**

This course will provide an opportunity to study, develop and use different materials and equipment in public health. Various methods of teaching health will be practiced and evaluated. Candidates will be able to gain classroom and field experience (service-learning) in planning lessons and presentations.

**Prerequisite(s):** HED 1500 or PHHB 1500

**PHHB 4040 EPIDEMIOLOGY & PREVENTION OF DISEASE (3 credits)**

The course is designed for public health students and others who are interested in public health. The cause, prevention, treatment and control of prevalent communicable and non-communicable disease in a culturally diverse and global society will be emphasized. Special emphasis will be given to diseases and health problems that can be prevented or controlled through public health initiatives.

**Prerequisite(s):** HED 1500 or PHHB 1500

**PHHB 4050 INTRODUCTION TO RESEARCH IN PUBLIC HEALTH (3 credits)**

This course will assist students to develop the basic skills to read and evaluate applied research to address contemporary problems in public health. The course will provide an introduction to proposal writing, data collection, research design, statistical analysis, and computer application. Unique problems associated with data collection in public health settings such as public health departments, neighborhood health centers, and community based organizations will be addressed.

**PHHB 4060 SCHOOL HEALTH PROGRAMS (3 credits)**

The purpose of this course is to provide information and strategies for planning, implementing, and evaluating Coordinated School Health Programs (CSHP) for diverse cultural groups. Content includes an overview of school health programs, the essential functions of each of the eight components, the role of national and state organizations in working with local agencies and school districts in promoting the development of comprehensive school health programs.

**Prerequisite(s):** HED 1500 or PHHB 1500

**PHHB 4130 COMMUNITY HEALTH (3 credits)**

A survey course of community health issues. The basics of epidemiology/statistical sciences, environmental health, managerial/administrative sciences, and behavioral/social sciences for community health are examined. Public health candidates will gain skills needed to develop and manage community health programs.

**PHHB 4200 A PUBLIC HEALTH APPROACH TO MENTAL HEALTH (3 credits)**

This public health course will help students think critically about the prevention, identification, and treatment of mental illness in the United States. Students will be introduced to concepts from the disciplines of public health, psychology and sociology to understand mental health disorders and their impact on population health. Students will explore health disparities through the lens of cultural, social, behavioral, psychological, and economic factors. Students will recognize that mental health exists on a continuum and develop skills to address environmental influences on behavior. (Cross-listed with PHHB 8206).

**PHHB 4280 SOCIAL MARKETING FOR PUBLIC HEALTH (3 credits)**

This course will introduce students to current theory, practices and resources in the field of social marketing as it relates to public health. Students will analyze and implement social marketing techniques.

**Prerequisite(s):** HED 1500 or PHHB 1500

**PHHB 4400 HEALTH LITERACY (3 credits)**

This course is designed to provide students with the competencies to reduce problems associated with low health literacy. The two primary foci will be strategies to help patients and other health consumers improve their health literacy, and strategies to help health providers and health educators communicate in a manner that can be understood by all persons regardless of their health literacy

**PHHB 4420 PUBLIC HEALTH INFORMATICS (3 credits)**

Students will learn the implementation, operation, and application of health information systems. Students will explore the legal and ethical issues surrounding health informatics and patient records, management and communication in health informatics, and social and organizational issues pertaining to health informatics.

**Prerequisite(s):** HED 1500 or PHHB 1500

**PHHB 4550 HEALTH ASPECTS OF AGING (3 credits)**

This course emphasizes health promotion for older adults. Special health needs of older Americans are compared and contrasted with health needs for other age groups. Prevention or delaying of chronic diseases and disorders are emphasized. (Cross-listed with GERO 4550 and GERO 8556 and PHHB 8556 and WGST 4550).

**PHHB 4650 GLOBAL HEALTH (3 credits)**

This course will explore contemporary health problems around the world with particular emphasis being placed on problems experienced by developing countries. The political, economic, social, geographical, biological aspects of the problems and possible solutions will be addressed.

**Distribution:** Global Diversity General Education course

**PHHB 4700 WOMEN'S HEALTH AND ISSUES OF DIVERSITY (3 credits)**

This course provides a critical understanding of the inter-relationship between socio-cultural, economic, and political factors and women's physical and mental health. The aim is to provide an overview of the experience with the health care system. Emphasis will be on critically examining recent scholarship from a sociological, behavioral, health policy perspective. (Cross-listed with PHHB 8706, SOC 4700, SOC 8706).

**Distribution:** U.S. Diversity General Education course

**PHHB 4880 PUBLIC HEALTH POLICY (3 credits)**

This course provides an overview of the U.S. health system, and an introduction to the skills necessary to address health policy issues. Students will develop a working knowledge of health services terminology, recognize basic health care concepts, distinguish between various components of the health care delivery system and be able to apply concepts learned in the analysis of a public health problem.

**Prerequisite(s):** HED 1500 or PHHB 1500

**PHHB 4950 PUBLIC HEALTH LEADERSHIP AND ADVOCACY (3 credits)**

This course reviews public health leadership concepts and practices that prepare candidates to fulfill professional roles as advocates and leaders in the health field. Politics and power structure in communities and organizations are addressed. The processes through which changes in the political, economic, organizational, and physical environment related to health status and health behavior are brought about will be addressed. Media advocacy, the legislative process, community organization, and coalition development will be explored as means of environmental change.

**Prerequisite(s):** HED 1500 or PHHB 1500

**PHHB 4960 PUBLIC HEALTH - PLANNING AND ORGANIZATION (3 credits)**

The course is designed to provide public health students an understanding of planning and organization in public health. The use of planning tools including social assessment methods, epidemiological methods, behavioral methods, organizational methods, administrative methods and evaluation procedures for public health initiatives will be included. Grant writing components will be emphasized.

**Prerequisite(s):** HED 1500 or PHHB 1500



**PHHB 4970 PROBLEMS OF HEALTH EDUCATION (1-3 credits)**

This course is designed to provide an opportunity for individuals or groups to study problems in health education.

**Prerequisite(s):** Permission of instructor.

**PHHB 4990 INTERNSHIP IN PUBLIC HEALTH (3 credits)**

This internship provides on-the-job training for public health students in a cooperative program with state and local health departments or other appropriate community and public health agencies. Direct field experience is completed by the student under the supervision of an experienced practitioner in an approved public health agency.

**Prerequisite(s):** H&K majors only. Completion of or current enrollment in core courses, GPA of 2.5 or above in required courses, and no grade below a C in required courses, and permission by instructor. Must attend Info Session as scheduled by Instructor.

## Real Estate & Land Use Economics (RELU)

### Real Estate & Land Use Economics Undergraduate Courses

**RELU 2410 REAL ESTATE PRINCIPLES AND PRACTICES (3 credits)**

An introductory survey of real estate principles and practices which introduces the terminology, concepts and basic practices in the fields of real estate law, real estate finance, real estate appraisal, real estate property taxation and miscellaneous topic areas. Note: Students cannot receive credit for both RELU 2410 and RELU 3410. (Fall, Spring)

**RELU 2700 REAL PROPERTY RIGHTS AND OWNERSHIP: OVERCOMING BARRIERS (3 credits)**

Real estate is ubiquitous and the ownership of property - and accompanying property rights - have shaped US history and enabled millions to build wealth. At the same time, property ownership has eluded many, especially those from underrepresented groups. This class will expose students to historical and current barriers to property ownership, assess efforts to address these disparities, explore remedies, and give students the practical tools they'll need to plan for, and eventually acquire, their first home or other real estate.

**RELU 3410 REAL ESTATE PRINCIPLES AND PRACTICES (3 credits)**

This is a survey course in real estate principles and practices, which is designed to familiarize students with industry terminology, current practices, and cover the following topics: Licensure, property rights, legal descriptions, real estate law and contracts, appraisal, financing, investments, Fair Housing, and related topic areas. This course provides foundational knowledge of the real estate field and will prepare students to successfully complete more advanced real estate coursework. NOTE: Students cannot receive credit for both RELU 2410 and RELU 3410. (Cross-listed with BSAD 8605).

**RELU 3430 REAL ESTATE BROKERAGE AND SALES (3 credits)**

Overview of real estate brokerage and sales principles, to include buying and selling, leasing, brokerage business operations, contracts, closings, legal requirements, Fair Housing, advertising, and career opportunities.

**Prerequisite(s):** RELU 2410 or RELU 3410.

**RELU 3450 PROPERTY MANAGEMENT (3 credits)**

This course focuses on commercial and residential property management concepts and their application to the operation, control, and oversight of real property. The course will study leasing, tenant selection and relations, maintenance, marketing, contract management, asset management principles, as well as Fair Housing Laws and the Americans With Disabilities Act as they pertain to property management. (Cross-listed with BSAD 8625).

**Prerequisite(s):** RELU 2410 or RELU 3410.

**RELU 3460 REAL ESTATE LAW (3 credits)**

Upper-level survey course in real estate law, which examines estates in land, conveyances, leases, mortgages, easements, zoning, environmental law, contracts, taxes, foreclosures, landlord-tenant relations, agency, Fair Housing, and Nebraska License Law. (Cross-listed with LAWS 3460)

**Prerequisite(s):** RELU 2410 or RELU 3410.

**RELU 4390 REAL ESTATE INVESTMENTS (3 credits)**

This course focuses on methods used to analyze existing and proposed commercial and residential real estate investments through dynamic programming models, and explores strategies to finance commercial real estate. The class ultimately prepares students to understand the risks and rewards associated with financing and investing in real estate. (Cross-listed with BSAD 8616).

**Prerequisite(s):** RELU 2410 or RELU 3410 or FNBK 3250

**RELU 4400 RESIDENTIAL REAL ESTATE FINANCE (3 credits)**

This course focuses on the methods of financing residential real estate through the examination of various mortgage instruments, mortgage lenders, and the risks associated with leveraging real property. Industry terminology, concepts, best practices, and financial calculations are also presented, as are the influences of governmental policies on the industry. (Fall)

**Prerequisite(s):** RELU 2410 or RELU 3410

**RELU 4410 BASIC APPRAISAL PROCEDURES (3 credits)**

Fundamentals of real estate valuation and appraising; factors affecting value; valuing land, valuing improvements and the valuation of special classes of residential property; appraisal practice, depreciation and obsolescence, appraising rules, the mathematics of appraising; an appraisal of a single family residence is required.

**Prerequisite(s):** RELU 2410 or RELU 3410 AND FNBK 3250 with a C or better

**RELU 4420 INCOME PROPERTY APPRAISAL (3 credits)**

Introduction to the theory and concepts of income capitalization approaches, methods and techniques to valuation of real estate income property. Characteristics of yield on investment real estate; future income projections; mortgage coefficients; purchase and leaseback reversions; Ellwood Tables; capitalization rates and investment yields; types of annuities; and condemnation appraisal. (Spring)

**Prerequisite(s):** RELU 2410 or RELU 3410; and FNBK 3250

**RELU 4440 REAL ESTATE DEVELOPMENT (3 credits)**

This course focuses on the procedures and complexities in developing and redeveloping various commercial property types and mixed-use real estate. Topics include an overview of the real estate development process, assembling a team, identifying project stakeholders, financial analysis, site selection, market analysis, and the regulatory environment. (Cross-listed with BSAD 8626).

**Prerequisite(s):** RELU 2410 or RELU 3410 with a grade of B or above, and a cumulative GPA of 3.0 or better, or permission of Real Estate Program Director.

**RELU 4460 COMMERCIAL REAL ESTATE FINANCE (3 credits)**

A foundation course in commercial real estate finance including legal, analytical, institutional and governmental aspects.

**Prerequisite(s):** RELU 2410 and FNBK 3250

**RELU 4500 REAL ESTATE INDEPENDENT STUDY (1-3 credits)**

Individual investigation of specific issues or problems in real estate.

**Prerequisite(s):** Permission of Real Estate Program Director.

**RELU 4510 REAL ESTATE INTERNSHIP (1-3 credits)**

Students will engage in an applied experience in their area of specialization to gain relevant industry experience and to practice the skills and concepts learned in the classroom. Student reports on the internship experience and an employer's evaluation of the student's performance are course requirements. RELU 4510 may be taken for a maximum of 3 credits. (Fall, Spring, Summer)

**Prerequisite(s):** Permission of Department Internship Coordinator.

# Recreation-Leisure Study (RLS)

## Recreation-Leisure Study Undergraduate Courses

### RLS 2440 FOUNDATIONS OF RECREATION AND LEISURE (3 credits)

A survey approach to the recreation, leisure services, parks professional field to include the historical philosophical bases of the overall profession. Provides the necessary foundational knowledge for majors as well as candidates within other areas of study.

### RLS 2500 OUTDOOR RECREATION (3 credits)

A survey of the dynamics of outdoor recreation in American life. Designed to guide candidates through a learning experience that results in an introduction to and a broad-based understanding and appreciation of outdoor recreation.

### RLS 3100 SOCIAL ASPECTS OF SPORT AND LEISURE (3 credits)

A critical examination of the function and significance of sports within the overall leisure behavior patterns of Western society. Recreational sport, sport spectatorship, and competitive athletics are considered from the dominant theoretical perspectives within sociology.

**Prerequisite(s):** Six hours of social science or permission.

### RLS 3500 FOUNDATIONS OF RECREATION THERAPY (3 credits)

An introduction to therapeutic recreation services as a specialized field within recreation. Course content touches on the majority of the special populations recognized within American society. An in-depth survey approach is utilized.

### RLS 4070 CAMPUS RECREATION MANAGEMENT (3 credits)

A review of the knowledge, skills, and abilities required for the management of typical campus recreation programs and facilities. This course will prepare students for entry level positions managing campus recreation employees, programs, facilities and services. (Cross-listed with RLS 8076)

### RLS 4100 FACILITY DESIGN AND MANAGEMENT (3 credits)

This course is designed to acquaint the recreation major or practitioner with the knowledge and certifications necessary to maintain and operate a recreation building including all major activity areas using the latest standards and technology. Attention will be devoted to the design and management process, including terminology, court specifications, handicapped accessibility, and swimming pool operation.

### RLS 4240 RECREATION ADMINISTRATION (3 credits)

Designed to provide a background of information on public, private, and commercial recreation with special attention to organization, promotion, and development from the administrative aspect. (Cross-listed with RLS 8246)

**Prerequisite(s):** RLS Major and Senior status

### RLS 4300 RECREATION PROGRAMMING AND LEADERSHIP (3 credits)

An advanced study of recreational programming and leadership through practical applications. Emphasis is placed upon understanding proven programming and leadership knowledge and skills; understanding participant leisure behavior; understanding participant leisure needs; and skill development in ways through which organization, agencies and businesses create services to respond to the leisure needs of the consumer. (Cross-listed with RLS 8306)

**Prerequisite(s):** Junior, Senior or Graduate Standing

### RLS 4400 TRAVEL AND TOURISM (3 credits)

This course is designed to provide the recreation major or practitioner, and other interested candidates, with an awareness of the major components of the travel and tourism industry, including its costs and benefits to a resident community. (Cross-listed with RLS 8406)

**Prerequisite(s):** Junior Standing.

### RLS 4420 RECREATION FOR THE AGING (3 credits)

Role of leisure services as related to understanding and working with elders. Emphasis on recreation programming as a mode of intervention. Analysis and study of the phases of aging, with reference to psychomotor, affective, and cognitive changes; introduction to the theories of aging and how they relate to the lifestyle of this population; recreational therapy intervention, activity adaptation and program design; leisure education and issues and trends. (Cross-listed with RLS 8426, GERO 4420, GERO 8426)

### RLS 4550 PRACTICUM I (6 credits)

Practical learning experience in leisure service delivery under close University and agency supervision.

**Prerequisite(s):** Senior, 2.5 GPA and department consent.

### RLS 4560 PRACTICUM II (6 credits)

Practical learning experience in leisure service delivery under close University and agency supervision.

**Prerequisite(s):** Senior, 2.5 GPA and department consent.

### RLS 4970 PROBLEMS OF RECREATION (1-3 credits)

The purpose of this course is to provide an opportunity for candidates to participate in special conferences on problems in the field of recreation and to further professional improvement and growth beyond the normal four-year undergraduate program.

**Prerequisite(s):** Permission of instructor.

## Religion (RELI)

## Religion Undergraduate Courses

### RELI 1000 TOPICS IN RELIGION AND SPIRITUALITY (1 credit)

As a first year topics course, the main purpose is to introduce students to some aspect of the academic study of religion and spirituality. The specific topics will vary considerably; however, the objectives include training students in study methods generally and how to study religion as a scholarly subject in particular.

### RELI 1010 INTRODUCTION TO WORLD RELIGIONS (3 credits)

A introductory course in religious studies, designed both to introduce students to ways of understanding religion as a phenomenon in human culture and history and also to survey a wide variety of the religions of the world.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

### RELI 1050 FIRST YEAR SEMINAR IN RELIGION (3 credits)

The purpose of this course is to introduce students to a particular topic in the study of religion. Although the topic for this course will vary from semester to semester, students will be expected to read, to write, and to discuss the assigned texts and the ideas they contain. Students will learn basic skills in reading academic literature, writing about significant issues, and speaking articulately about the questions and issues. These skills will be helpful in other university and professional work.

### RELI 2000 ARCHAEOLOGY OF BIBLICAL LANDS (3 credits)

This course introduces students to the purpose and methods of biblical archaeology and includes a survey of the material culture of the land of the Bible from the Chalcolithic (5th - 4th millennia BCE) to the Persian periods (4th century BCE). Special emphasis will be placed on the relationship between biblical narratives and the archaeological reconstruction of ancient social and natural environments.

### RELI 2010 RELIGION AND CRITICAL THOUGHT (3 credits)

This class introduces students to critical approaches to the study of religion. Students are exposed to a variety of social scientific, scientific, philosophical, indigenous, and critical literary approaches to the study of wide-ranging religious beliefs and practices. The course is required for majors and recommended for minors in Religion as well as others with high interest in the field of Religious Studies.

**Prerequisite(s):** 3 hours in Religion or permission of instructor.

**RELI 2020 RELIGION AND HUMAN RIGHTS (3 credits)**

This course introduces students to the intersection of religion and human rights. It takes human rights as a moral tradition and asks how it impacts and is impacted by religious moral thought.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**RELI 2060 THE RELIGION OF ANCIENT EGYPT AND MESOPOTAMIA (3 credits)**

This course is designed to familiarize the student with the religions of ancient Egypt and Mesopotamia. The course will use archaeological discoveries together with ancient Egyptian and Mesopotamian texts to explore the religions of these two civilizations. It will deal with Mesopotamian and Egyptian beliefs surrounding issues such as creation, afterlife, ethics, morality and rituals.

**Prerequisite(s):** Intro to World Religion is recommended but not necessary.

**RELI 2120 HINDU SCRIPTURES (3 credits)**

An introduction to some of the foundational scriptures of Hinduism (Sanatana Dharma) from traditional and modern perspectives, including the Vedas, the Upanishads, and the Bhagavad-Gita.

**Prerequisite(s):** Not open to non-degree graduate students.

**RELI 2150 HEBREW SCRIPTURES (3 credits)**

A historical introduction to the study of the Hebrew Scriptures from the Biblical to Talmudic period in the light of recent scholarship.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**RELI 2160 NEW TESTAMENT: HISTORY, LITERATURE, AND SOCIETY (3 credits)**

Who were Jesus, Peter, Mary, and Paul in the Roman empire of the early first century? How did these Jews of the Second Temple Period become the earliest generation of a 2,000 year history of Christianity? How did early Christian understandings of God and humanity shape or constrain their interpretations of and responses to affliction, healing, and death, both conceptually and in practice? Finding answers to these questions requires students to study the literature of the New Testament and other early Christian literature, along with scholarly analyses of key issues related to authorship, dating, textual analysis, literary genres, historical contexts, and varying interpretations. The purpose of the course is to train students in the content of the texts as well as critical tools related to documentary analysis, archaeological methods, and various literary and social scientific approaches, interdisciplinary tools which also enhance one's skills in a variety of careers and professions.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**RELI 2170 QUR'AN (3 credits)**

This course provides an introduction to the academic study of the Qur'an, its uses, interpretations, and applications in society from its earliest appearance up to the present.

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**RELI 2190 THE MODERN MIDDLE EAST (3 credits)**

An interdisciplinary study of the social, religious, and historical dimensions of contemporary issues and events which make the Middle East cultural and geographic region a center of global tensions. After providing a background of how Islam spread in and unified the region, students will study factors which have shaped the Middle East from the late Ottoman period to the present, analyzing the principal sociocultural and political economic developments in the Middle East from the early 19th century to the early 21st century. (Cross-listed with HIST 2190, SOC 2190).

**Distribution:** Humanities and Fine Arts General Education course and Global Diversity General Education course

**RELI 2200 GLOBAL RELIGIOUS ETHICS: THE BASICS (3 credits)**

An introduction to the main types of ethical thought in religious traditions worldwide. The course will consider both historical and contemporary approaches and will relate ideas and practices of religious ethics to contemporary moral problems.

**RELI 2400 RELIGION IN AMERICA (3 credits)**

The role of religion in American culture, seen in the interaction between the inherited religious traditions and the crucial events in American experience and how this affects American identity - past and present.

**Prerequisite(s):** Sophomore or permission of instructor.

**RELI 2500 SPIRITUALITY AND WELLNESS (3 credits)**

This course provides an introduction to the emerging field of spirituality and wellness. Utilizing perspectives from multiple disciplines and incorporating both third-person (research, theory) and first-person (experiential, reflective) approaches, students will explore topics such as: the nature of spirituality; mindfulness, meditation and wellness; spirituality and public health; spiritual wellness on campuses; and ecospirituality.

**Prerequisite(s):** Not open to non-degree graduate students.

**RELI 2730 THE BLACK SPIRITUAL EXPERIENCE (3 credits)**

The Black Spiritual Experience course examines the trajectory of early African religions and philosophies, and their syncretization with European settler religions in America that have been practiced and embraced by Blacks in the U.S. since slavery. Students will survey the historical development of the Black church in America, and the emergence of liberation and Black theologies to combat white supremacy, oppression, and exploitation. This course will explore the cultural importance of music, dance, and art in worship and Black spiritual expressions; the role of religion and theology in empowering and uplifting African Americans, particularly during the Black Power and Civil Rights movements; the political impact of Black religious institutions in the long fight against systemic racism, racial violence, police brutality, and voter suppression in America; and the challenges of inclusion, equity, and intersectionality within the Black church around issues of gender, class, and sexual orientation. (Cross-listed with BLST 2730).

**Distribution:** U.S. Diversity General Education course

**RELI 3020 NATIVE AMERICAN RELIGIONS (3 credits)**

This course examines the life-ways, oral narratives, ceremonies, and philosophies of selected Native American tribal nations and communities from the major cultural regions of North America, utilizing historical, anthropological, and literary approaches. No single Native spiritual tradition or culture represents all Native North American beliefs and customs. Thus, attention will be given both to similarities among different tribal groups, and also the great diversity among the hundreds of indigenous ways of life on the North American continent, both ancient and modern. Particular topics addressed include the following: healing traditions and maintaining personal and communal balance, pilgrimages to sacred sites, and, critically, Native American creation stories inform the manner in which Native communities approach the natural world, including plants and animals as "other-than-human" persons.

**RELI 3030 SHAMANISM (3 credits)**

Study of the forms and techniques of shamanic experience from its Paleolithic and Neolithic origins to its contemporary practice among Indigenous peoples worldwide, including its role in the development of human religious traditions and systems of healing.

**RELI 3050 RELIGIONS OF THE EAST (3 credits)**

A study of the major religions that originate in South, Southeast, and East Asia, considering their origins, foundational doctrines, practices, beliefs, rituals and contemporary expressions. Included are the religions of Hinduism, Buddhism, Jainism, Sikhism, Daoism, Confucianism and Shintoism. Knowledge of the religious and spiritual traditions of South, Southeast, and East Asia will help students who intend to travel or work in those regions or who may have friends and colleagues from those regions of the world. A broad grasp of these critical cultural traditions will enhance international, cross-cultural understanding for any career or professional track.

**RELI 3060 RELIGIONS OF THE WEST (3 credits)**

The stories and histories, practices, communities, and interactions among Jews, Christians, and Muslims are part of a larger history of inter-religious encounters and development. In addition to learning about the ideas and scriptures, the ritual and ethical practices, and the forms of social organization of these religious communities, students will analyze how each one of these major religious traditions not only impacts each other, but also play significant roles in the emerging global community. With this additional perspective, students will be able to understand and discuss Judaism, Christianity, and Islam as dynamic forces historically and in the twenty-first century.

**RELI 3130 WOMEN AND THE BIBLE (3 credits)**

This course explores the characterization of women in Hebrew and Christian scriptures as well as what we can learn about the lives of women in the ancient world from these and other sources. Attention is also given to the reception and use of these texts in later historical periods including contemporary religious contexts. (Cross-listed with WGST 3120).

**RELI 3200 ISLAM AND MUSLIMS (3 credits)**

What do Muslims believe? How do they practice their faith? What role does Islam and what roles do Muslims play in the 21st century? This course provides an introduction to the history, beliefs, and practices of Islam and Muslim communities, including both Sunni and Shi'i traditions, Sufis and Salafis, from the time of Muhammad ibn Abdullah to the 21st century. Students will examine the ways in which we come to 'know' about Islam and how to approach mediated sources with a critical lens. Thus, in addition to highlighting the many important cultural, scientific, medical, artistic, and architectural contributions of Muslim societies throughout the past millennium, critical contemporary issues will also be addressed, including the role of women in Islam, the meaning of jihad, the legal traditions (shari'a and fiqh), the relationship between religion and politics in Islam, and issues of law, gender, myth, violence, colonialism, modernity, and Islamophobia.

**RELI 3330 ROMAN CATHOLIC THOUGHT AND PRACTICE (3 credits)**

What does the Roman Catholic Church teach today? What are the major official documents outlining the theological concerns of the Holy See since the time of Vatican II? How do Roman Catholics themselves think about the official teachings? This course is an investigation of developments and differences in Roman Catholic thought and practice over the past century. Students will examine prominent official statements (e.g., papal encyclicals and episcopal pronouncements) and commentary about different points of view. Special consideration will be given to the theological ethical bases in the tradition for various progressive and conservative theological trends. Students will analyze documents and issues and articulate their own perspectives both orally and in writing. Topics to be examined include both moral issues (e.g., ends of life decisions, poverty and justice, climate and human responsibility) and questions about the priesthood and the diaconate, interfaith dialogue, and inter-religious relations.

**RELI 3400 RELIGION AND FILM (3 credits)**

This course will examine the various ways in which religion and film connect, including the representations of religious groups in films, ways in which films replicate or alter religious concepts, and ways in which film as an aspect of popular culture functions analogously to religions in society. Methods used will include the analysis of film technique, auteur criticism, and audience reception analysis.

**Prerequisite(s):** Not open to non-degree graduate students.

**RELI 3500 TOPICS IN RELIGIOUS STUDIES (3 credits)**

The content of this course varies from semester to semester, giving instructor and students an opportunity to investigate various subjects of interest in religious studies. Typically, students will learn through reading, viewing, discussing, and writing about the topic under study. Some sections may include service learning and other forms of experiential learning. (May be repeated for credit as long as the topic is different, up to 18 hours of credit.)

**RELI 3960 READINGS IN RELIGION (1-6 credits)**

Individual research in selected areas or particular questions in religious studies, which are not covered in other courses. Typically, a student proposes a topic to an instructor, and they agree upon a list of readings (or other resources) to read, analyze, and evaluate, as well as expectations for writing papers and presenting ideas orally. Students are welcome to propose topics of study!

**Prerequisite(s):** Permission of instructor.

**RELI 4000 RELIGIOUS STUDIES INTERNSHIP (1-6 credits)**

A supervised internship enabling students to develop and apply knowledge and gain expertise related to the field of Religious Studies while working at a non-profit, educational, non-governmental or related organization.

The host organization for the student must be approved in advance in consultation with the internship coordinator and the Chair of Religious Studies. This course may be repeated for a maximum of six credit hours.

**Prerequisite(s):** Junior or senior. Religious Studies major or minor.

Permission of internship coordinator. Not open to non-degree graduate students.

**RELI 4010 SENIOR SEMINAR IN RELIGION (3 credits)**

This course provides a capstone experience in religious studies. It serves as the third writing course and is required for Religious Studies majors. The readings will deepen students' understanding of the field of Religious Studies and how it relates to social concerns, as well as guide students through developing a research project. Students will present research both in writing and verbally, in ways that address scholarship in Religious Studies and that are accessible to a general audience. Student will also have opportunities to reflect on experiential learning and career goals.

**Prerequisite(s):** Five courses in Religion, or permission of instructor.

**RELI 4020 BUDDHIST TRADITIONS (3 credits)**

This course is an exploration of Buddhist history, thought and practices. It begins with the origins, cultural context, and development of Buddhism in South Asia and then traces the path of Buddhism through Southeast Asia, Tibet, China, Korea, Japan and North America.

**Prerequisite(s):** Junior or permission of instructor.

**RELI 4030 AFRICANA RELIGIONS (3 credits)**

An introduction to religions in Africa and the diaspora, including African Traditional Religions, Christianity, Islam, and Afro-Caribbean religious traditions, using anthropological, historical, and other academic approaches to the study of religious and spiritual traditions. In particular, students will learn about the role of spirits, ancestors, witches, and other invisible agents in ideas and practices regarding health and healing. Finally, the class will examine the complex inter-relationships between religious ideas and practices and contemporary post-colonial political-economic realities, including the consequences of genocide and other human rights violations and the role of religious communities in social and economic development. (Cross-listed with RELI 8036, BLST 8036, BLST 4030).

**RELI 4050 RELIGION IN EARLY AMERICA (3 credits)**

This course examines the history and nature of religion in North America to c. 1770 with an emphasis on the British colonies. (Cross-listed with HIST 4010; HIST 8016).

**Prerequisite(s):** Junior or senior standing. Not open to non-degree graduate students.



**RELI 4060 FIRST NATIONS: SPIRIT IN ARTS AND CULTURES (3 credits)**

First Nations: Spirit in Arts and Cultures explores how contemporary Indigenous/Native (First Nations, Metis and Inuit) artists in the lands now known as Canada express their cultures, especially beliefs, through the fine arts. While we will focus on visual culture (sculpture, painting, film, mixed media), literary works (a novel, poetry) and music will also be included. First Nations, Metis and Inuit artists often simultaneously express traditions, their own experiences, and reflections on the present and past through their work. By doing this, they share valuable perspectives on health and healing as well as the national process of Truth and Reconciliation. Trying, so much as possible, to let the artists speak for themselves, we will explore how spirituality manifests itself in contemporary cultures for these Indigenous artists north of the border. (Cross-listed with RELI 8066, NAMS 4060, NAMS 8066).

**RELI 4150 JUDAISM IN THE MODERN AGE (3 credits)**

A study of Jewish communities and movements since the Enlightenment emphasizing historical, intellectual, religious-legal, and socio-cultural developments. Pivotal movements (e.g., Hassidism, Reform, Historical Conservative Judaism, Modern Orthodoxy, Zionism) and major historical events (e.g., the American and French Revolutions, Tsarist oppression, the Holocaust/Shoah and the establishment of the State of Israel) will be analyzed for their ongoing impact on Jewish thought, practice, and social organization. (Cross-listed with RELI 8156)

**Prerequisite(s):** Junior, three hours in religion, or permission of instructor.

**RELI 4160 THE HOLOCAUST (3 credits)**

An interdisciplinary approach in a seminar oriented format discussing various aspects of the most notorious genocide in modern times. The course will explore the history of anti-Semitism, the rise of Nazi Germany and the road to the 'final solution.' It will further explore psychological, sociological and intellectual aspects of the dark side of humanity. (Cross-listed with RELI 8166, HIST 4720, HIST 8726)

**Prerequisite(s):** Junior or instructor permission.

**RELI 4170 HISTORY OF CHRISTIANITY I (3 credits)**

The development of Christian theological, ritual, and social practice from the beginnings of Christianity through the Reformation. History of Christianity from its origins in the first century through the sixteenth century movements for reform. (Cross-listed with RELI 8176).

**RELI 4180 HISTORY OF CHRISTIANITY II (3 credits)**

This course will focus on the historical development of Christian ideas, practices, and institutions from the reformations of the sixteenth century CE through the early twenty-first century CE. In addition to the theological claims, students will examine the history of ritual practice and organizational development of the principal varieties of Christianity - Roman Catholic, Eastern Orthodox and other eastern churches, Protestant, and Pentecostal. (Cross-listed with RELI 8186).

**RELI 4200 COMPARATIVE RELIGIOUS ETHICS (3 credits)**

An introduction to historical and contemporary approaches to comparative religious ethics, with special focus on specific case studies as encountered in societies and religious communities across the globe. In addition to reading authors from a variety of perspectives (Aristotelians, natural law theorists, philosophers of law, pragmatists, theologians, and historians of religion), students will be introduced to special topics in the field, e.g., religion and public life, religion and law, syncretism, the secular/non-secular divide, etc. This course supports the Ethics and Values concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with RELI 8206, CACT 8206)

**RELI 4210 PUBLIC HEALTH, RELIGION, AND HUMAN RIGHTS (3 credits)**

This course examines the intersections among public health, religion, and human rights. It considers how human rights impact public health and vice versa; how human rights and religious thought impact each other; how religious communities approach issues of public health; and how religious thought and practice affects people's health. Topics include infectious diseases such as HIV and COVID-19; issues of stigma and discrimination in public health; social determinants of health such as poverty and environmental quality; and women's and LGBTQ+ health. Students will gain skills of textual analysis, dialogue, and argumentative reasoning in both written and verbal form. (Cross-listed with RELI 8216, CACT 8216)

**Prerequisite(s):** Prerequisites: junior standing OR prior completion of either RELI 1010 or MEDH 1000.

**RELI 4220 VIOLENT CONFLICTS, PEACEBUILDING, AND THE ETHICS OF INTERVENTION (3 credits)**

This course is designed to familiarize the student with the nature of violent conflict, including terrorism, and a variety of the mechanisms for peacebuilding. The course will also explore human rights and the ethics of intervention. This course supports the Ethics and Values concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with RELI 8226, CACT 8226)

**RELI 4250 WAR, RELIGION, AND HUMAN RIGHTS (3 credits)**

What is the connection between human rights, religion, conflict, and peacebuilding? Does religion cause war or help to stop it? How can human rights violations be prevented or stopped, and can religious actors be engaged in this work? Is the use of force ever appropriate to protect human rights? This course engages all of these questions by examining the ethical thought of multiple religious traditions; the work of human rights organizations; the just war tradition; and questions about sovereignty, peacebuilding, and the use of force worldwide. It includes discussion of historical issues and contemporary case studies. (Cross-listed with RELI 8256).

**RELI 4260 THE END OF THE WORLD: RELIGION AND APOCALYPSE (3 credits)**

This course introduces students to sacred texts and their interpretation by "end of the world" groups across world history. Several ancient, medieval, and contemporary groups are discussed. Special attention is paid to the connections between apocalyptic and political movements, as well as religion and violence. (Cross-listed with RELI 8266).

**RELI 4400 WOMEN IN ISLAM (3 credits)**

This course examines the religious, political and cultural assignments ascribed to Muslim women. Starting with the Qur'an, social, legal, and scriptural norms will be explored through the voices of Muslim women around the world. Passages of the Qur'an, hadiths and the commentaries that lead to the elevation and/ or demise of Muslim women and their rights are studied. Examining the role of the female body, sexuality and seclusion within a historical context will lead to an understanding of the gendering of women in Islam. (Cross-listed with RELI 8406)

**Prerequisite(s):** RELI 3200

**RELI 4420 MUSLIMS IN AMERICA (3 credits)**

This course is designed to familiarize the student with the multiplicity of Muslim voices in the United States and to examine the myths created through stereotyping and orienting. The course will also investigate how Muslims in America form identities as hybrids and transnationals and follows the chronological development of American Muslims including their identity construction, religious issues, and politics. (Cross-listed with RELI 8426)

**Prerequisite(s):** RELI 3200 or permission.



**RELI 4450 HOLY TERROR: RELIGION AND HORROR (3 credits)**

Examining the genre of horror in books, films, and television, students will explore the ways in which horror in its many forms illuminates upon an array of religious ideas. Some of the major subjects and themes examined in this class include: various cultural interpretations of sleep paralysis, the fear of death and dying badly, Hell and Satan, nature horror, body horror, and the breakdown of the established order of reality and its replacement with one that is alien and hostile to it. In addition to these themes, we will also explore horror in Native American and Eastern social and cultural contexts. Emphasis is placed on the genre's ability to portray complex religious, philosophical, sociological, and anthropological subject matter. (Cross-listed with RELI 8456).

**RELI 4500 ANCIENT ISRAEL (3 credits)**

Who were the Israelites? Where did they come from? This is one of the most debated topics in biblical studies. This course examines biblical texts, historical documents, archaeological discoveries, and sociological studies.

**RELI 4520 JESUS AND ARCHAEOLOGY (3 credits)**

Jesus and Archaeology is a course surveying the material culture of Judea and Galilee in the time of Jesus. Studying materials is a new approach to the long study of the Historical Jesus Quest. By providing a large amount of archaeological data, this method contributes a critical mass on old debated questions such as the society in Judea and Galilee, rural versus urban, Hellenism versus Judaism, size, population and language of Galilee in the time of Jesus and much more. (Cross-listed with RELI 8526).

**RELI 4550 JESUS IN FILM (3 credits)**

This course is a study of how the life of Jesus of Nazareth has been portrayed in cinema over the past century. Emphasis will be placed upon the ways in which the biblical sources are adapted for films, how Jesus films reflected and influenced the values and beliefs of the times in which they were made, and the reception by audiences of the diverse film representations of Jesus. (Cross-listed with RELI 8556).

**RELI 4600 WOMEN AND RELIGION (3 credits)**

This course on women and religion will focus on the intersections of power and oppression that women experience in four of the major world religions - Judaism, Christianity, Buddhism, and Islam. Students will examine the historical, cultural and religious contexts that highlight women's involvement or exclusion from activity and power within each religion. Students will research case studies from around the world to examine tensions within and between religious and secular societies through the lens of gender. (Cross-listed with RELI 8606).

**RELI 4700 RELIGION, FILM, AND VIOLENCE (3 credits)**

A study of the ways in which films represent violence and how these representations intersect with religious concepts. Topics will include how films express the justification or "sanctification" of violence as legitimate, redemptive violence, notions of sacrifice, and the nonviolent critique of violence. We will examine a variety of genres including action films, crime stories, horror, and religious films, noting their societal influence and how they express diverse values regarding violence and its legitimization. (Cross-listed with RELI 8756).

**RELI 4830 ANCIENT GREEK MYTH, RELIGION & MAGIC (3 credits)**

Students will examine the impact of ancient Greek myth and belief on actual religious practice: e.g., "lived" religion. Areas covered include formal civic sacrifice, wartime religion, family and personal devotions, mystery cults, oracles and seers, plus the popular pursuit of magic. (Cross-listed with HIST 8836, HIST 4830, RELI 8836).

**RELI 4850 ROME AND THE EARLY CHURCH (3 credits)**

Students will cover Roman-Christian-Jewish interactions from just before the birth of Jesus of Nazareth to c. 450 CE, with an emphasis on social and political history. We catalogue Christianity's transformation from its origins as a Jewish movement and an illegal "superstition" to the dominant religion of the Roman empire. (Cross-listed with HIST 8856, HIST 4850, RELI 8856).

**Prerequisite(s):** Junior standing.

## Science, Tech, Engr, and Math (STEM)

### Science, Technology, Engineering, and Mathematics Undergraduate Courses

**STEM 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING (3 credits)**

This course embraces the visual arts to introduce students to the foundational elements of mathematical and computational thinking. Visual patterns form the basis for explorations in arithmetic and geometric sequences, from which algebraic functions and corresponding functions in computer programs are reasoned.

**Distribution:** Math

**STEM 2800 SCIENCE EXPERIMENTATION AND ENGINEERING DESIGN (4 credits)**

Scientific Experimentation & Engineering Design (SEED) is a general education science course that introduces integrative STEM (Science, Technology, Engineering, and Mathematics) concepts and their applications. The course fosters 21st Century Learning through study and work in active, team-based experiential learning environments through all phases of near-space experiments using high-altitude balloon platforms. Near-space experiments require research question development, experiment hardware fabrication, experiment software integration, payload launch and recovery, data analysis, and formal experiments' results reporting. Science and Engineering Practices are central to students' experiences and work in this course, as the course models the interdisciplinary connectedness of academic fields, industry, and the community to encourage collaboration and discovery to effectively implement STEM concepts, practices, and innovation. (Cross-listed with TED 2800).

**Distribution:** Natural/Physical Sci General Education lecture&lab

## Social Sciences (SSCI)

### Social Sciences Undergraduate Courses

**SSCI 2000 SOCIAL SCIENCE ISSUES I (3-5 credits)**

An interdisciplinary course which explores the nature and scope of social science, and seeks an integrated understanding of selected social science topics within the context of contemporary issues. Course topics will vary, but will typically include a multidisciplinary approach.

**SSCI 4900 GLOBAL CAREER INTERNSHIP (3-6 credits)**

This internship is specifically designed for students participating in UNO's Global Career Accelerator Program. Students will be paired with UNO's Global Career Accelerator corporate partners to gain experience in high-demand careers such as web development, digital marketing, data analytics, coding for data, or web analytics/social media.

**Prerequisite(s):** Participation in the Global Career Acceleration Program or permission of director.

# Social Work (SOWK)

## Social Work Undergraduate Courses

### **SOWK 1000 SOCIAL WORK AND SOCIAL WELFARE (3 credits)**

This course is designed for the student who wants to learn about social welfare and to explore a possible major in social work. The student examines historical and current issues in social welfare, social services, and the social work profession. The course focuses on values, beliefs, and goals of social services and social work, and provides a historical perspective for present activities.

**Distribution:** Social Science General Education course and U.S. Diversity General Education course

### **SOWK 1500 SOCIAL WORK AND CIVIC ENGAGEMENT (3 credits)**

This course is designed to acquaint the student with the social work profession, professional roles and functions, and social services delivery systems. Students will have an opportunity to observe and participate in social services activities within Nebraska and Iowa communities incorporated with didactic experiences. Students will also have an opportunity to explore their vocational aptitude for social work practice via interactive encounters with clients and helping professionals.

**Prerequisite(s):** Not open to non-degree graduate students.

### **SOWK 2120 RACE, CLASS AND GENDER IN THE UNITED STATES (3 credits)**

This course examines the effects of race, class, and gender on social policy and social injustice. The focus is on how institutional oppression of racism, classism, and sexism are interconnected and are mutually reinforcing. The consequences of institutionalized oppression are examined at the individual, family, group, organization, community, and societal levels.

**Distribution:** U.S. Diversity General Education course

### **SOWK 3000 APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (3 credits)**

A course on the use of data and statistical methods to explore and make inferences about society, while critically considering the influence of context and the powers and limitations of quantitative evidence. (Cross-listed with CRCJ 3000, PA 3000).

**Prerequisite(s):** MATH 1120 or MATH 1130 or MATH 1220 or MATH 1300 or MATH 1320 or an ACT of 19, or above or permission from the department.

### **SOWK 3010 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (3 credits)**

This course is the first part of a two-semester sequence within the MSW required curriculum. It focuses on major contributions of theories from the biological, social, and behavioral sciences that help to understand human functioning across the lifespan, within the social environment at the micro- and macro-level (e.g., individuals, families, groups, organizations, institutions, and communities), as they relate to effective social work generalist practice.

**Prerequisite(s):** Admission to BSSW Program. Not open to non-degree graduate students.

### **SOWK 3020 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (3 credits)**

This course is the second part of a two-semester sequence within the BSSW required curriculum. It focuses on major contributions of theories from the biological, social, and behavioral sciences that help to understand human functioning across the lifespan, emphasizing functioning at the mezzo and macro levels of practice. This class is designed to build upon the theories of lifespan development presented in the initial course of the sequence.

**Prerequisite(s):** SOWK 3010, SOWK 3320, SOWK 3890. Not open to non-degree graduate students.

### **SOWK 3110 SOCIAL WELFARE POLICY (3 credits)**

This course is an introduction to social welfare policy analysis. It informs the BSSW student about the history of professional social work, the development of social services in the United States, and the values, beliefs, ethics and social welfare theories that frame professional policy practice. The course examines U.S. social welfare policy, taking into account historical social, racial, cultural, economic, organizational, environmental, and global influences that affect social policy.

**Prerequisite(s):** SOWK 3010, SOWK 3320, SOWK 3890. Not open to non-degree graduate students.

### **SOWK 3320 GENERALIST PRACTICE WITH INDIVIDUALS AND FAMILIES (3 credits)**

This course introduces students to the values, ethics, knowledge, and skills of generalist social work practice. Using constructs from the Generalist Intervention Model, systems theory, and the strengths-based perspective, students learn about engagement, assessment, planning and contracting, intervention, evaluation, and termination. Diversity and case management are emphasized as part of bringing planned change to client systems, including individuals, families, and groups.

**Prerequisite(s):** Admission to BSSW Program. Not open to non-degree graduate students.

### **SOWK 3350 GENERALIST PRACTICE WITH GROUPS, ORGANIZATIONS, AND COMMUNITIES (3 credits)**

This course reinforces the values, ethics, knowledge, and skills of generalist social work practice with groups. Students gain specific knowledge and skills in group assessment, intervention, and termination. Students will learn about the process of group development and facilitation. This course looks at the various types of groups social workers may facilitate.

**Prerequisite(s):** SOWK 3010, SOWK 3320, SOWK 3890. Not open to non-degree graduate students.

### **SOWK 3890 WRITING FOR SOCIAL WORK (3 credits)**

This course emphasizes the process of critical thinking and analysis and the process of effective professional writing as required for generalist social work practice. Students will apply selected generalist social work concepts to prepare writing samples such as research/term papers, client progress/psychosocial reports, analytical reviews, professional development papers, business communications, and grant proposals. Research and writing skills emphasized are: conducting electronic literature searches, outlining, paragraph and sentence structure, revising, using APA format, and proofreading for correct grammar, word usage, and punctuation.

**Prerequisite(s):** Admission to BSSW Program. Not open to non-degree graduate students.

### **SOWK 4010 SOCIAL WORK WITH AMERICAN INDIANS (3 credits)**

This course provides the student with a broad study of the historical origins, influences and issues of American Indians in relation to social work practice. The application of generalist social work methods are explored, including anti-racism, diversity, equity, and inclusion (ADEI) framework. The student will learn and understand the political identities of American Indians, which are unique to this population. Methods of intervention applicable to American Indian populations and communities are reviewed, giving special attention to practice across the lifespan. (Cross-listed with SOWK 8016).

**Prerequisite(s):** Admission to the BSSW Program. Not open to non-degree graduate students.

### **SOWK 4020 SOCIAL WORK WITH BLACK FAMILIES (3 credits)**

This course seeks to develop in students an awareness and understanding of some of the social and psychological/cognitive realities influencing the behavior of African American youth and families across the lifespan. The content draws upon theories, research and social work practice skills relevant to African American youth and families, as well as the cognitive process and social systems which impact African youth and families. (Cross-listed with SOWK 8026)

**Prerequisite(s):** Admission to the BSSW program

**SOWK 4030 SOCIAL WORK WITH LATINOS (3 credits)**

The purpose of this course is to study and analyze cross-cultural social work practice with Latino populations. Students will learn what factors impact Latino communities and what skill sets are essential for diverse social work practice. (Cross-listed with SOWK 8036).

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4040 WORKING WITH MINORITY ELDERLY (3 credits)**

This course is designed to provide the student with knowledge of the differing status, attitudes, and experiences of older adults who identify as members of minority groups in the U.S. This course examines various social policies, service systems, and practice models in terms of their relevance and effectiveness in meeting the needs of an increasing and diverse aging population. (Cross-listed with GERO 4690, GERO 8696, SOWK 8046).

**Prerequisite(s):** Admitted to the BSSW program or [SOWK 1000, junior or senior standing, and permission of the School

**SOWK 4050 ETHNIC DIVERSITY AND SOCIAL WORK PRACTICE (3 credits)**

This course focuses on effective social work practice with ethnic diversity. Students critically examine different theoretical frameworks to understand ethnic diversity. Current major ethnic groups in American society are explored regarding demographics, history, worldviews, cultural traditions, and social welfare. The goal is to deepen student's basic knowledge, skills, and values of ethnic diversity in relation to family structure, gender roles, care giving, and help-seeking behaviors. In addition, attention is given to immigrants, refugees, and persons who identify as multi-ethnic. (Cross-listed with SOWK 8056)

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4060 MEDICAL SOCIAL WORK (3 credits)**

This course is an introduction to medical social work. BSSW and MSW students will focus on the knowledge base and practice skills needed to assess the holistic care of patients and their families. This course prepares students to 1) understand healthcare disparities and needs of individuals and their family, 2) apply theory and models of patient-centered care delivery, 3) develop skills for working on interprofessional teams, 4) formulate ideas for addressing barriers and improving health care access. (Cross-listed with SOWK 8066).

**Prerequisite(s):** SOWK 3320 prior to or concurrent

**SOWK 4360 APPLIED SOCIAL WORK PRACTICE: CASE MANAGEMENT, RESOURCES, AND INTERVENTION (3 credits)**

This course is an introduction to a goal-oriented planned change process with an emphasis on task groups, organizations, and communities.

**Prerequisite(s):** SOWK 3320, SOWK 3110, SOWK 3020

**SOWK 4400 RESEARCH METHODS IN SOCIAL WORK PRACTICE (3 credits)**

The focus of the course will be to define research methods as they are applied in social work, using ethical, culturally informed, anti-racist, and anti-oppressive approaches. Students will use research to inform their practice decision-making. Values and ethical issues are infused throughout the content of the course as they relate to research processes and methods.

**Prerequisite(s):** Prior or concurrent STAT 1530, CRCJ 3000, PA 3000, PSYC 3130, SOWK 3000, or STAT 3000

**SOWK 4410 GENERALIST SOCIAL WORK FIELD PRACTICUM I (5-6 credits)**

This course is designed to provide supervised, individual, and experiential learning offered within the setting of a selected social service agency. The student is introduced to a variety of social work practice roles, develop professional relationships with client systems and learn to apply different interventions to effect change across the life span. In order to facilitate integration of classroom theory with practice, students will attend a seven-week field practicum lab/seminar (2 hours every other week in spring/fall; every week in summer).

**Prerequisite(s):** SOWK 4360 prior or concurrent

**SOWK 4420 GENERALIST SOCIAL WORK FIELD PRACTICUM II (5-6 credits)**

This course is designed to provide supervised, individual, and experiential learning offered within the setting of a social service agency, typically the same agency as in SOWK 4410. This course builds upon opportunities provided and competence achieved in Generalist Social Work Practicum I.

**Prerequisite(s):** SOWK 4410 prior or concurrent

**SOWK 4450 SOCIAL WORK CAREER PREP (1 credit)**

This course is an integrative senior seminar designed to be taken concurrently with practicum. This course facilitates the transition from BSSW student to professional social worker. To achieve this, students will reflect on the following: how to prepare for a job interview, personal financial planning, continuing education, licensure, and social work competencies.

**Prerequisite(s):** SOWK 4410 prior or concurrent

**SOWK 4510 TREATMENT ISSUES IN CHEMICAL DEPENDENCY (3 credits)**

This course addresses chemical dependency treatment issues including denial, minimization, relapse and its prevention, resistance, family dynamics, poly-substance abuse, co-occurring disorders, spirituality and the influence of self-help groups. The education will include the clinical treatment needs of individuals suffering from chemical dependency, taking into consideration diversity, gender, culture and lifestyle. (Cross-listed with COUN 4510, COUN 8516, SOWK 8516).

**Prerequisite(s):** Admission to counseling program or social work programs or permission of instructor. Not open to non-degree graduate students.

**SOWK 4530 SCHOOL SOCIAL WORK (3 credits)**

This course explores the field of social work practice in school settings. Major topics include: history of social work practice in schools; the school environment; roles of school social workers; mandated foundations for school social work services; eligibility for special education and 504 plans; theories of practice that include school and community based models; and interventions for target populations in schools. (Cross-listed with SOWK 8536).

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4620 TRAUMA AND RESILIENCE (3 credits)**

This course provides an overview of issues related to trauma including: the factors related to development of trauma, definitions of trauma, the impact of trauma on individuals, families and communities, and the programs and practices that are most effective and appropriate regarding the social work role in responding to trauma. (Cross-listed with SOWK 8626)

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4640 PERMANENCE FOR CHILDREN (3 credits)**

This course examines the history, challenges, and issues of governmental intervention in families to protect at-risk children. The course concentrates on the effects of social policies, like the 1980 federal legislation (PL 96-272) on child welfare delivery systems and practices. It provides a comprehensive overview of child welfare services, including child protective services, in-home services, foster care, group care, intergenerational childcare, and adoption. It also provides an overview of the juvenile justice system and its impact on children and their families. (Cross-listed with SOWK 8646).

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4650 SOCIAL WORK IN MENTAL HEALTH (3 credits)**

This is an undergraduate introductory social work course on mental health. The aim of the course is to acquire basic knowledge and skills for effective and culturally appropriate interventions. Students examine the history of psychiatric care to inform a social work perspective on mental health/illness, human rights, social justice, stigma, ethical/legal issues, and a continuum of care for families, communities, and service providers. Mental health/illness is taught from a distinct social work perspective using historical-critical analysis and case studies.

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4660 SOCIAL WORK WITH INDIVIDUALS WITH DISABILITIES (3 credits)**

This is an introductory course to explore contemporary social work practices pertaining to the experiences of individuals with intellectual and developmental disability (I/DD) across the lifespan. Law and policy trends will be examined through the lens of disability rights, advocacy, and ethics. The course will assess the impact of intersectionality and diversity on the health and well-being of individuals with I/DD.

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4680 MEDICAL AND PSYCHOSOCIAL ASPECTS OF SUBSTANCE USE DISORDERS (3 credits)**

This course introduces students to substance use disorders and their impact on the individual, family, and society. It covers psychopharmacology, alcohol and drug interactions, drug classifications, theories of substance use disorders, various models of treatment, vulnerable populations, and ethical and legal issues. (Cross-listed with SOWK 8686, COUN 4680, COUN 8686).

**SOWK 4690 ASSESSMENT AND CASE MANAGEMENT IN SUBSTANCE USE DISORDERS (3 credits)**

This course focuses on assessment of clients and their environment, and diagnosis and referral for substance use disorder treatment. Emphasis is given to assessment instruments, treatment levels, treatment planning, case management, and social justice. (Cross-listed with COUN 4690, COUN 8696, SOWK 8696).

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4800 SOCIAL WORK AND THE LAW (3 credits)**

This course presents the fundamental principles of criminal and civil law that have relevance to the practice of social work. Topics include the legal system; legal research methods; professional ethical/legal responsibilities and liabilities; family law; elder law; criminal law; juvenile law; personal injury law; employment discrimination law; capacity to make contracts and wills; rights of institutionalized patients; and rights of children with disabilities to an education. (Cross-listed with SOWK 8806).

**Prerequisite(s):** Admission to BSSW Program

**SOWK 4810 SPIRITUALITY AND SOCIAL WORK PRACTICE (3 credits)**

This course examines major issues and basic concepts pertaining to spirituality and social work practice. This course applies critical thinking to deepen understanding of spirituality in relation to clients of diverse religious and secular perspectives. The goal is to develop students' professional use of self and spirituality as the human striving for meaning, purpose, and wellbeing. Classroom time is organized around lectures, field trips, and reflective assignments. (Cross-listed with SOWK 8816)

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4820 GLOBAL ENGAGEMENT: A SOCIAL WORK PERSPECTIVE (3 credits)**

This course prepares students to work in a global setting. Students examine theories, concepts, and skills related to social development, cross-cultural engagement, and issues related to particular countries. The course is designed with two elements: 1) On-campus classroom learning focused on global social work knowledge, and, 2) Field-based labs that involve direct engagement with an international population. Students select one lab: i) faculty-led trip to China for two-weeks, ii) refugee resettlement service-learning project in Omaha. (Cross-listed with SOWK 8826).

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4830 CRISIS INTERVENTION (3 credits)**

Students will study Robert's 7-Stage Model of Crisis Intervention and how to ethically practice with diverse and vulnerable populations. Students will apply crisis intervention theory and models of intervention to various concern areas including but not limited to suicide, sexual assault, domestic violence, substance abuse, grief and loss, and violence. A systems, strengths, and cultural emphasis will be applied to the various crisis situations covered. (Cross-listed with SOWK 8836)

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4850 HOSPICE & OTHER SERVICES FOR THE DYING PATIENT/FAMILY (3 credits)**

This course examines the hospice concept and other related services available in the community. The student will learn that hospice is an alternative to the traditional medical model. (Cross-listed with GERO 4850, GERO 8856, SOWK 8856.)

**Prerequisite(s):** Admission to BSSW or permission of the school

**SOWK 4880 TOPICAL SEMINAR IN SOCIAL WORK (3 credits)**

Specific seminar topics will focus on advanced content in social work theory and practice. The course description will be announced when a specific topical seminar is proposed. The topics selected will be consistent with the Grace Abbott School of Social Work program objectives, faculty expertise, and student needs. (Cross-listed with SOWK 8886)

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4890 SPECIAL STUDIES IN SOCIAL WORK (1-4 credits)**

This independent study course allows students to pursue a special selected area or topic within social welfare in order to deepen knowledge and/or skills in that particular area.

**Prerequisite(s):** Admission to the BSSW Program

**SOWK 4980 SENIOR HONORS PROJECT/THESIS (3-6 credits)**

An independent research project supervised by an approved faculty member. The senior honors project must be approved by the CPACS Honors Coordinator.

**Prerequisite(s):** Senior in Honors Program and permission of the School.

## Sociology (SOC)

### Sociology Undergraduate Courses

**SOC 1010 INTRODUCTORY SOCIOLOGY (3 credits)**

An introduction to the study of human societies. The course presents the fundamental concepts and theories that make up the sociological perspective. These serve as tools for the analysis of social inequality, social institutions and social change.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**SOC 2100 SOCIAL PROBLEMS (3 credits)**

An analysis of the origins of social problems in American society. Attention is given to the nature, consequences and solutions of selected social problems.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**SOC 2120 SOCIOLOGICAL THEORY (3 credits)**

SOC 2120 is an intellectual history of sociology as an academic discipline surveying outstanding contributions to its body of theory. The social contexts in which a variety of classical and contemporary theoretical traditions have arisen will be considered. Stress is placed on understanding and applying different approaches to sociological analysis through detailed textual interpretation of theoretical writings.

**Prerequisite(s):** SOC 1010 and Sociology major or permission of instructor. Not open to non-degree graduate students.

**SOC 2130 SOCIAL STATISTICS (3 credits)**

An introduction to the fundamental statistical techniques used in the analysis of social data, including descriptive and inferential statistics. The focus is on the production and interpretation of statistical information in the study of social life.

**Prerequisite(s):** MATH 1120, MATH 1130, MATH 1220, MATH 1310, or MATH 1530 or permission of instructor.



**SOC 2134 SOCIAL STATISTICS LAB (1 credit)**

A computer-based laboratory course to be taken in conjunction with SOC 2130. The focus is on using computer software to produce and interpret statistical information in the study of social life.

**Prerequisite(s):** MATH 1120, MATH 1130, MATH 1220, MATH 1310, or MATH 1530 and SOC 2130 (taken previously or concurrently) or permission of instructor. Not open to non-degree graduate students.

**SOC 2150 SOCIOLOGY OF FAMILIES (3 credits)**

This course provides a description and analysis of contemporary families from a sociological perspective. A life course perspective traces the development of family life, with special attention to change, choice, and diversity. Topics such as family structure, the functions of the family as an institution, family comparisons across culture and time, and difficulties faced by families in contemporary society will also be explored.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course and U.S. Diversity General Education course

**SOC 2190 THE MODERN MIDDLE EAST (3 credits)**

An interdisciplinary study of the social, religious, and historical dimensions of contemporary issues and events which make the Middle East cultural and geographic region a center of global tensions. After providing a background of how Islam spread in and unified the region, students will study factors which have shaped the Middle East from the late Ottoman period to the present, analyzing the principal sociocultural and political economic developments in the Middle East from the early 19th century to the early 21st century. (Cross-listed with RELI 2190, HIST 2190).

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**SOC 2300 SPORT & SOCIETY (3 credits)**

This course provides a sociological examination of the contemporary sports world and the ways that the institution of sport both reflects and shapes society. The importance of sports to culture and socialization, the interaction between sports and other social institutions, and the unique role that sports plays in both perpetuating and contesting inequalities of race, gender, class, identity, and ability will be explored.

**Distribution:** Social Science General Education course

**SOC 2400 SOCIOLOGY ON FILM (3 credits)**

This course applies the sociological perspective to feature and documentary movies to critically explore social issues presented on film. Students will develop their sociological imaginations as they are introduced to essential sociological concepts such as culture, society, the social construction of reality, socialization, power and inequality, social institutions, and social problems as depicted in classic, contemporary, and foreign film. As social issues are serious and often controversial, the films examined may also be controversial and contain mature themes.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course

**SOC 2800 MAJOR SOCIAL ISSUES (3 credits)**

The course examines a major social issue from a sociological perspective with content and materials designed for non-majors. The topics will vary from semester to semester, so the course can be taken more than once.

**SOC 3300 SOCIOLOGY OF GENDER (3 credits)**

This course critically examines the meaning, purpose, and consequences of gender, by using sociological methods and theories to explore the institutions that structure gender relationships and identities, and form the contexts that shape social life in the United States. Particular attention will be given to how social institutions like the state, the economy, family and the mass media shape the definitions of femininity and masculinity, as well as how the gender system intersects with other structures of inequality - race, class, and sexual orientation.

**Prerequisite(s):** SOC 1010 and sophomore standing; or permission of instructor. Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**SOC 3450 SOCIAL PSYCHOLOGY (3 credits)**

Social interaction studied in situations of (1) social influences on individuals, (2) dyads or face-to-face groups, and (3) larger social systems. The concepts, theories, data, research methods and applications of varied substantive topics are examined. (Cross-listed with PSYC 3450).

**Prerequisite(s):** SOC 1010 or PSYC 1010

**SOC 3510 RESEARCH METHODS (3 credits)**

This course is a basic introduction to the principles, methods and techniques of empirical social research. The common methods used by sociologists and anthropologists are addressed such as surveys, interviews, and observation.

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor

**SOC 3514 RESEARCH METHODS LAB (1 credit)**

This is a laboratory course to be taken in conjunction with SOC 3510.

The focus is on applying methodology and basic data analysis learned in SOC 3510 and the development of a sociological research proposal.

**Prerequisite(s):** SOC 1010, junior standing, and SOC 3510 (taken previously or concurrently); or permission of instructor.

**SOC 3610 APPLIED ORGANIZATIONAL SOCIOLOGY (3 credits)**

A foundational applied organizational sociology course that focuses on the understanding, analysis, and applications of basic knowledge of organizational structures and systems for solving organizational problems, enhancing organizational performance, and preparing students for leadership roles in organizations.

**Prerequisite(s):** SOC 1010 and sophomore standing; or permission of instructor.

**SOC 3690 SOCIAL INEQUALITY (3 credits)**

Considers social inequality from a sociological vantage point, introducing students to the structure of inequality, power, and privilege. Attention is paid to the intersections of various forms of inequality, including an examination of class, race, ethnicity, gender, sexuality and sexual orientation, immigration, age, ability, etc. The consequences of social inequality for life chances and social mobility are examined.

**Prerequisite(s):** SOC 1010 and sophomore standing; or permission of instructor.

**SOC 3700 INTRODUCTION TO LGBTQ STUDIES (3 credits)**

Introduces key themes and critical frameworks in Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ) Studies. This course examines scholarly contributions from a range of academic disciplines and traces some of the ways that LGBT Studies has influenced cultural and social theory more broadly. Topics include LGBTQ histories and social movements; forms of oppression including heterosexism, homophobia, and transphobia; resistance to oppression; queer activism; intersecting identities; and representations in literature, art, and popular media.

**Prerequisite(s):** SOC 1010 or WGST 2010 or WGST 2020; or permission of the instructor. Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**SOC 3800 WORK AND SOCIETY (3 credits)**

This course explores the social organization of work in the United States, from pre-industrial times to the present. It addresses how and why current work structures and practices emerged historically within a global context, and the social implications of these structures for various groups (based on race/ethnicity, immigration status, sexuality, and social class). The course grapples with the big questions: "How work is organized the way it is right now, how did we get here, and what might it look like in the future?"

**Prerequisite(s):** SOC 1010 and sophomore standing; or permission of instructor.



**SOC 3820 MEDICAL SOCIOLOGY (3 credits)**

The study of the social patterning of health and illness, including inequalities in health by stratifying elements such as race, class, and gender. Examines the social definition of health, illness, and the social position of being a sick person in society. Also examines the interaction individuals have with health care providers and the structure of medicine in the U.S. and around the world. Offers a critical examination of the social institution of medicine.

**Prerequisite(s):** SOC 1010 and sophomore standing; or permission of instructor. Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**SOC 3840 WORLD POPULATION AND SOCIAL ISSUES (3 credits)**

This course introduces students to the scientific study of populations across the world and the social issues derived from population change. It includes basic training on demographic methods and the use of data sources. It covers concepts and theories that connect population dynamics to world economic development, global inequality, refugee and immigration issues, the status of women, intergenerational competition, and population pressure on food and the environment.

**Prerequisite(s):** SOC 1010 and sophomore standing, or permission of instructor. Six hours of social science, or permission of instructor.

**Distribution:** Global Diversity General Education course

**SOC 3900 RACE AND ETHNIC RELATIONS IN THE U.S. (3 credits)**

The course explores historical and contemporary meanings of race and ethnicity and introduces students to the ways sociologists think about 'race,' race relations and racism. It views current theoretical issues, and focuses on the recent histories and the current position of several major racial-ethnic populations in the U.S.: African Americans, Latino/a Americans, Native Americans, Asian Americans, and white/European ethnics. Emphasis is on how race/ethnicity has structured groups' experiences in relation to social institutions like health, education, culture and media, the legal system, and the economy.

**Prerequisite(s):** SOC 1010 and sophomore standing; or permission of instructor. Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**SOC 4130 SOCIOLOGY OF DEVIANCE (3 credits)**

This course introduces students to the sociological study of behaviors that have been labeled as "deviant" because they presumably violate social norms. The course takes a constructionist approach, critically analyzing how deviance is socially defined, organized, and managed. Students will be challenged to see the diversity and pervasiveness of deviance in society and to question the labelling of behaviors, individuals, and powerless groups as deviant. We will explore the social processes, powerful actors, and social institutions that create deviance as well as efforts to resist definitions of deviance. (Cross-listed with SOC 8136).

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor.

**SOC 4140 URBAN SOCIOLOGY (3 credits)**

This course examines classical and contemporary sociological theories on city formation, the urbanization process, and the interaction of society and the built environment. Topics covered include suburbanization, gentrification, residential segregation, social networks, crime, housing, city culture, and public policy. The focus is on U.S. cities with selected comparisons to other world regions. Students will also get basic knowledge and exposure to research methods to study urban areas locally. (Cross-listed with SOC 8146).

**Prerequisite(s):** SOC 1010 and junior standing, or permission from the instructor.

**SOC 4150 AMERICAN FAMILY PROBLEMS (3 credits)**

This course explores the problems and issues faced by contemporary American families, such as racism and sexism; the challenges of childhood and adolescence; divorce and remarriage; work and family conflict; and family violence. The difficulty of defining both "family" and "problems" is addressed throughout the course. (Cross-listed with SOC 8156)

**Prerequisite(s):** SOC 1010 and Junior standing, or permission of instructor. Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**SOC 4170 SOCIOLOGY OF FATHERHOOD (3 credits)**

This course examines the existing social science research on fatherhood, exploring topics such as the evolution, history, demography, and politics of fatherhood; father involvement and its relationship to both children's and men's well-being; the effects of diversity and family structure on fatherhood; and public policy surrounding fatherhood. (Cross-listed with SOC 8176)

**Prerequisite(s):** SOC 1010 and junior standing, or permission of instructor. Not open to non-degree graduate students.

**SOC 4180 OCCUPATIONS & CAREERS: FULFILLMENT AND CHALLENGES AT WORK (3 credits)**

This course examines what makes individuals and groups happy and satisfied with their jobs, and the factors that can turn "a dead-end job" into a meaningful pursuit that lasts decades. The course utilizes a life course approach and covers early socialization experiences to retirement transitions. It also employs a sociological lens to explore how individual experiences in the work realm are affected by stratification (such as race/ethnicity, gender, sexuality, social class, and parental status) and as well as by occupational norms and structures, workplace relationships, and culture and practices at the organizational and societal levels. (Cross-listed with SOC 8186).

**Prerequisite(s):** SOC 1010 and junior standing, or permission of instructor

**SOC 4200 SOCIOLOGY OF THE BODY (3 credits)**

This course offers an overview of contemporary sociological theories of the body and uses these theories to explore substantive issues pertaining to the discourses, practices, and politics of the body in modern societies.

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor. Not open to non-degree graduate students.

**SOC 4210 DISABILITY AND SOCIETY (3 credits)**

This course takes a sociologically grounded but interdisciplinary look at the past, present, and potential future of disability. Along the way, competing models and theories of disability are critically explored and substantive issues pertaining to the social experiences and social responses to people with disabilities are discussed. (Cross-listed with SOC 8216)

**Prerequisite(s):** SOC 1010 and junior or senior standing; or permission of instructor. Not open to non-degree graduate students.

**SOC 4240 SOCIAL TRANSFORMATIONS IN LATIN AMERICA (3 credits)**

The course reviews the main social, economic, and political forces that have shaped Latin American societies, and the sociological theories used to understand Latin American development and underdevelopment. Race, ethnicity, gender and class in Latin America, as well as the region's position in the global economy are examined. (Cross-listed with SOC 8246, LLS 4240, LLS 8246).

**Prerequisite(s):** SOC 1010 and junior standing or permission of instructor

**Distribution:** Global Diversity General Education course

**SOC 4250 RESEARCHING LATIN AMERICAN MIGRATIONS (3 credits)**

In this course we will use an interdisciplinary lens to study the changes and continuities of migration in the Americas. The course starts with an overview of immigration to the Americas during the first era of mass migration (1850-1920) to explore the relevance of European migrations for national and identity constructions in the Southern Cone of America. Students then will be introduced to the impacts of social and political change on emigration flows, both regionally and beyond the region. They will also explore migration related policies at the national and regional level. We will also study the changes and continuities in the migration system of the Americas. Lastly, we will analyze the new North-South migration, as well as immigration to Latin America from Asia (recent and historical), Europe, and Africa. (Cross-listed with SOC 8256, LLS 4250, LLS 8256).

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor.

**Distribution:** Global Diversity General Education course

**SOC 4300 SOCIOLOGY OF AGING (3 credits)**

This course will introduce students to important theories and concepts in the sociological study of aging and give deeper understanding of the experiences that people encounter as they grow older, including retirement, disease and disability, and long-term care. In addition to exploring the challenges faced by older adults, this course will focus on factors that contribute to successful aging. (Cross-listed with GERO 4440, GERO 8446, SOC 8306).

**SOC 4310 SOCIOLOGY OF SEXUALITIES (3 credits)**

This class focuses on the social construction of sexualities - especially heterosexual sexualities, bisexual sexualities, and homosexual sexualities. A primary focus of the class will be LGBT/Queer Studies. The class examines how sexual desires/identities/orientations vary or remain the same in different places and times, and how they interact with other social and cultural phenomenon such as government, family, popular culture, scientific inquiry, and race, gender, and class. (Cross-listed with SOC 8316)

**Prerequisite(s):** SOC 1010 and Junior standing; or permission of the instructor. Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**SOC 4350 WORK & FAMILY (3 credits)**

This course examines the contemporary problems that individuals, families and communities in the U.S. have in integrating work and family/personal life. (Cross-listed with SOC 8356)

**Prerequisite(s):** SOC 1010 and junior or senior standing; or permission of instructor.

**SOC 4410 QUALITATIVE METHODS (3 credits)**

This course familiarizes students with contemporary qualitative methodologies and techniques by which the social sciences explore social and cultural relations in natural settings. Students will conduct individual and/or group field projects. (Cross-listed with SOC 8416)

**Prerequisite(s):** SOC 3510 and junior standing, or permission of instructor.

**SOC 4440 HUMAN CONNECTION, LONELINESS, & HEALTH (3 credits)**

This course examines the "loneliness epidemic" through a sociological perspective and is based on the premise that loneliness is a public health issue, as research consistently shows it is associated with a vast array of physical and mental health outcomes. After discussing the extent of loneliness and how to define it by distinguishing it from other types of social pain, the course covers: 1) the extent and nature of loneliness and its cultural/social sources; 2) the pathways from loneliness to health outcomes; and 3) possible interventions to reduce loneliness and improve public health. (Cross-listed with SOC 8446).

**Prerequisite(s):** SOC 1010 and junior standing; or permission of the instructor.

**SOC 4470 SOUTH AFRICA & THE SOCIO POLITICS OF APARTHEID (3 credits)**

South Africa and the Socio Politics of Apartheid examines the lived experiences of South African people under the Apartheid system, and their long struggle against European colonial oppression and racial segregation throughout the 20th century. Students will examine the laws, tools, and strategies that developed and sustained Apartheid, and the anti-Apartheid movements and international pressure that led to its repeal and South African democratic elections. (Cross-listed with BLST 8476, BLST 4470, PSCI 8476, PSCI 4470, SOC 8476).

**Prerequisite(s):** Junior standing or permission of instructor

**Distribution:** Global Diversity General Education course

**SOC 4550 ORGANIZATIONAL DIVERSITY AND INCLUSION (3 credits)**

This course provides advanced-level knowledge of the structural understanding, assessment, analysis, and management of social diversity as well as successful inclusion strategies in the workplace. Concepts and theories dealing with structural basis of the creation of difference, consequences of difference, inclusion, affirmative action, and diversity consulting skills are fully examined in this course. This course will prepare students for successful leadership in diverse organizational environments. (Cross-listed with SOC 8556)

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor.

**SOC 4620 APPLIED FORMAL ORGANIZATIONS (3 credits)**

An advanced-level applied organizational sociology course that uses organizational theory, concepts, research, and practice to examine the structural bases of organizational effectiveness, efficiency, survival, and actions of organizational members. The course is designed to prepare students for organizational leadership using advanced knowledge and skills of organizational sociology. (Cross-listed with SOC 8626).

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor.

**SOC 4700 WOMEN'S HEALTH AND ISSUES OF DIVERSITY (3 credits)**

This course provides a critical understanding of the inter-relationship between socio-cultural, economic, and political factors and women's physical and mental health. The aim is to provide an overview of the experience with the health care system. Emphasis will be on critically examining recent scholarship from a sociological, behavioral, health policy perspective. (Cross-listed with SOC 8706, PHHB 4700, PHHB 8706)

**Distribution:** U.S. Diversity General Education course

**SOC 4740 SOCIAL JUSTICE AND SOCIAL CHANGE (3 credits)**

This course investigates the economic, political and social constraints on equality present in local, national and global arrangements. Students will gain a theoretical understanding of these conditions as well as those that lead to social change, spanning from day-to-day resistance techniques to large scale social movements. Students will participate in a service learning or applied project as they explore contemporary social justice issues and learn both theoretical and practical tools needed to become successful change makers, activists, or community organizers. Examples of social justice movements or campaigns form the basis for understanding injustice at a local, national, and global level. (Cross-listed with SOC 8746)

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor.

**SOC 4760 ENVIRONMENTAL SOCIOLOGY (3 credits)**

This course is an introduction to environmental sociology, a field of sociology that explores the interaction between the environment and society. Environmental sociologists consider how political, social, and economic factors have come to shape our patterns of interaction with the natural and built environment. Students will be expected to use the sociological perspective to understand the landscape of environmental problems, focusing on such issues as environment and health, disaster, environmental policy, climate change, environmental risk, human and animal interactions, sustainability, environmental justice and social movements. (Cross-listed with SOC 8766).

**Prerequisite(s):** SOC 1010 and junior standing or permission of instructor

**SOC 4770 POLITICAL SOCIOLOGY (3 credits)**

This course explores political sociology, focusing on political processes and power. Political sociologists investigate relationships between political institutions and various other institutions, including but not limited to the economy, education, media, and religion, and the impacts that these relationships have on society and the individuals that comprise the society. This course will explore the concepts, theories, and knowledge that comprise this field such as power, legitimacy, the state, networks, stratification, and collective action. (Cross-listed with PSCI 4770, PSCI 8776, SOC 8776).

**Prerequisite(s):** SOC 1010, junior standing or permission from instructor

**SOC 4780 URBAN LATIN AMERICA (3 credits)**

This course examines the experience of Latin American urbanization, attending to its contributions to urban sociology, social movements, and policymaking. Topics include urban transitions (e.g. pre-Hispanic to colonial, post-colonial to industrial, and the neoliberal turn), socio-spatial configurations (e.g. plazas, squatter settlements), urban marginality debates, urban politics, and planning as well as governance innovations (e.g. bus rapid transit systems, participatory budgeting). Students will compare city case studies across the region and to urban life in the United States. (Cross-listed with SOC 8786, LLS 4780, LLS 8786, CACT 8186).

**Prerequisite(s):** SOC 1010 and junior standing or permission of instructor

**Distribution:** Global Diversity General Education course

**SOC 4800 CONTEMPORARY TOPICS IN SOCIOLOGY (3 credits)**

This course reviews research and writing in an area of current interest in the field of sociology. The specific topic(s) to be covered will be announced at the time the course is being offered. Since the topics will vary, students may elect to take this course more than once. (Cross-listed with SOC 8806)

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor.

**SOC 4830 SOCIOLOGY OF MENTAL HEALTH & ILLNESS (3 credits)**

This course will apply the sociological perspective to various topics regarding mental health and illness. The course will cover topics such as the social construction of mental illness, the social epidemiology of mental illness, labeling and stigma of those with a mental illness, and mental health policy/treatment. (Cross-listed with SOC 8836)

**Prerequisite(s):** SOC 1010, and junior standing; or permission of the instructor.

**SOC 4850 SOCIOLOGY OF RELIGION (3 credits)**

This course looks at religion as a social and cultural phenomenon, examining how religious beliefs, practices, institutions and movements shape and are shaped by their social context. Topics include: sociological theories and explanations of religion and spirituality; definitions of religion and the distinction between religion and other ideologies or worldviews; the measurement of religiosity and the scientific study of religion; trends in religiosity, spirituality, and the religious landscape historically and globally; sociological insights gained from the study of new religions, secularization, fundamentalism, and other issues related to contemporary religious experience. (Cross-listed with SOC 8856)

**Prerequisite(s):** SOC 1010 or permission of instructor.

**SOC 4880 CONTEMPORARY TOPICS IN SOCIOLOGY (1 credit)**

This course reviews research and writing in an area of current interest in the field of sociology. The specific topic(s) to be covered will be announced at the time the course is being offered. Since the topics will vary, students may elect to take this course more than once. (Cross-listed with SOC 8886).

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor.

**SOC 4890 CONTEMPORARY TOPICS IN SOCIOLOGY (2 credits)**

This course reviews research and writing in an area of current interest in the field of sociology. The specific topic(s) to be covered will be announced at the time the course is being offered. Since the topics will vary, students may elect to take this course more than once. (Cross-listed with SOC 8896).

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor.

**SOC 4900 SENIOR THESIS (4 credits)**

This is a capstone research and writing course designed for Sociology majors who are in their senior year. The major purpose of the course is to produce an original thesis of 20-25 pages, which will be developed through a series of assignments. Students will choose their own thesis topics with the purpose of reflecting on and synthesizing knowledge about sociological concepts, theories, and research methods. This course meets the University requirement of a third writing course.

**Prerequisite(s):** SOC 1010, 2120, 2130, 2134, 3510, 3514, Sociology major, and senior standing; or permission of instructor. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course

**SOC 4910 INTERNSHIP IN SOCIOLOGY (1-3 credits)**

This course offers students an opportunity to experience sociology and/or anthropology through direct involvement in non-profit, for profit, government, or other organization. The host organization must be approved in advance in consultation with the internship coordinator. This course may be repeated for a maximum of six credit hours.

**Prerequisite(s):** Senior standing and permission of instructor.

**SOC 4990 INDEPENDENT STUDY IN SOCIOLOGY (1-3 credits)**

Guided readings and/or independent research in a special sociological topic under the supervision of a Sociology faculty member. A formal contract specifying the nature of the work to be completed must be signed before enrolling in the course. May be taken for a maximum of six hours.

**Prerequisite(s):** Permission of instructor. Not open to non-degree graduate students.

## Spanish (SPAN)

### Spanish Undergraduate Courses

**SPAN 1010 LINGUISTIC DIVERSITY IN US MEDIA (3 credits)**

Delivered in English, this course introduces students to diversity in the US using language in context as points of departure. In this course, we analyze the intersection between language and ideological constructions (e.g., the objectification of Latino women, discrimination and stereotypes toward Asian peoples) and examine nodes of social meaning through visual and audio representations of language, as consumed in music, tv series, art (e.g., street art, installations) and social media. Departing from a US-centric and an assimilative approach, the course provides a historical and geographic lens through which these languages exist in the United States. (Cross-listed with WLL 1000, FREN 1010, JAPN 1020, GERM 1010).

**Distribution:** U.S. Diversity General Education course and Humanities and Fine Arts General Education course

**SPAN 1100 ELEMENTARY SPANISH I FOR HEALTHCARE PROFESSIONALS (5 credits)**

Spanish 1100 presents an introduction to the Spanish language and fosters the mastery of all linguistic skills; i.e., speaking, listening, reading, and writing, via a communicative approach. It also promotes an understanding of the target language's culture with an emphasis on sociocultural issues relevant to healthcare services.

**SPAN 1110 ELEMENTARY SPANISH I (5 credits)**

Elementary Spanish I emphasizes the mastery of all four language skills (speaking, listening, reading, and writing) and introduces cultural topics from across the Spanish-speaking world.

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**SPAN 1120 ELEMENTARY SPANISH II (5 credits)**

Spanish 1120 is the second course in the 16-hour Arts and Sciences Foreign Language requirement. It is communicative in approach and emphasizes the mastery of all language skills including speaking, listening, reading, and writing.

**Prerequisite(s):** SPAN 1110 with a grade of C- or better, or placement by department diagnostic exam. Department permission is needed for transfer credit.

**SPAN 1140 INTRODUCTION TO SPANISH FOR HEALTH SCIENCES (1 credit)**

This course introduces students in the Spanish for Health Sciences concentration to fundamental topics that emerge from the intersection between healthcare and the Spanish language. These topics include: language diversity; language policy in the US; and historical and sociocultural factors that prevent access to care.

**SPAN 1200 ELEMENTARY SPANISH 2 HEALTHCARE PROFESSIONALS (5 credits)**

Spanish 1200 is built on the content introduced in Spanish 1100 and presents to students more complex communicative tasks that are typical of the interactions between patient/client and healthcare providers. The course fosters the mastery of all linguistic skills; i.e., speaking, listening, reading, and writing, via a communicative approach. It also promotes an understanding of the target language's culture with an emphasis on sociocultural issues relevant to healthcare services.

**Prerequisite(s):** SPAN 1110 or SPAN 1100 with a grade of C- or better, or placement by department diagnostic exam. Department permission is needed for transfer credit.

**SPAN 1210 SPANISH FOR BEGINNERS I (3 credits)**

Spanish 1210 helps you prepare for the moments when Google Translate fails and your Spanish-speaking friend is talking way too fast! In this course, you'll learn to handle real-life situations - like ordering tacos, getting lost in a new city, or finally understanding what your favorite song lyrics actually mean from a new cultural perspective. Because life doesn't come with subtitles, we'll focus on building all language skills, including speaking, listening, reading, and writing skills so you can confidently dive into the Spanish-speaking world. Get ready to mispronounce words, laugh at yourself, and walk away knowing a whole lot more than just "hola."

**Distribution:** Global Diversity General Education course and Humanities and Fine Arts General Education course

**SPAN 2110 INTERMEDIATE SPANISH I (3 credits)**

Spanish 2110 is the third course in the 16-hour Arts and Sciences Foreign Language requirement. It is communicative in approach and emphasizes the mastery of all language skills including speaking, listening, reading, and writing.

**Prerequisite(s):** SPAN 1120 with a grade of C- or better, or placement by department diagnostic exam. Department permission is needed for transfer credit.

**SPAN 2120 INTERMEDIATE SPANISH II (3 credits)**

Spanish 2120 is the fourth course in the 16-hour Arts and Sciences Foreign Language requirement. It is communicative in approach and emphasizes the mastery of all language skills including speaking, listening, reading, and writing.

**Prerequisite(s):** SPAN 2110 with a grade of C- or better, or placement by department diagnostic exam. Department permission is needed for transfer credit.

**SPAN 2130 ACCELERATED SECOND-YEAR SPANISH (6 credits)**

This accelerated course combines the content of Intermediate Spanish I and Intermediate Spanish II. It is communicative in approach and emphasizes the mastery of all language skills including speaking, listening, reading, and writing. Successful completion of this course fulfills the College of Arts and Sciences foreign language requirement. The entire course must be completed to receive credit.

**Prerequisite(s):** SPAN 1120 or placement by Department of Foreign Languages diagnostic examination. Department permission is needed for transfer credit.

**SPAN 2150 INTRODUCTION TO HISPANIC LITERATURES AND CULTURES (3 credits)**

In this course, students become acquainted with canonical texts within the Spanish and Spanish American literary traditions. The course focuses on developing reading and writing skills, and on helping students distinguish between literal and metaphorical meanings, which serves as a preparation for the development of more advanced interpretive skills.

**Prerequisite(s):** Placement exam results or advisor permission

**SPAN 2300 INTERMEDIATE SPANISH I FOR HEALTHCARE PROFESSIONALS (3 credits)**

The course integrates and refines learners' Spanish competencies, and allows students to apply them to real-life situations in the healthcare field. As such, this course enhances all linguistic skills, with a focus on the issues of register, dialect, and culturally appropriate vocabulary in the healthcare context. Also, the course fosters control and ease of speaking and listening; reading and writing are approached within the context of health literacy.

**Prerequisite(s):** SPAN 1110 & SPAN 1120 or SPAN 1100 & SPAN 1200; or enrollment via placement exam

**SPAN 3010 SPANISH FOR HERITAGE SPEAKERS I (3 credits)**

This course is designed to offer Spanish-speaking students an opportunity to study Spanish in an academic setting. Students will acquire Spanish literacy skills, develop their academic language skills in Spanish, and learn more about the Spanish language and their cultural heritage.

**Prerequisite(s):** Placement exam results or adviser permission

**SPAN 3020 SPANISH FOR HERITAGE SPEAKERS II (3 credits)**

This course will continue to build upon the Spanish language skills students have covered in Spanish for Heritage Speakers I. Students will develop strategic academic vocabulary, learn to critically analyze a text, produce a variety of written texts, and acquire new information in different academic content areas.

**Prerequisite(s):** SPAN 3010 or adviser permission

**SPAN 3030 SPANISH CONVERSATION (3 credits)**

Practice in a variety of conversational situations and levels.

**Prerequisite(s):** SPAN 2120 or SPAN 2130 or placement by Department of Foreign Languages diagnostic examination, or departmental permission. The course is for second-language learners. Heritage and native students should not enroll.

**SPAN 3040 SPANISH GRAMMAR AND COMPOSITION (3 credits)**

Review of grammatical principles and practice in written composition.

**Prerequisite(s):** SPAN 2120 or SPAN 2130 or placement by Department of Foreign Languages diagnostic examination, or departmental permission. The course is for second-language learners. Heritage and native students should not enroll.

**SPAN 3050 LATIN AMERICA IN CONTEXT: HEALTH, BUSINESS, ENVIRONMENT, AND SOCIETY THROUGH ORAL PRACTICE (3 credits)**

This course focuses on the development and intensive practice of oral expression in Spanish, and is intended for students interested in the fields of business, health, education, environmental sciences, social work, and cultural studies, who are either heritage speakers of Spanish or who are completing a major/minor in Spanish. The class provides a broad context of current relevant issues in Latin America, including politics and society; the state of the economy after decades of neoliberalism; racism; indigenous and Afro-descendant identities; domestic and gender violence; health and disabilities; adult, youth, & child immigration; and ecology and the environment. (Cross-listed with LLS 3050).

**Prerequisite(s):** SPAN 3010 or SPAN 3030

**SPAN 3060 READINGS IN SPANISH (3 credits)**

This course aims to increase students' fluency in reading and to develop comprehension skills that will help them in advanced language studies. The course will also enrich students' vocabulary through the use of a variety of primary sources; many genres will be sampled.

**Prerequisite(s):** SPAN 2120 or SPAN 2130. Not open to non-degree graduate students.

**SPAN 3070 SPECIAL TOPICS IN SPANISH (3 credits)**

This seminar-style course offers an in-depth exploration of selected themes in Spanish language and culture. The course content will vary each semester, focusing on a specific area of study, e.g., food and identity; music and politics; tourism and hospitality. Students will engage with primary texts, critical discussions, and multimedia resources to develop analytical skills and a deeper appreciation of the cultural and linguistic richness of the Spanish-speaking world. The course is taught in Spanish.

**Prerequisite(s):** SPAN 3010 or SPAN 3030



**SPAN 3170 SURVEY OF SPANISH LITERATURE I (3 credits)**

Introduction to the principal authors and works of Spanish literature from El Cid to the 17th century.

**Prerequisite(s):** SPAN 3030, SPAN 3040, or departmental permission. Not open to non-degree graduate students.

**SPAN 3180 INTRODUCTION TO SPANISH LITERATURE (3 credits)**

Spanish 3180, Introduction to Spanish Literature, aims to familiarize students with the most important writers and literary movements from the 18th to the 21st centuries, giving an overview of the history, society and culture of these times. This course will also focus on the continued development of students' listening, speaking, reading, and essay skills. In pursuit of these goals, students will have the opportunity to read not only the specific texts but critical and introductory articles that will help them situate themselves within this particular historical and literary context. Students will also have to write essays, take tests, and develop their critical skills.

**Prerequisite(s):** SPAN 3010 or SPAN 3030 and SPAN 3060 or departmental permission.

**SPAN 3310 SUSTAINABILITY AND THE ENVIRONMENT IN THE SPANISH-SPEAKING WORLD (3 credits)**

This course presents a broad, interdisciplinary introduction to some of the most pressing environmental and ecological problems in various parts of the Spanish-speaking world, as well as some of the ways in which such problems are being addressed at different levels to promote social and ecological sustainability (locally, nationally, regionally, and globally). The Spanish-speaking world, also known as the Hispanosphere, encompasses the following geographical areas: Spain, Hispanic America, Equatorial Guinea, and portions of the United States. In addition, the course explores some of the ways in which these topics have been represented through a variety of genres, such as documentaries, fiction films, comics, narrative texts, poetry, and essays. Finally, the course also focuses on the continued development of Spanish language skills, such as the acquisition of specialized vocabulary, formal and informal essay writing, presentational speaking skills, advanced reading, and the analysis of film and other media. (Cross-listed with ENVN 3310).

**Prerequisite(s):** SPAN 3030 or SPAN 3010, SPAN 3040 or SPAN 3020, and SPAN 3060.

**SPAN 3350 STORYTELLING IN SHORT STORIES (3 credits)**

The aim of this course is for students to get acquainted with storytelling, cultures, and traditions of different Hispanic nations through the reading and listening of short stories. Through short stories, the course will present a broad and interdisciplinary approach to the most important authors and issues concerning today's world, including education, the environment, law, the workplace, gender and race relations, and political and military conflicts in Spanish-speaking countries. Besides learning about current Hispanic and Latino/a literary authors, students will focus on the development of oral skills in Spanish. They will understand and explore ways to communicate clearly and in an informed manner about current issues, while also developing an understanding of the way of thinking of a variety of people from a multidisciplinary perspective.

**Prerequisite(s):** SPAN 3030 or SPAN 3010 and SPAN 3060

**SPAN 3410 SPANISH CIVILIZATION (3 credits)**

History, geography, national economy, politics, society, education, art, music and literature of Spain.

**Prerequisite(s):** SPAN 3030 or SPAN 3010, SPAN 3040 or SPAN 3020, and SPAN 3060.

**SPAN 3420 LATIN AMERICAN CIVILIZATION (3 credits)**

What do we know about Latin American culture, geography, politics and languages? How has Latin America been imagined from the United States? Does it make sense to think of Latin America as one space brought together by a similar history or is it better to imagine it as twenty particular countries with intersecting pasts and futures? This course will attempt to answer these questions by introducing you to a number of key topics and debates common to contemporary Latin American culture, including issues such as democracy, class, race/ethnicity, gender/sexuality, religion, family and globalization. (Cross-listed with LLS 3420).

**Prerequisite(s):** SPAN 3030 or SPAN 3010

**SPAN 3510 SPANISH PHONETICS AND PHONOLOGY (3 credits)**

Introduction to basic concepts in phonetics and phonology, and intensive practice in Spanish pronunciation.

**Prerequisite(s):** SPAN 3030 or SPAN 3040. Not open to non-degree graduate students.

**SPAN 3570 SPANISH FOR HEALTHCARE PROFESSIONALS (3 credits)**

Spanish for Healthcare Professionals provides an introduction of specialized communication in the healthcare context. Course objectives include the development of essential informal and formal vocabulary and expressions, and sociocultural competencies necessary for successful interaction with patients and other healthcare providers.

**Prerequisite(s):** SPAN 3030 or SPAN 3010

**SPAN 3580 BUSINESS SPANISH (3 credits)**

An introduction to the Spanish business world. Students will acquire the necessary skills and strategies to understand the differences in business practices and cultures between the US and Spanish-speaking countries. No prior business knowledge is required.

**Prerequisite(s):** SPAN 3030 and SPAN 3040 or SPAN 3010 and SPAN 3020, or permission from a Spanish advisor.

**SPAN 4020 LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING (3 credits)**

This class aims to expand students' vocabulary in Spanish. This will be achieved through doing an overview of current research that investigates how vocabulary is learned; identifying effective vocabulary learning strategies; and exploring topics not commonly encountered in Spanish classes such as commerce and science. The course also includes points of contact with the Spanish-speaking community in Omaha, where students can participate in interactions that connect what has been learned in the classroom to language use in real life. (Cross-listed with SPAN 8026).

**Prerequisite(s):** SPAN 3030, SPAN 3040, and SPAN 3060 OR SPAN 3010, SPAN 3020, and SPAN 3060

**SPAN 4030 ADVANCED SPANISH CONVERSATION (3 credits)**

This course targets the development of oral skills in Spanish through the incorporation of complex and sophisticated conversational structures and nuanced lexicon. In particular, the course focuses on presentational (i.e., expressing or exposing ideas or opinions), and interpersonal speaking (i.e., engaging in conversation where learners narrate and describe in the major time frames of past, present, and future in paragraph-length discourse with control of aspect). (Cross-listed with SPAN 8036)

**Prerequisite(s):** SPAN 3030 or SPAN 3010 or departmental permission

**SPAN 4040 ADVANCED COMPOSITION AND STYLISTICS (3 credits)**

In this capstone course, required for the completion of the major, learners will explore and practice advanced grammatical structures, write compositions in a variety of genres, and familiarize themselves with advanced stylistics. (Cross-listed with SPAN 8046).

**Prerequisite(s):** SPAN 3030 or SPAN 3010, SPAN 3040 or SPAN 3020 and SPAN 3060; Majors only, senior standing. Not open to non-degree graduate students.

**Distribution:** Writing in the Discipline Single Course



**SPAN 4060 INTRODUCTION TO TRANSLATION AND INTERPRETATION (3 credits)**

This course offers an introduction to the translation and interpretation field. Course objectives include (a) understanding translation theory; (b) comprehending the role of communication in translation and interpretation; (c) targeting common grammatical and pragmatic errors; (d) increasing vocabulary knowledge in a variety of fields; and (e) gaining an increased awareness of the rigor and demands innate to the translation and interpretation fields. (Cross-listed with SPAN 8066).

**Prerequisite(s):** SPAN 3030 or SPAN 3010 or SPAN 3570 and declared minor in Spanish for Health Sciences or SPAN 3050 and declared minor in Spanish for Health Sciences

**SPAN 4070 HISPANIC BILINGUALISM (3 credits)**

This course explores bilingualism among Spanish speaking populations. Topics include societal bilingualism, the history of Spanish and language policy in Spain, Latin America, and the U.S., psychological aspects of bilingualism, monolingual vs. bilingual acquisition, first vs second language acquisition, and Spanish as a heritage language in the U.S. (Cross-listed with SPAN 8076).

**Prerequisite(s):** SPAN 3030, SPAN 3040, SPAN 3060 or SPAN 3010, SPAN 3020, SPAN 3060 and SPAN 4080 or instructor permission

**SPAN 4080 INTRODUCTION TO HISPANIC LINGUISTICS (3 credits)**

This course introduces students to the field of linguistics by exploring the following areas: phonetics and phonology (sound systems), morphology (word formation), historical linguistics (language development over time), and sociolinguistics and pragmatics (language in society and context), among others, as framed within the study of the Spanish language. (Cross-listed with SPAN 8086).

**Prerequisite(s):** SPAN 3030 and SPAN 3040 OR SPAN 3010 and SPAN 3020

**SPAN 4120 HISPANIC SOCIOLINGUISTICS (3 credits)**

This course introduces sociolinguistics, the study of the relationship between language and society, with an emphasis on the Spanish language. Its focus will be on correlational linguistics (how social factors such as age, gender and socioeconomic status affect language) and language and society (the role language plays in human conduct and social organization). Course topics will include the concept of speech communities, sociolinguistic variables, phonological and syntactic variation as well as languages in contact, bilingualism, Spanish in the U.S., Spanish as a heritage language, and language attitudes and ideologies. (Cross-listed with SPAN 8126).

**Prerequisite(s):** SPAN 3030 or SPAN 3010, SPAN 3040 or SPAN 3020, SPAN 3060 and SPAN 4080 or instructor permission

**SPAN 4130 SPANISH IN THE UNITED STATES (3 credits)**

This course looks at Spanish in the U.S. from a sociolinguistic perspective. Course topics include: Dialectal/regional differences, dialect contact, Spanish- English bilingualism and code-switching, "Spanglish", language maintenance, language ideologies surrounding Spanish in the U.S., and Spanish in public spheres (e.g., TV, movies, radio, music, stand-up comedy). (Cross-listed with SPAN 8136).

**Prerequisite(s):** SPAN 3030 or SPAN 3010 or instructor permission or SPAN 3570 and declared minor in Spanish for Health Sciences or SPAN 3050 and declared minor in Spanish for Health Sciences

**SPAN 4140 INTRODUCTION TO LATIN AMERICAN FILM (3 credits)**

The course will be a thematic study of significant Latin American films emphasizing and further investigating their relationship to history, culture, society and political issues that have often given rise to social movements. Films from a variety of Spanish-speaking countries including Mexico, Argentina, Chile, Cuba, Bolivia, etc. will be studied in their socio-political context. At the 8146 level, students will be introduced to theoretical approaches such as early film theory, montage theory, feminist theory, race theory, and phenomenological film theory in order to deepen their understanding these themes. (Cross-listed with SPAN 8146, LLS 4140).

**Prerequisite(s):** SPAN 3030 or SPAN 3010, SPAN 3040 or SPAN 3020, SPAN 3060

**SPAN 4150 LITERATURE/CULTURE: CENTRAL AMERICA AND THE CARIBBEAN 1898-2000 (3 credits)**

"Literature/ Culture: Central America and the Caribbean 1898- 2000" studies major historical and socio-cultural events in Latin American history in the 20th century, through their articulation in literary texts, film, and other cultural expressions from Central America and the Hispanic Caribbean. (Cross-listed with SPAN 8156, CACT 8416)

**Prerequisite(s):** SPAN 3030, SPAN 3040 and SPAN 3060 or permission of instructor

**SPAN 4170 INTRODUCTION TO LATIN AMERICAN LITERATURES (3 credits)**

The course is intended as an introduction to the study of canonical and non-canonical texts in Latin American literatures, from the 16th to 21st centuries. It seeks to acquaint students with the rich literary traditions of a large region, from South America to Central America and Mexico, as well as with the historical challenges posed by the salient heterogeneity of texts included in the Latin American corpus, from the standpoint of ethnicity, gender, social class, and literary genre. The course also focuses on continuing to develop Spanish language skills, specifically reading for comprehension and interpretation of metaphorical meaning, writing, and presentational speaking skills in Spanish. (Cross-listed with SPAN 8176, LLS 4170).

**Prerequisite(s):** SPAN 3030, SPAN 3040, or SPAN 3010, SPAN 3020; SPAN 3060.

**SPAN 4190 REPRESENTATIONS OF THE SPANISH CIVIL WAR IN FILM AND POPULAR CULTURE (3 credits)**

This course explores the principal social, economic, political, and cultural implications of the Spanish Civil War, including its antecedents and consequences, in order to critically analyze the ways in which such historical matters have been represented over time through film, as well as through other media. The course also focuses on the continued development of Spanish language skills, such as formal and informal essay writing, presentational speaking skills in Spanish, advanced reading, and interpretation of film theory and criticism. (Cross-listed with SPAN 8196).

**Prerequisite(s):** SPAN 3030, SPAN 3040, and SPAN 3060

**SPAN 4220 THE STRUCTURE OF SPANISH (3 credits)**

This course introduces students to the structure of the Spanish language with a focus on its morphology and syntax as seen in the study of constituents of a sentence, lexical categories, content and function words, the pronominal system, the structure of simple and complex sentences, and the verbal system, among others. It reviews frequent syntactical errors in Spanish L2 and Heritage learners with the purpose of advancing their linguistic competence. (Cross-listed with SPAN 8226).

**Prerequisite(s):** SPAN 3030 and 3040 or SPAN 3010 and SPAN 3020

**SPAN 4330 LINGUISTIC JUSTICE AND LATINO HEALTH (3 credits)**

Language barriers compromise the quality of health care for millions of Spanish-speaking patients each year. Spanish-speaking patients, for example, have disease (e.g., musculoskeletal diseases, pesticide poisoning, cervical cancer, HIV/AIDS), mortality, and pain burdens at least twice as high as English-speaking patients. At the same time, they have been disproportionately affected by infectious diseases such as the tuberculosis outbreaks or the COVID-19 pandemic. These facts make language a crucial concern for the improvement of health among Latinos in the US. Students in this course examine the relationship between language, health care, and health among Spanish speakers in the US through the dual lens of sociolinguistics and public health. We consider the effect of linguistic and discursive practices on access to health information and examine some of the measures currently in place to improve the transmission of health information across language boundaries. (Cross-listed with SPAN 8336).

**Prerequisite(s):** Instructor permission

**SPAN 4510 ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES (3 credits)**

The course will examine representations of illness, disease, and affections in literary and cultural texts from the Latin American Southern Cone, focusing in Argentina, Uruguay, and Chile. It will explore notions of health and disease, as embedded in literary and cultural texts from the late 19th to the 21st centuries. We will examine the ways in which physical ailments, mental health symptoms, and other conditions or disorders have been conceptualized and portrayed, co-relating the individual "disruptions" caused by unwellness with a host of social and cultural factors. The course will also explore current treatments and therapies for the illnesses discussed in the texts, taking into account the integration of western and alternative medicine and practices. (Cross-listed with SPAN 8516, LLS 4510, LLS 8516). **Prerequisite(s):** SPAN 3010 and SPAN 3020 or SPAN 3030 and SPAN 3040 or SPAN 3050 and declared minor in Spanish for Health Sciences or SPAN 3570 and declared minor in Spanish for Health Sciences or special permission from instructor.

**SPAN 4530 DIALECTS OF THE SPANISH-SPEAKING WORLD (3 credits)**

This course explores the diversity and variation of the various dialects within the Spanish-speaking world. Special attention will be devoted to understanding phonetic and phonological processes that make up these dialects. Students will increase their familiarity with the diversity of the Spanish-speaking world and the complexity of the relationship between languages and dialects. Through the course, students will employ data-collection skills and methods commonly used in the field of linguistics. Course will be conducted in Spanish. (Cross-listed with SPAN 8536).

**Prerequisite(s):** SPAN 3030 or SPAN 3010, SPAN 3040 or SPAN 3020, SPAN 3060 and SPAN 4080 or instructor permission

**SPAN 4540 THE LANGUAGE OF REGGAETÓN: RACE, GENDER & CARIBBEAN FLOWS (3 credits)**

This course applies theories and methods from the field of linguistics to the analysis of reggaetón and its surrounding cultural practices. It explores ties between language, race, gender, sexuality, and latinidad as connected to this musical form. This course involves a deep-dive into this Afro-Latino genre, which has evolved from its origins in Puerto Rico and Panamá - including its roots in West Africa, Jamaica, and other locals within the Black diaspora - to a global musical phenomenon. Students will analyze "El Movimiento" through various levels of linguistic and social analysis: structural linguistics (phonetics, phonology, morphosyntax, lexicography, etc.), discourse analysis, sociocultural and linguistic anthropology, critical race theory, and feminist & queer theory. (Cross-listed with SPAN 8546).

**Prerequisite(s):** SPAN 3030 or SPAN 3010, SPAN 3040 or SPAN 3020, SPAN 3060 or instructor permission

**SPAN 4760 FORENSIC LINGUISTICS (3 credits)**

This course will present an overview of forensic linguistics with an emphasis on the areas where linguistics (i.e., the study of language and its structures) and the law intersect. We will especially focus on these items: the nature of legal language, linguistic methods for determining the meaning of laws and statutes, types of linguistic analysis used for investigating deception and fraud, language used for profiling and identifying suspects in criminal cases, the relationship between language proficiency and defendants' ability to understand their rights, the legal and linguistic complexities of invoking one's rights, the language-related factors that lead to false confessions, the role of linguistic analysis in civil cases, and the challenges faced by court interpreters and other linguistic complexities of the courtroom. (Cross-listed with SPAN 8766).

**SPAN 4800 INTERNSHIP FOR LANGUAGE IN CONTEXT (3 credits)**

This course provides students with practical, hands-on experience in a professional setting related to their language studies. This course offers an opportunity for students to apply their language skills in real-world contexts while gaining valuable insights into various industries, organizations, or institutions. (Cross-listed with WLL 4800).

**Prerequisite(s):** Instructor permission. Not open to non-degree graduate students.

**SPAN 4900 INDEPENDENT STUDY (1-3 credits)**

Specially planned readings in a well-defined field of literature or linguistics carried out under the supervision of a member of the foreign language faculty. As independent study courses are intended to enrich a student's regular academic program, they may not be taken as substitutes for scheduled classroom courses of the same nature, nor should they be taken by majors or minors in the department prior to fulfilling required course work..

**Prerequisite(s):** Senior status, no incompletes outstanding, and departmental permission.

**SPAN 4950 PRO-SEMINAR: LITERATURE AND/OR FILM (3 credits)**

This course is dedicated to the study of a narrower field of the literature and/or cinema of the Spanish-speaking world. (Cross-listed with SPAN 8956)

**Prerequisite(s):** SPAN 3030, SPAN 3040, and SPAN 3060

**SPAN 4960 PRO-SEMINAR: CULTURE AND SOCIETY (3 credits)**

This course will address a narrow field of study of the civilization, history, film, contemporary culture, art, politics, and/or cultural studies of the Spanish-speaking world. (Cross-listed with SPAN 8966)

**Prerequisite(s):** SPAN 3030 or SPAN 3010 or SPAN 3570 and enrolled in Spanish for Health Sciences minor or SPAN 3050 and enrolled in Spanish for Health Sciences minor

**SPAN 4970 PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (3 credits)**

This course addresses a narrow field of study in linguistics or the professional language of the Spanish-speaking world. (Cross-listed with SPAN 8976)

**Prerequisite(s):** SPAN 3030 or SPAN 3010 or SPAN 3570 and enrolled in Spanish for Health Sciences minor or SPAN 3050 and enrolled in Spanish for Health Sciences minor

## Special Education & Communication Disorders (SPED)

### Special Education & Communication Disorders Undergraduate Courses

**SPED 1110 AMERICAN SIGN LANGUAGE I (3 credits)**

This is the introductory course in a five-course series teaching American Sign Language. The focus will be on conversational skills and a basic understanding of the Deaf community within a cultural context. Expressive and receptive vocabulary and grammar skills will be fostered through interactive class activities.

**Prerequisite(s):** co-requisite SPED 1114 ASL Lab

**SPED 1114 AMERICAN SIGN LANGUAGE I LAB (1 credit)**

This is the co-requisite lab course for SPED 1110, American Sign Language I. Students will meet weekly in the ASL Lab interacting in a small group setting with a Deaf mentor.

**Prerequisite(s):** Co-requisite: SPED 1110

**SPED 1120 AMERICAN SIGN LANGUAGE II (3 credits)**

This is the second course in a five course series teaching American Sign Language. Candidates will continue to develop the use of body language/mime, basic sentence types, manual alphabet, manual numbers/number systems, and intermediate vocabulary.

**Prerequisite(s):** SPED 1110 and SPED 1114 with a grade of C or higher; 2.5 minimum GPA; Co-requisite: SPED 1124

**SPED 1124 AMERICAN SIGN LANGUAGE II LAB (1 credit)**

This is the co-requisite lab course for SPED 1120, American Sign Language II. Students will meet weekly in the ASL Lab interacting in a small group setting with a Deaf mentor.

**Prerequisite(s):** Minimum 2.5 GPA; SPED 1110 and SPED 1114 with a grade of C or higher; Co-requisite: SPED 1120.

**SPED 1500 INTRODUCTION TO SPECIAL EDUCATION (3 credits)**

This course is designed to help students explore issues and perspectives related to children, adolescents, and young adults with a variety of ability and disability experiences. It provides an introduction to the historical factors, legislation, terminology, etiology, characteristics that are commonly encountered when addressing the needs of diverse students with disabilities ranging from mild, moderate to severe.

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** Social Science General Education course and U.S. Diversity General Education course

**SPED 2100 PROFESSIONALISM & ETHICS OF INTERPRETING (3 credits)**

This survey course provides an introduction to the profession and ethics of sign language interpreting. The student learns what is expected of an interpreter (roles, functions, responsibilities) and applies this knowledge to a variety of settings. Information about the history of the profession, professional organizations, and settings where interpreters work is presented. Students will be introduced to Demand/Control Schema as a foundation for assessment ethical scenarios.

**Prerequisite(s):** Minimum 2.75 GPA and/or special permission from the instructor.

**SPED 2110 AMERICAN SIGN LANGUAGE III (3 credits)**

This course is a continuation and elaboration on ASL I and ASL II. Proper ASL vocabulary, syntax, semantics, and pragmatics will be expanded both receptively and expressively. This course provides exposure to idiomatic language through conversation, narration, and storytelling.

**Prerequisite(s):** Minimum 2.5 GPA; SPED 1120 and SPED 1124 with a grade of C or higher; co-requisite: SPED 2114.

**SPED 2114 AMERICAN SIGN LANGUAGE III LAB (1 credit)**

This is the co-requisite lab course for SPED 2110, American Sign Language III. Students will meet weekly in the ASL Lab interacting in a small group setting with a Deaf mentor.

**Prerequisite(s):** Minimum 2.5 GPA; SPED 1120 and SPED 1124 with a grade of C or higher; co-requisite: SPED 2110.

**SPED 2120 AMERICAN SIGN LANGUAGE IV (3 credits)**

This is the fourth course in the five-course series of American Sign Language. Proper ASL vocabulary, syntax, semantics, and pragmatics will be expanded both receptively and expressively. This course will increase students' competence using ASL through conversation, narration, and storytelling with additional awareness of cultural behaviors, rules of discourse and dialectal variations in ASL.

**Prerequisite(s):** Minimum 2.5 GPA; SPED 2110 and SPED 2114 with a grade of C or higher; co-requisite: SPED 2124.

**SPED 2124 AMERICAN SIGN LANGUAGE IV LAB (1 credit)**

This is the co-requisite lab course for SPED 2120, American Sign Language IV. Students will meet weekly in the ASL Lab interacting in a small group setting with a Deaf mentor.

**Prerequisite(s):** Prerequisites: minimum 2.5 GPA; SPED 2110 and SPED 2114 with a grade of C or higher. Corequisite: SPED 2120

**SPED 2200 DEAF STUDIES (3 credits)**

This is an introductory course which surveys historical, psychological, and sociological aspects of deafness. This course introduces students to aspects of Deaf Culture and the Deaf Community. It will also examine current issues and trends and future directions in the education of children who are deaf or hard of hearing. Basic concepts, theories, research, and philosophical debates are explored through assigned readings, independent work, and classroom activities.

**Prerequisite(s):** Minimum 2.75 GPA.

**Distribution:** U.S. Diversity General Education course

**SPED 2300 SPECIAL EDUCATION LAW & INDIVIDUAL EDUCATION PROGRAMS (3 credits)**

This course provides an overview of special education policy and law with an emphasis on components of individual education programs (IEPs), the special education referral process, and preparing for IEP meetings. Content knowledge will include IEP components and their function. Students will apply this knowledge to IEP component writing and development practice.

**Prerequisite(s):** SPED 1500

**SPED 2550 HEALTH AND WELL-BEING OF INFANTS AND TODDLERS (3 credits)**

This course is designed to help students gain knowledge and skills that will enable them to design curricula, create supportive environments, and provide effective learning opportunities to promote the healthy development of infants and young children. There will be an emphasis on effective and culturally responsive collaboration with families and caregivers. This course includes a field experience in programs that serve infants/toddlers and their families.

**Prerequisite(s):** Admission to Teacher Preparation Program and TED 2250. Not open to non-degree graduate students.

**SPED 3000 SPECIAL STUDIES (1-3 credits)**

This course is designed to allow candidates to pursue independent study of a topic under the direction and guidance of a faculty member. Topics studied and the nature of the learning activities is mutually agreed upon by the candidate and instructor.

**Prerequisite(s):** Permission by instructor

**SPED 3020 EFFECTIVE DATA COLLECTION FOR INSTRUCTIONAL DECISIONS IN SPECIAL EDUCATION (3 credits)**

This is a course on formal and informal assessment for Special Education. Candidates will learn how to collect assessment data to be used for data based decision making.

**Prerequisite(s):** SPED 1500 and TED 2400, Co-requisite SPED 4640 & SPED 4000 and 2.75 NU GPA.

**SPED 3100 ENGLISH/ASL COMPARATIVE LINGUISTICS (3 credits)**

This course offers a study of the fundamental concepts of linguistics and its application to the study of American Sign Language. Candidates will compare and contrasting English and American Sign Language structure. Focus will be on the fundamental areas of linguistic inquiry, which include phonology, morphology, syntax, semantics, and the use of language. Using current research, candidates will begin to think critically about the structure of ASL and its recognition as a language. Candidates will be expected to translate between English and signed languages to deepen understanding the study of linguistics. A video will supplement the textbook by providing examples of signs/concepts discussed in the course.

**Prerequisite(s):** Minimum 2.75 GPA; SPED 3110 ASL V; SPED 3114 ASL V Lab; or demonstrated proficiency.

**SPED 3110 AMERICAN SIGN LANGUAGE V (3 credits)**

As the fifth course in ASL, students will be able to communicate fluently with native ASL users. Additional linguistic principles will be presented at an advanced level and complex grammatical structures will be utilized in presentations. This course will continue to explore issues of linguistic code-switching, and regional variations in ASL.

**Prerequisite(s):** Minimum 2.75 GPA; SPED 2120 and SPED 2124 with a grade of B- or higher; co-requisite: SPED 3114.

**SPED 3114 AMERICAN SIGN LANGUAGE V LAB (1 credit)**

This is the co-requisite lab course for SPED 3110, American Sign Language V. Students will meet weekly in the ASL Lab interacting in a small group setting with a Deaf mentor.

**Prerequisite(s):** Minimum 2.75 GPA; SPED 2120 and SPED 2124 with a grade of B- or higher; co-requisite: SPED 3110. Not open to non-degree graduate students.

**SPED 3120 ACADEMIC INTERPRETING (3 credits)**

In this course candidates will focus on skills required for interpreting in a variety of academic settings. Candidates will learn to produce appropriate and equivalent interpreted messages between signed and spoken communication. Candidates will observe and analyze spoken and signed language used in the classroom and in extracurricular activities. Candidates will understand the interpreter's role as part of the educational team and how that impacts their work with students. Also included will be review and deeper exploration of communication styles, modes and language used by children.

**Prerequisite(s):** GPA 2.75 or better. SPED 3110 and SPED 3114 with B- or higher or special permission from the instructor. Score of intermediate or higher on the ASL Proficiency Interview or Sign Language Proficiency Interview. Not open to non-degree graduate students.

**SPED 3130 COMMUNITY INTERPRETING (3 credits)**

In this course students will learn skills in producing equivalent ASL and/or English messages in both consecutive and simultaneous interpreting. Students will interpret for adults and children moving from monologues to dialogues developing fluency, speed and accuracy. Students will continue to develop their English vocabulary, ASL vocabulary, interpreting analysis skills and strategies for team interpreting within the genres of medical and mental health, employment and vocational settings, social services, business and insurance.

**Prerequisite(s):** GPA 2.75 or better. SPED 3110 and SPED 3114 or special permission from the instructor. Score of intermediate or higher on the ASL Proficiency Interview or Sign Language Proficiency Interview.

**SPED 3140 DISCOURSE ANALYSIS AND SOCIOLINGUISTICS FOR INTERPRETERS (3 credits)**

During the course students will analyze language use in spoken English and American Sign Language (ASL) so that features of language use rise to the level of explicit awareness. Students collect, transcribe, and analyze various speech activities while reading and discussing theoretical notions underlying language use.

**Prerequisite(s):** Minimum 2.75 GPA; SPED 2110 and SPED 2114 with a grade of B- or higher; or special permission from the instructor. Not open to non-degree graduate students.

**SPED 3150 COGNITIVE PROCESSING IN ASL AND ENGLISH (3 credits)**

This course presents practice of cognitive skills used in the process of interpreting from English and the process of interpreting from ASL. Skills include visualization, prediction, listening, memory, abstracting, closure, dual tasking, and processing time. Integration and application of these skills will lead to a self-monitoring process that will allow for self-assessment and commentaries on work performed.

**Prerequisite(s):** Minimum cumulative 2.75 GPA, and SPED 2120 and SPED 2124 with a grade of B- or higher; or instructor permission. Not open to non-degree graduate students.

**SPED 3250 SOCIAL, EMOTIONAL, AND BEHAVIORAL NEEDS OF CHILDREN WITH AUTISM AND DEVELOPMENTAL DISABILITIES (3 credits)**

This course will address the social, emotional, and behavioral needs of children with Autism and Developmental Disabilities. The course will cover topics related to etiology, assessment, prevention, and intervention strategies to support the social, emotional, and behavioral needs of students with Autism and Developmental Disabilities in inclusive settings.

**Prerequisite(s):** SPED 1500 and TED 2400

**SPED 3800 DIFFERENTIATION AND INCLUSIVE PRACTICES (3 credits)**

This course is designed to examine characteristics of students with various learning needs and how to apply principles of Universal Design for Learning (UDL) to meet their needs in an inclusive environment. This course will expand the special education content knowledge of general education teachers so they can meet the needs of all students by planning lessons using the UDL framework. The purpose of this course is for general education teacher candidates to gain content knowledge about special education policies and procedures to utilize various educational, emotional, and social accommodations necessary to provide unique and effective educational or alternative responses for students with various learning needs.

**Prerequisite(s):** TED 2400 prior or concurrent or MUS 3600; Minimum 2.75 GPA. Not open to non-degree graduate students.

**SPED 4000 PRACTICUM IN SPECIAL EDUCATION (3 credits)**

This practicum will examine special education methods, techniques and strategies used with children and youth with disabilities in a variety of K-12 school settings. Classroom practice and application of instructional planning and implementation, assessment techniques and behavior management will be emphasized. Collaboration and consultation models will also be included in this experience.

**Prerequisite(s):** SPED 1500 & TED 2400; GPA 2.75 or higher. Co-requisites: SPED 3020 & SPED 4640. Not open to non-degree graduate students.

**SPED 4010 MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (3 credits)**

This course explores the role that educators and school mental health professionals play in identifying the risk factors and warning signs of children and youth with mental health concerns. Students will understand the risk and protective factors at the individual, family, school, and community level as related to children and youth's mental health. The course will provide an overview of externalizing and internalizing disorders as well as school-based and community-based treatments and interventions. (Cross-listed with COUN 4010, COUN 8016, SPED 8016).

**Prerequisite(s):** SPED 1500 or SPED 3800, TED 2300 prior to or concurrent, Minimum 2.75 GPA. Not open to non-degree graduate students.

**SPED 4040 WORKSHOP IN SPECIAL EDUCATION OR SPEECH-LANGUAGE PATHOLOGY (1-6 credits)**

The purpose of this course is to provide workshops or special seminars in the area of special education and communication disorders. This course will prepare graduate candidates as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world. (Cross-listed with SPED 8046).

**SPED 4110 SIGNED ENGLISH AND OTHER SYSTEMS (3 credits)**

This course examines the communication methods and modes used in some educational settings with people who are deaf or hard of hearing. Candidates will gain understanding and specific skills in Simultaneous Communication, Total Communication, Signing Exact English, and Conceptually Accurate Signed English. Information will be shared about the latest technology and resources available to aid communication in the classroom.

**Prerequisite(s):** Minimum 2.75 GPA; SPED 3110 and SPED 3114 with a grade of B- or higher; or special permission from the instructor.

**SPED 4150 READING AND WRITING INSTRUCTION FOR STUDENTS WITH DISABILITIES (3 credits)**

This course is designed to provide preservice teacher candidates skills and strategies for instructing students with high incidence disabilities that struggle to acquire literacy skills. Emphasis is placed on the science of reading, reading development and diagnosis and assessment of specific reading and writing difficulties to determine effective instructional strategies. Instructional strategies will address modifications directed at teaching oral language, reading, writing, and spelling skills.

**Prerequisite(s):** SPED 1500 and TED 2400 and 2.75 NU GPA. Not open to non-degree graduate students.



**SPED 4180 INTERPRETING IN SPECIALIZED SETTINGS (3 credits)**

This course focuses on interpreting/transliterating for special populations in a variety of specialized settings. Video relay, Deaf-Blind, Mental Health, Legal, Religious, Multi-cultural and Theatrical settings are among the specialized settings in which interpreting students will participate in additional training.

**Prerequisite(s):** GPA 2.75 or better. SPED 3110 and SPED 3114 with B- or higher or special permission from the instructor. Score of intermediate or higher on the ASL Proficiency Interview or Sign Language Proficiency Interview. Not open to non-degree graduate students.

**SPED 4230 LANGUAGE DEVELOPMENT AND DISORDERS FOR TEACHERS (3 credits)**

This course is designed to introduce the candidate to the nature and structure of language, current theories of language, normal first and second language development, language disorders, multicultural issues in language assessment, and contemporary classroom management of language deficits. The topics will be examined from an educational perspective to enhance the teachers knowledge of language and to facilitate classroom management of language deficits exhibited by exceptional children in grades pre-K through 12. (Cross-listed with SPED 8236).

**Prerequisite(s):** Minimum 2.75 GPA; SPED 1500 or ECI major; TED 2300 or TED 2380 or permission of the instructor

**SPED 4240 TEACHING/INTERPRETING LANGUAGE TO DEAF/HARD OF HEARING (5 credits)**

This course will examine specific programs, methods, and techniques employed in teaching and developing language with deaf and hard of hearing children from primary through secondary levels. Current theories and practices in reading and language arts instruction will be examined. This course will also present methods for assessing reading and language problems in deaf/hard of hearing children, making adaptations and modifications in curriculum, integrating technology, and including parents in the instructional process. The sign language interpreter plays a vital role to a student who is deaf or hard of hearing because interaction is so important. When an interpreter is fluent in the use of language(s), the interpreter facilitates the student's ability to learn the language. An experienced interpreter uses knowledge of language development to make modifications to his/her interpreting approach.

**Prerequisite(s):** GPA 2.75 or better and SPED 3110 and SPED 3114 with a grade of B- or higher, or special permission from the instructor. Background check using UNO vendor.

**SPED 4280 TEACHING AMERICAN SIGN LANGUAGE AS A WORLD LANGUAGE (3 credits)**

This course provides a hands-on experience in the design and implementation of ASL instruction and curriculum. The course will address methods, materials, program evaluation, and teaching approaches for preparing professional instructors of ASL.

**Prerequisite(s):** Min 2.75 GPA & proficiency in ASL. Prof shown by one of the following: complete ASL I-V courses, personal interview w/instructor, or a min level of 3 on ASL Proficiency Interview or Sign Comm Proficiency Interview. Not open to non-degree grad students.

**SPED 4310 VOICE-TO-SIGN (3 credits)**

This course begins consecutively interpreting monologues from the source language (English) to the target language (ASL). Students will listen to entire English monologues, process them, analyze them, and then choose appropriate ASL to match the message. The course provides instruction on refining and enhancing voice-to-sign skills, specifically simultaneously producing equivalent ASL messages from spoken English source messages. Students will learn to sign simultaneously and consecutively when viewing video or listening to audio of native English speakers from a variety of settings.

**Prerequisite(s):** GPA 2.75 or better and SPED 3110 and SPED 3114 with a grade of B- or higher, or special permission from the instructor. Score of intermediate or higher on either the ASL Proficiency Interview or the Sign Language Proficiency Interview.

**SPED 4320 SIGN-TO-VOICE (3 credits)**

This course provides instruction on refining and enhancing sign-to-voice skills, specifically simultaneous sign-to-voice transliterating and interpreting. Students will learn to voice simultaneously and consecutively when viewing video of native signers who use a variety of signing modalities to communicate. Students will develop the ability to produce an equivalent English message from ASL source messages.

**Prerequisite(s):** GPA 2.75 or better and SPED 3110 and SPED 3114 with a grade of B- or higher, or special permission from the instructor. Score of intermediate or higher on either the ASL Proficiency Interview or the Sign Language Proficiency Interview.

**SPED 4350 TEACHING CONTENT SUBJECTS TO DEAF/HARD OF HEARING (4 credits)**

This course will describe, investigate, and put into practice instructional strategies employed in developing knowledge and concepts in social studies, science, and mathematics. The scope of the course will be preschool through high school. Curricula and materials used with K-12 students who are deaf or hard of hearing will be reviewed and evaluated.

**Prerequisite(s):** Minimum 2.75 GPA; EDUC 2510 or SPED 1500; TED 2400 or permission of the instructor.

**SPED 4640 METHODS AND MATERIALS IN SPECIAL EDUCATION (3 credits)**

This course is designed to describe the various instructional methods that have been used successfully in supporting students with disabilities in a variety of settings. This course is also intended to provide pre-service and in-service candidates with knowledge and evidence-based teaching strategies essential for modifying the learning environment and individualizing instruction for students with disabilities. In addition, teaching methods will focus on academic curriculum lesson planning, development of IEPs, selection of instructional methods and materials, and universal design for learning (UDL).

**Prerequisite(s):** SPED 1500, TED 2400 and 2.75 NU GPA and passing Praxis Core scores (Math, Reading and Writing); Co-requisite courses SPED 3020 & SPED 4000. Not open to non-degree graduate students.

**SPED 4650 TRANSITION PLANNING (3 credits)**

Curriculum oriented for teachers and related professionals to work with the career development and transition of individuals with disabilities within a multicultural and global society. Includes information for elementary through adulthood with emphasis on transition from high school to community living. (Cross-listed with SPED 8656)

**Prerequisite(s):** SPED 1500. Not open to non-degree graduate students.

**SPED 4700 CLINICAL PRACTICE IN SPECIAL EDUCATION (6 credits)**

This course provides candidates with experience teaching students with exceptionalities. Observation, participation, and actual teaching in an individually selected placement will be a part of the candidate's involvement in this course. This course is intended for candidates who are completing a dual endorsement program (special education and another endorsement).

**Prerequisite(s):** GPA minimum of 2.75 and completion of all required coursework in special education. Co-Requisite: TED 4650. Not open to non-degree graduate students.

**SPED 4710 INTERACTIONS AND COLLABORATION (3 credits)**

This course is offered to investigate the building blocks of collaboration. Effective interpersonal communication and collaboration skills are presented as the foundation necessary to build relationships among school personnel, families and community members.

**Prerequisite(s):** SPED 1500 and TED 2400 and 2.75 NU GPA

**SPED 4720 CLINICAL PRACTICE IN SPECIAL EDUCATION (12 credits)**

This course provides candidates with a practical experience teaching students with disabilities. Observation, participation, and actual teaching in an individually selected placement will be a part of the candidate's involvement in this course.

**Prerequisite(s):** GPA minimum of 2.75, Completion of all required course work in special education.



**SPED 4724 SPECIAL EDUCATION CLINICAL TEACHING ORIENTATION (0 credits)**

This course is the special education clinical teaching orientation that is paired with the Clinical Teaching in Special Education course.

**Prerequisite(s):** GPA = 2.75 or better, Completion of all required course work in special education. Co-requisite SPED 4720 or SPED 4730

**SPED 4730 ADVANCED CLINICAL PRACTICE IN SPECIAL EDUCATION (3 credits)**

A second semester of special education clinical practice experience in a placement working with exceptional children. Observation, participation and actual teaching will be part of the candidate's experience.

**Prerequisite(s):** GPA minimum of 2.75; SPED 4720 and permission

**SPED 4740 EDUCATIONAL INTERPRETING PRACTICUM AND SEMINAR (6 credits)**

The practicum candidate will work with a mentor to begin developing professional relationships while developing the ability to interpret simultaneously signed and spoken messages. Candidates will also share experiences in seminars with an instructor where discussion will focus on linguistic issues in interpretation, ethical dilemmas, and situational concerns.

**Prerequisite(s):** GPA minimum of 2.75, Completion of SPED 3120, SPED 3130, SPED 4180, SPED 4240, SPED 4310, and SPED 4320 with grades of B- or higher.

**SPED 4760 COMMUNITY INTERPRETING PRACTICUM AND SEMINAR (6 credits)**

The practicum candidate will work with a mentor in various community settings to begin developing professional relationships while developing the ability to interpret simultaneously signed and spoken messages. Candidates will also share experiences in seminars with an instructor where discussion will focus on linguistic issues in interpretation, ethical dilemmas, and situational concerns.

**Prerequisite(s):** GPA minimum of 2.75, Completion of SPED 3120, SPED 3130, SPED 4180, SPED 4240, SPED 4310, and SPED 4320 with grades of B- or higher. Not open to non-degree graduate students.

**SPED 4800 SOCIAL AND EMOTIONAL DEVELOPMENT OF CHILDREN AND YOUTH (3 credits)**

This course is designed to prepare teacher candidates and graduate candidates with the understanding of the psychological, biological and environmental factors that affect the social-emotional development of children and adolescents. Emphasis is placed on the interaction of these factors for children with exceptional learning needs and the implications for the learning environment. (Cross-listed with SPED 8806).

**Prerequisite(s):** SPED 1500 or EDUC 2510, TED 2300, Minimum 2.75 GPA

**SPED 4810 BEHAVIOR INTERVENTIONS AND SUPPORTS (3 credits)**

This course introduces a variety of practical interventions that teachers may use to support the positive classroom behavior of all students within a tiered model. Universal, targeted, and individualized strategies are presented. (Cross-listed with SPED 8816).

**Prerequisite(s):** SPED 1500 or SPED 3800 and TED 2400 prior to or concurrent and 2.75 NU GPA

**SPED 4820 EARLY CHILDHOOD INCLUSIVE EDUCATION SYSTEMS, POLICY, AND ADVOCACY (1 credit)**

The purpose of this course is to provide an overview of the history and perspectives of key developmental theories, laws, and policies related to inclusive early childhood education. Particular attention will be paid to culturally responsive approaches to ECIE, local, state, federal, and global policy, professional roles, ethics, and advocacy. Emphasis is on current research, theory, and evidence-based practice.

**Prerequisite(s):** TED 2250. Not open to non-degree graduate students.

**SPED 4830 ASSESSMENT IN EARLY CHILDHOOD INCLUSIVE EDUCATION (3 credits)**

This course is designed to help students develop skills for effective and culturally responsive assessment and evaluation of infants, toddlers, and young children. Such assessment is vital for understanding developmental needs of young children, planning appropriate curriculum and interventions, identifying children's special needs, evaluating early childhood programs, and providing accountability information to funders and stakeholders.

**Prerequisite(s):** Admission to Educator Preparation program, TED 2250. Not open to non-degree graduate students.

**SPED 4860 RESPONSIVE AND REFLECTIVE TEACHING IN EARLY CHILDHOOD (3 credits)**

This course will prepare early childhood inclusive education majors to plan and deliver supports to a diverse array of young children (birth to age 8) and their families. Candidates will be trained in evidence-based practices used for promoting language, problem-solving, motor skills, adaptive behavior, play, and social/emotional growth in young children. There is an emphasis on anti-bias approaches to education, as well as educators' reflections upon their practices.

**Prerequisite(s):** Admission to the Educator Preparation program, TED 2250. Not open to non-degree graduate students.

**SPED 4870 PRACTICUM WITH INFANTS AND TODDLERS (3 credits)**

This advanced practicum is a guided experience for candidates pursuing an emphasis in the area of Early Childhood Inclusive Education (ECIE) birth through age 3. Candidates will be required to demonstrate competencies related to promoting the development of infants and toddlers, and the skills and confidence of their families/caregivers. This is the last practicum course prior to the clinical practice semester.

**Prerequisite(s):** Completion of ECIE undergraduate courses: TED 2250, TED 2350, SPED 4230, TED 4250, SPED 4830, SPED 4860; GPA 2.75 or higher. Co-requisites: TED 4210 and SPED 4850. Not open to non-degree graduate students.

## Statistics (STAT)

### Statistics Undergraduate Courses

**STAT 1100 DATA LITERACY AND VISUALIZATION (3 credits)**

Designed to help students become familiar with different types of data that are available in business, non-profit and governmental organizations. Students will learn basic data organization and manipulation as well as appropriate visualization techniques including charts, maps, and dashboards using cutting edge software tools. Students will apply this knowledge and skills to real-world data and develop skills in presentation of research results, strategic decision making and forecasting analysis.

**Distribution:** Math

**STAT 1530 ELEMENTARY STATISTICS (3 credits)**

An elementary introduction to the basic concepts of probability, descriptive statistics, and statistical inference, including point estimation, confidence intervals, and hypotheses testing.

**Prerequisite(s):** One of the following within the last two years: ALEKS score of at least 3, ACT Math sub score at least 19, Math SAT at least 500, Accuplacer score at least 3, or MATH 1000 or MATH 1210 (each with a C- or better)

**Distribution:** Math

**STAT 3000 STATISTICAL METHODS I (3 credits)**

An introduction to descriptive statistics, measures of central value and dispersion, probability and distributions, population and sample, simple linear regression, statistical inference: point estimation, confidence intervals, hypotheses testing, two population comparison, goodness-of-fit tests, analysis of variance. Statistical software like Minitab or Excel will be utilized in the course. (Cross-listed with STAT 8005).

**Prerequisite(s):** MATH 1220 or MATH 1300 or MATH 1320 or equivalent with a grade of C- or better, or permission of instructor

**STAT 3800 APPLIED ENGINEERING PROBABILITY AND STATISTICS (3 credits)**

An introduction to the application of probability and statistics to engineering problems. Topics include: probability and probability distributions, mathematical expectation, distribution of random variables, binomial, Poisson, hypergeometric, gamma, normal, and t-distributions, Central Limit Theorem, confidence intervals, hypothesis testing. If time allows, some linear regression and contingency tables. Credit for both MATH 4740 and STAT 3800 will not be given. (Cross-listed with STAT 8805)

**Prerequisite(s):** MATH 1970

**STAT 4410 INTRODUCTION TO DATA SCIENCE (3 credits)**

Topics covered in this course include Data Technology, Methods of gathering and cleaning structured or unstructured data, Exploratory data analysis & Dynamic and interactive data visualization, Modeling data for prediction, forecasting or classification. (Cross-listed with STAT 8416)

**Prerequisite(s):** MATH 4740 with at least C- or concurrent or STAT 3800 with at least C- or permission of instructor. Students enrolling in this course should be comfortable with computer programming & have knowledge of data structures & preliminary statistical methods.

**STAT 4420 EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION (3 credits)**

Topics covered in this course include Exploratory Data Visualization for categorical/qualitative single/multivariate data, Grammar of Graphics, Organizing Data for Visualization, Methods of Displaying Data that include dynamic and interactive visualization, Visual Diagnostics of Statistical Models and Visual Statistical Inference. Students planning to enroll in this course should be comfortable with computer programming and have knowledge of data structures and preliminary statistical methods. (Cross-listed with STAT 8426)

**Prerequisite(s):** STAT 3800 or STAT 8805 or MATH 4740 or MATH 8746 with a grade of C- or better or another introductory probability/statistics course with a grade of C- or better, and MATH 3200 or CSCI 1620 with a grade of C- or better, or permission of instructor.

**STAT 4430 LINEAR MODELS (3 credits)**

This course introduces students to linear statistical models. Topics will include: simple linear regression models, multiple linear regression models, ANOVA models including one way ANOVA, randomized block design, other designs, logistic regression models, Poisson regression models, bootstrapping/resampling models, and survival analysis. The course may also include mixed models and/or survival models. Some necessary linear algebra and mathematical statistics ideas will be reviewed at the beginning of the course. Computer software will be extensively used. (Cross-listed with STAT 8436)

**Prerequisite(s):** MATH 4750 or MATH 8756 w/ a C- or better or STAT 3800 or STAT 8805 w/ a C- or better or instructor permission based on students' having taken a basic statistics course w/ a grade of C- or better & having at least a basic knowledge of calculus.

**STAT 4440 TIME SERIES ANALYSIS (3 credits)**

The objective of this course is to learn and apply statistical methods for the analysis of data that have been observed over time. Topics covered include: Models for Stationary and Non-Stationary Time Series, Model Specification, Parameter Estimation, Model Diagnostics, Forecasting, Seasonal Models, Time Series Regression, and Spectral Analysis. Statistical software will be used. (Cross-listed with STAT 8446)

**Prerequisite(s):** MATH 4750 or MATH 8756 w/ a grade of C- or better or STAT 3800 or STAT 8805 w/ a C- or better or another introductory probability/statistics course w/ a C- or better, or permission of instructor.

**STAT 4450 INTRODUCTION TO MACHINE LEARNING AND DATA MINING (3 credits)**

This is an introduction to machine learning and data mining which covers the following topics with an emphasis on mathematical and statistical analysis in supervised learning. Topics include machine learning workflow, evaluation metrics, validation approaches, classification models including logistic regression, decision tree, boosting, random forest, support vector machines, neural networks, Bayesian methods, etc. If time allows, text mining and unsupervised learning topics will also be introduced in the course. Statistical software will be used. (Cross-listed with MATH 4450, MATH 8456, STAT 8456)

**Prerequisite(s):** MATH 4740/8746 with a C- or better or STAT 3800/8805 with a C- or better or permission of instructor.

## Supply Chain Management (SCMT)

### Supply Chain Management Undergraduate Courses

**SCMT 3000 MANAGERIAL ACCOUNTING FOR SUPPLY CHAIN MANAGEMENT (3 credits)**

This course highlights the important role of a managerial accountant in managing a global supply chain and covers the key accounting techniques for supply chain management. (Cross-listed with ACCT 3000)

**Prerequisite(s):** ACCT 2020 with a grade of C (2.0) or better or ACCT 2000 with a grade of C (2.0) or better and cumulative GPA of 2.5 or higher. ENGL 1160 with a grade of 'C' (2.0) or better or concurrent enrollment in ENGL 1160. Not open to non-degree graduate students.

**SCMT 3410 INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (3 credits)**

Supply chain management is the design and management of business processes needed to turn raw materials from suppliers into products and services that meet the needs of the final customer. The goals of this course center around providing students with the foundations of supply chain management and effectively managing the flow of goods, information, and services to obtain sustainable competitive advantage within an industry. Students will develop critical thinking skills focused on business process analysis and the use of key performance indicators to determine operational efficiencies for all organization levels. (Cross-listed with MGMT 3410, MKT 3410).

**Prerequisite(s):** Sophomore standing; GPA of 2.0 or better; or by permission of instructor. Not open to non-degree graduate students.

**SCMT 3500 MANAGING OPERATIONS IN THE SUPPLY CHAIN (3 credits)**

The course is designed to introduce students to strategic decisions in manufacturing and service operations. Students will learn how operations integrate all other business processes for competitive advantage. The course covers current applications of quality concepts, business process reengineering, supply-chain management, lean systems, and ERP systems for business operations efficiency and effectiveness.

**Prerequisite(s):** BSAD 2130 or 3160, ENGL 1160/ENGL 1164 or concurrent enrollment in ENGL 1160/1164 each with "C" or better and 2.5 GPA

**SCMT 4060 HEALTHCARE ANALYTICS FOR BUSINESS (3 credits)**

This course will focus on the mixing of analytics and technology to develop key performance indicators that integrate and evaluate clinical, administrative, and financial performance. Concepts in this course explore the intersection of information management, performance metrics, data visualization, and result communication spanning across the healthcare ecosystem. Topics covering health outcome analysis, financial performance, developing analytic strategies, data quality and governance, and the four stages of actionable intelligence are all used to educate the advantages of leveraging analytics. (Cross-listed with BSAD 8066, HLSC 8066, MGMT 8066, MGMT 4060, SCMT 8066).

**Prerequisite(s):** MGMT 3490 or SCMT 3410; GPA of 2.5 or better; or by permission of instructor. Not open to non-degree graduate students.

**SCMT 4070 INTERNATIONAL LOGISTICS MANAGEMENT (3 credits)**

This course will focus on the logistics of international trade and how managers facilitate the flow of goods and services in import and export environments. Students will learn about infrastructure and business practices needed to manage international transportation, communications, services, and regulatory requirements. Students will develop an understanding of international terms of trade, transaction risk management, and location decisions for placement of warehouses and distribution centers. (Cross-listed with BSAD 8076, HLSC 8076, SCMT 8076).

**Prerequisite(s):** SCMT 3410; GPA of 2.5 or better; or by permission of instructor. Not open to non-degree graduate students.

**SCMT 4090 MANAGING COLLABORATIVE ENGAGEMENT (3 credits)**

This course will provide students with the opportunity to develop knowledge and strategies for leading teams, enhancing collaboration, building consensus, problem solving in teams, facilitating group processes, and designing collaborative workspaces. (Cross-listed with ACMP 4090, BSAD 8096, MGMT 4090, MGMT 8096).

**Prerequisite(s):** Junior standing or permission of instructor. Not open to non-degree graduate students.

**SCMT 4160 ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING (3 credits)**

Enterprise Resource Planning (ERP) consulting is designed to provide students foundational knowledge required to become a consultant working with enterprise systems. ERP systems are used by most organizations to manage and integrate the core functions of a business. Students will be exposed to a broad range of consulting skills that spans package selection to the implementation process. Students will work with a live instance of an ERP system focusing on the cross-functional integration of core business processes primarily in a manufacturing environment including finance, operations/supply chain, procurement, and fulfillment. The goal of the course is to provide students a foundation for careers in the area of ERP systems and consulting. (Cross-listed with ISQA 4160, ISQA 8166)

**SCMT 4170 EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT (3 credits)**

This course will focus on trends influencing supply chain management and design in the 21st century. Key concepts in this course will include contemporary opportunities and challenges in creating customer value via the supply chain with a focus on globalization and risk management. Specific topics will include the influence of the empowered customer on supply chain design, global supply chain trends, and the need for integration of technology and talent to create a competitive advantage. (Cross-listed with BSAD 8176, HLSC 8176, SCMT 8176).

**Prerequisite(s):** SCMT 3410/MKT 3410/MGMT 3410 Sustainable Supply Chain Management; Cumulative GPA of 2.5 or better; or by permission of instructor. Not open to non-degree graduate students.

**SCMT 4330 PROJECT MANAGEMENT (3 credits)**

This course focuses on the systemic exploration of planning and executing complex projects to create organizational success. Using a comprehensive understanding of principles, methodologies, and tools within project management, students will learn how to initiate critical processes, plan objectives and constraints, execute management and leadership, monitor budgets and development, and close outcomes of complex projects. Skills obtained from this course enhance individuals' ability to recognize, identify, and prioritize organizations' culture and structure to lead projects across various industries efficiently. (Cross-listed with BSAD 8336, HLSC 8336, MGMT 8336, MGMT 4330, SCMT 8336)

**Prerequisite(s):** MGMT3490 with a C or better and a 2.5 GPA; or permission of the instructor. Not open to non-degree graduate students.

**SCMT 4350 GLOBAL SOURCING AND INNOVATION (3 credits)**

This course focuses on global suppliers as partners in the development and commercialization of new products. Students will learn about open innovation and the integration of internal and external business systems in new product innovation. Students will develop an understanding of regulatory policies related to information sharing and the intellectual property rights of buyers and suppliers. (Cross-listed with BSAD 8356, HLSC 8356, SCMT 8356).

**Prerequisite(s):** SCMT 3410; GPA of 2.5 or better; or by permission of instructor. Not open to non-degree graduate students.

**SCMT 4370 SUPPLY CHAIN ANALYTICS (3 credits)**

This course focuses on integrating supply chain management through the use of key performance indicators. Key concepts in this course include data visualization, supplier performance metrics, service-dominant logic, and the supply chain for data. Specific topics include the influence of the empowered customer on supply chain metrics, using metrics to develop a competitive advantage, data-driven decision making, and the four stages of actionable intelligence. (Cross-listed with BSAD 8376, HLSC 8376, SCMT 8376).

**Prerequisite(s):** SCMT 3410 with a grade of C or above, at least a cumulative GPA of 2.5, or permission of instructor. Not open to non-degree graduate students.

**SCMT 4380 INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT (3 credits)**

This course will focus on the strategic procurement of products and services in order to gain a competitive advantage through integrated supply management. Students will learn about strategic supply management, contract negotiation, and supplier quality management. Students will develop an understanding of supplier performance management through the use of supply chain information systems. (Cross-listed with BSAD 8386, HLSC 8386, MKT 4380, SCMT 4380, SCMT 8386).

**Prerequisite(s):** SCMT 3410; GPA of 2.5 or better; or by permission of instructor. Not open to non-degree graduate students.

**SCMT 4440 QUALITY MANAGEMENT (3 credits)**

This course approaches Quality Management from a practical quantitative-oriented point of view. Throughout this course, students will be introduced to all five steps of the six sigma continuous process improvement (Define, Measure, Analyze, Implement, and Control). The assignments are designed in project-based formats, in which students will initiate their own process improvement project and follow through with each step for a final grade. Upon the completion of this course, students will understand the ever-evolving nature of quality and quality management. They will also have practical experience in initiating and managing process improvement project at small scale and apply six sigma in their future work. (Cross-listed with BSAD 8446, MGMT 4440).

**Prerequisite(s):** MGMT 3490 with a C or better and a 2.5 GPA; or permission of instructor.

**SCMT 4450 MANAGERIAL NEGOTIATION STRATEGIES (3 credits)**

This course introduces students to the theory and practice of negotiation across various organizational settings. The ability to successfully negotiate an outcome is an important aspect of management and leadership. Negotiation can be used to determine multiparty relationships, manage conflict resolution, and improve organizational outcomes. Using a combination of conceptual frameworks, roleplaying exercises, and debriefing opportunities, the design of this course is structured to help students understand the power and influence negotiation has over the successful outcomes of managers, leaders, and organizations. (Cross-listed with BSAD 8456, HLSC 8456, MGMT 4450, MGMT 8456, SCMT 8456).

**Prerequisite(s):** MGMT 3490 with a grade of C or above, at least a cumulative GPA of 2.5, or permission of instructor.

**SCMT 4460 SUPPLY CHAIN INTEGRATION (3 credits)**

This course will focus on the integration of internal and external systems designed to maximize the efficiency and effectiveness of supply chain networks developed by industrial organizations, government agencies, and not-for-profit organizations. Key concepts will include supply chain design, trends in technology, and cross-functional collaboration, coordination, and communication along the value chain. Specific topics will include the influence of empowered customers on supply chain integration, global supply chain trends, closed-loop supply chains, and the challenges and benefits of integrating technology and talent in the workplace.

**Prerequisite(s):** SCMT 3410/MKT 3410/MGMT 3410 Sustainable Supply Chain Management; Cumulative GPA of 2.5 or better; or by permission of instructor. Not open to non-degree graduate students.

**SCMT 4540 SUPPLY CHAIN MANAGEMENT INTERNSHIP (1-3 credits)**

Students engage in part-time employment in supply chain management to gain relevant business experience and to practice the skills and concepts learned in the classroom. Work assignment must encompass duties related to the field of supply chain management (i.e., purchasing, scheduling, supplier relations, materials management, or logistics). (Cross-listed with MKT 4540).

**Prerequisite(s):** SCMT 3410, GPA of 2.5 or better, AND permission of instructor. Not open to non-degree graduate students.

**SCMT 4550 COOPERATIVE EDUCATION IN BUSINESS ADMINISTRATION (3 credits)**

Students participate in discipline-specific experiential learning activities designed to integrate academic concepts with real-world workplace experiences. The course is focused on the development and application of observation and critical thinking skills to make informed contributions to their organization. Students will create a body of work that will be assessed through self-reflection of the student, feedback from the employer, and evaluation by the instructor. The overall goal is to create a portfolio of work that demonstrates student achievements during the cooperative education experience. (Cross-listed with MGMT 4550).

**Prerequisite(s):** Full-time (Summer-only) 3 Credit Hours, Maximum COOP Credit Hours 15, MKT/SCMT/MGMT 3410 Introduction to Supply Chain Management and GPA of 2.5 or better; AND by permission of the instructor.

**SCMT 4560 COOPERATIVE EDUCATION IN BUSINESS ADMINISTRATION (6-12 credits)**

Students participate in discipline-specific experiential learning activities designed to integrate academic concepts with real-world workplace experiences. The course is focused on the development and application of observation and critical thinking skills to make informed contributions to their organization. Students will create a body of work that will be assessed through self-reflection of the student, feedback from the employer, and evaluation by the instructor. The overall goal is to create a portfolio of work that demonstrates student achievements during the cooperative education experience. (Cross-listed with MGMT 4560).

**Prerequisite(s):** Full-time (Fall and Spring Semesters only) 6-12 Credit Hours, Maximum COOP Credit Hours 15, MKT 3410/SCMT 3410/MGMT 3410 and GPA of 2.5 or better; AND by permission of the instructor.

## Sustainability (SUST)

### Sustainability Undergraduate Courses

**SUST 1000 INTRODUCTION TO SUSTAINABILITY (3 credits)**

Introduction to Sustainability explores from multiple perspectives the interconnectedness of earth's physical, ecological, and human systems, and how to maintain and improve earth's resources and systems for current and future generations.

**Distribution:** Global Diversity General Education course and Social Science General Education course

**SUST 4090 SPECIAL TOPICS IN SUSTAINABILITY (3 credits)**

This is a lecture and/or laboratory course pertaining to a specific topic in sustainability and not available in the regular curriculum. May be repeated as topics change.

**Prerequisite(s):** Junior or senior standing or permission of instructor. Other pre-requisites may apply: please consult with instructor of course.

**SUST 4390 THE NATURE OF THE PAST: AMERICAN ENVIRONMENTAL HISTORY, PRE-HISTORY TO THE PRESENT (3 credits)**

This course will introduce students to the field of American Environmental History. Students will engage with literature produced by scholars who, broadly speaking, research and write about the many ways in which humans have shaped nature and, conversely, how nature has shaped humans over time. We will focus on the myriad peoples and cultures that have thrived in what is presently the United States and how these peoples have interacted with their physical environments in a multitude of contexts, from the transformation of ecosystems for economic purposes, to the cultural and scientific ideas that have shaped human notions of the natural world, to the ways in which people have mobilized governments to transform the environment. (Cross-listed with HIST 4390, HIST 8196, ENVN 4390).

**SUST 4800 SUSTAINABILITY INTERNSHIP (1-6 credits)**

This course offers students an opportunity to experience sustainability studies through direct involvement in career-oriented sustainability organizations. The host organization must be approved in advance in consultation with the internship coordinator. This course may be repeated for a maximum of six credit hours.

**Prerequisite(s):** Permission of instructor.

**SUST 4900 INDEPENDENT STUDY (1-3 credits)**

Specially planned readings or independent research in a well-defined field within sustainability carried out under the supervision of a faculty member. As independent study courses are intended to enrich a student's regular academic program, they may not normally be taken as substitutes for scheduled classroom courses of the same nature. May be repeated, for credit, up to six hours, under a different topic.

**Prerequisite(s):** Permission of instructor required.

## Teacher Education (TED)

### Teacher Education Undergraduate Courses

**TED 1010 INTRODUCTION TO EDUCATION (3 credits)**

The course will provide an introduction to the education profession through career exploration and initial exposure to the dynamics of PK-12 classroom teaching. The course will provide an overview of ethics and professionalism, pre-service preparation, societal influences, classroom practices, and the governance structures which impact teachers and schools. The course has a required field experience.

**Prerequisite(s):** Not open to non-degree graduate students.



**TED 2050 INTRODUCTION TO TEACHING ENGLISH AS A SECOND LANGUAGE (3 credits)**

This course offers teacher candidates an introduction to the linguistic, social, political, and cultural factors that impact the teaching of Multilingual Learners (MLs) entering the United States school system. As dedicated practitioners, reflective scholars, and responsible citizens, undergraduate students will study best practices for MLs in the mainstream classroom that promotes language and cultural understanding among students and teachers.

**Prerequisite(s):** Not open to non-degree graduate students.

**TED 2060 EQUITY, LANGUAGE, AND CULTURAL LITERACY (3 credits)**

This course explores the relationship among equity, language, and cultural literacy and its implications for programming and advocacy within school and community contexts. As dedicated practitioners, reflective scholars, and responsible citizens, undergraduate students study the impact these relationships have for historically underrepresented groups in the United States.

**Prerequisite(s):** Not open to non-degree graduate students.

**TED 2100 EDUCATIONAL FOUNDATIONS (3 credits)**

The course will provide prospective teacher candidates with the philosophical, ethical, historical, and social foundations that will enable them to understand their role as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world. Also, the prospective teacher candidates will study and understand the national and state standards relevant to P-12 education and to teacher preparation in the USA. Each prospective candidate will acquire competency in using educational technologies such as Internet based course delivery systems, database software, and digital portfolios.

**Prerequisite(s):** 2.0 GPA

**Distribution:** Writing in the Discipline Single Course

**TED 2160 INTRODUCTION TO LIBRARY SERVICES (3 credits)**

This course introduces students to the discipline and profession of library and information science and to the wide array of information organizations whose purpose is to gather, organize, and transfer information to patrons in a diverse society.

**TED 2200 HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (3 credits)**

This course is designed to increase multicultural knowledge and positively impact the diversity disposition of prospective teacher candidates. It is also designed to help them become more aware of ways to motivate and positively impact the youths they will encounter in their future classrooms. Prospective teacher candidates will examine existing attitudes toward various groups by race, ethnicity, age, gender, disability, and social class with the goal of becoming dedicated practitioners, reflective scholars, and responsible citizens who can meet their professional responsibilities.

**Prerequisite(s):** 2.0 GPA

**Distribution:** U.S. Diversity General Education course

**TED 2210 FOUNDATIONS OF EDUCATION AND LEARNER DEVELOPMENT (3 credits)**

The course will provide teacher candidates with foundational knowledge on the philosophical, ethical, historical, and social foundations of education in society along with foundational knowledge on the current educational practices and theories on how children develop and learn within different educational environments. This course will also examine how these foundational aspects of education and child development impact and influence each other so that teacher candidates understand their role as dedicated practitioners, reflective scholars, and responsible citizens who can meet the needs of their students in the context of the profession in our changing world.

**TED 2250 INTRODUCTION TO EARLY CHILDHOOD EDUCATION (3 credits)**

This course provides an overview of early childhood education from theoretical, historical, and contemporary perspectives. Particular emphasis in the course is placed on key approaches to early childhood education, research on how children learn, and developmentally appropriate practice for children in the birth-to-age-five range. Observations are required as part of the course and will be conducted outside of class time.

**TED 2300 HUMAN GROWTH AND LEARNING (3 credits)**

This course will examine human growth and learning from conception through adolescence. It will focus on how current educational practices and theories of development and learning impact and influence each other. The course includes field-based and laboratory experiences for the students.

**Prerequisite(s):** Admission to Teacher Preparation. Permit number required to register. Not open to non-degree graduate students.

**TED 2310 FAMILY-CENTERED PARTNERSHIPS (3 credits)**

This course will examine the purposes and methods for developing family-centered partnerships for young children. Candidates will develop the skills necessary for the planning, designing, implementing, and evaluating effective family engagement in early childhood settings. Candidates will also explore characteristics of diverse families by engaging in service learning and exploring diverse settings in the community.

**Prerequisite(s):** TED 2250

**TED 2350 PLAY IN EARLY CHILDHOOD INCLUSIVE EDUCATION (3 credits)**

The purpose of this course is to provide theoretical and empirical bases for observing and understanding children in play; an understanding of cognitive, social, and communicative stages related to developmental theory through play; and opportunity to consider biological, cultural, and environmental influences on children's play and development, as well as, plan play experiences for young children. This course is designed primarily to prepare early childhood inclusive education teachers to develop the knowledge, skills, and dispositions to understand and use play as part of early childhood education and care programming for all young children.

**Prerequisite(s):** Not open to non-degree graduate students.

**TED 2360 CHILDREN'S LITERATURE (3 credits)**

This course focuses on children's literature as a significant component of a 21st Century learning environment through the use of multiple literacies, e.g., cultural, information, visual, and digital literacy strategies. An emphasis will be based on research-based literacy strategies and literature that supports culturally relevant teaching and librarianship.

**Prerequisite(s):** Admission to Teacher Preparation Program or Library Science.

**TED 2370 THE CREATIVE ARTS IN EARLY CHILDHOOD EDUCATION (3 credits)**

This course prepares the early childhood teacher candidate to implement and use the creative and expressive arts in the classroom and to develop and assess conceptual understanding and building the vocabulary of children.

**Prerequisite(s):** TED 2250. Not open to non-degree graduate students.

**TED 2380 DEVELOPMENT AND LEARNING IN ADOLESCENCE (3 credits)**

This course will examine human growth and learning from early through late adolescence, to help students gain an understanding of the biological, social, and cultural influences on the developing child in the second decade of life. The class will focus on how current educational practices and theories of development and learning impact and influence each other. The course will include field-based experiences.

**Prerequisite(s):** Prerequisites of TED 2100 and TED 2200. Not open to non-degree graduate students.



**TED 2390 SOCIOCULTURAL UNDERSTANDINGS OF INFANTS AND TODDLERS (3 credits)**

This course will examine socio-cultural conceptions of infant and toddler-aged children. The influences of culture and social context on parental and center-based goals, beliefs and practices will also be covered.

**Prerequisite(s):** TED 2250. Not open to non-degree graduate students.

**TED 2400 PLANNING FOR EFFECTIVE TEACHING (6 credits)**

The course provides an initial overview of lesson planning through an introduction to the concepts of standards, objectives, anticipatory sets, instructional strategies, assessments, and closure. The course also introduces culturally responsive teaching practices which are intentionally supportive of English Language Learners, students with disabilities, and students who live in poverty or other difficult circumstances. A practicum completed outside of scheduled class time is required. The practicum includes coaching support for the candidates.

**Prerequisite(s):** ELED, ELED SPED and ECI majors have a prerequisite of TED 2300. SED majors will be permitted only with TED 2380 as a corequisite. Not open to non-degree graduate students.

**TED 2410 FOUNDATIONS OF PLANNING FOR EFFECTIVE TEACHING (3 credits)**

The course provides an initial overview of lesson planning through an introduction to the concepts of standards, objectives, anticipatory sets, instructional strategies, assessments, and closure. The course also introduces topics and issues essential to teachers' ability to plan for effective teaching including culturally responsive teaching practices and strategies for serving Multilingual Learners, students with disabilities, and students who live in poverty or other difficult circumstances.

**Prerequisite(s):** Prerequisites: TED 2100 & TED 2200 or TED 2060. Not open to non-degree graduate students.

**TED 2420 INTERMEDIATE FIELD EXPERIENCE (3 credits)**

This seminar course is designed to support teacher candidates as they begin to gain content knowledge, skills, and procedures that will be addressed in educator preparation content courses. Additionally, this course provides students with guided opportunities to reflect upon and discuss their field experience. This course will be held throughout the semester that will provide an overview of the field experience, an explanation of the InTASC model core teaching standards related to content knowledge, and assist students in applying the skills/knowledge presented in the content area courses.

**Prerequisite(s):** Prerequisites: TED 2100 and (TED 2200 or TED 2060). Corequisite with Intermediate Course (TED 2410 Foundations of Effective Planning). Not open to non-degree graduate students.

**TED 2500 DIGITAL CITIZENSHIP (3 credits)**

The course is an introduction to the basic tenets of digital citizenship including legalities, ethics, privacy and security. The course fosters an awareness of digital citizenship as a topic that impacts pedagogy and programming and reflects best practice in all types of learning communities.

**TED 2800 SCIENCE EXPERIMENTATION AND ENGINEERING DESIGN (4 credits)**

Scientific Experimentation & Engineering Design (SEED) is a general education science course that introduces integrative STEM (Science, Technology, Engineering, and Mathematics) concepts and their applications. The course fosters 21st Century Learning through study and work in active, team-based experiential learning environments through all phases of near-space experiments using high-altitude balloon platforms. Near-space experiments require research question development, experiment hardware fabrication, experiment software integration, payload launch and recovery, data analysis, and formal experiments' results reporting. Science and Engineering Practices are central to students' experiences and work in this course, as the course models the interdisciplinary connectedness of academic fields, industry, and the community to encourage collaboration and discovery to effectively implement STEM concepts, practices, and innovation. (Cross-listed with STEM 2800).

**Distribution:** Natural/Physical Sci General Education lecture&lab

**TED 3000 SPECIAL PROJECTS (1-3 credits)**

This course allows offerings with a broad (PK-12) multigrade application. Study is often field-based and is conducted as a short course, seminar, or special project.

**TED 3050 FOUNDATIONS OF TEACHING ENGLISH AS A SECOND LANGUAGE (ESL) (3 credits)**

This course is designed to enhance candidates' understanding of the historical, political, and theoretical perspectives of K-12 English as a Second Language (ESL) education for English Learners (ELs) in the U.S. context. As dedicated practitioners, reflective scholars, and responsible citizens, students will have knowledge of factors that contribute to an effective multicultural and multilingual learning environment. TED 3050 includes an in school, guided practicum. Candidates must demonstrate competencies related to teaching English Learners (ELs) in K-12 classrooms. This is the first of two practicum experiences to complete the field experience requirements for Nebraska Department of Education.

**Prerequisite(s):** TED 2050, TED 2300 or TED 2380, and TED 2400.

**TED 3100 COMMUNITY EDUCATION: TEACHING & PRACTICE IN INFORMAL ENVIRONMENTS (3 credits)**

Informal education environments, such as museums, zoos, special-interest clubs, as well as summer camps, and after-school programs, offer expansive possibilities for learning outside of formal schooling. In this course, we will examine educational theory, practice, research, and evaluation associated with learning in informal contexts. Students will have the opportunity to work on collaborative service-learning projects with community partners who offer informal learning programs.

**Prerequisite(s):** Not open to non-degree graduate students.

**TED 3350 TEACHING AND ASSESSING READING IN ELEMENTARY SCHOOLS (6 credits)**

This course provides an introduction to reading theories, foundational principles such as phonemic awareness, phonics, vocabulary, comprehension, fluency, effective instructional practices, and reading assessment and evaluation as they relate to improving K-6 student learning. It includes consideration of emergent and content area literacy, and students' learning needs and cultures.

**Prerequisite(s):** EDUC 2510 or EDUC 2520 or TED 2400; co-requisite of TED 4330, 2.75 NU GPA.

**TED 3550 SECONDARY CLASSROOM MANAGEMENT (3 credits)**

This is a general methods course required of all candidates preparing to teach at the secondary level. Candidates will apply educational sequence competencies in understanding the characteristics of effective teachers by learning how to apply the three components of effective pedagogy: 1) use of instructional strategies, 2) use of classroom management strategies, and 3) effective classroom curriculum design. Candidates will also examine the changing role of the secondary school and selected professional issues in secondary education and be able to apply key ideas of classroom management. Candidates must demonstrate competencies related to performance in 7-12 classrooms. This is the third in a series of four required practicum experiences prior to the clinical practice semester.

**Prerequisite(s):** EDUC 2510 or EDUC 2520 or TED 2400; co-requisite TED 3690, 2.75 NU GPA.

**TED 3690 LITERACY AND LEARNING (3 credits)**

This course examines ways in which reading and writing can facilitate student learning in content areas studies (e.g., science, social studies, physical education, art, music, and math). The main focus is on teaching practices that engage students and contribute to their learning, integrating their background knowledge and cultural experiences with content area literacy. (Cross-listed with TED 8695).

**Prerequisite(s):** EDUC 2510 or EDUC 2520 or TED 2400; co-requisite TED 3550. 2.75 NU GPA and scores showing Praxis attempt (Math, Reading, and Writing)

**TED 3750 TEACHING GRAMMAR IN CONTEXT (3 credits)**

This course is an analysis of the integration of grammar throughout the writing process and the most effective contexts for and means for teaching grammar. The emphasis is on the application in the secondary school English classroom, on the development of teaching materials for the classroom, and on appropriate methodology for grammar instruction.

**Prerequisite(s):** EDUC 2510 or EDUC 2520 or TED 2400.

**TED 3760 ADULT SERVICES, PROGRAMMING, AND OUTREACH IN LIBRARIES (3 credits)**

This course examines best practices related to serving adult populations in 21st Century libraries and information agencies. Candidates will examine the characteristics of diverse adult populations and design resources, programming, and services to meet their personal and professional needs.

**Prerequisite(s):** Not open to non-degree graduate students.

**TED 4000 SPECIAL METHODS IN THE CONTENT AREA (3 credits)**

This course is designed to develop knowledge, skills, and dispositions requisite of teachers. Course content is determined by the discipline area. For some content areas a field experience will be required. This is an in-school, guided practicum completed in conjunction with TED 4000 math, science, language arts, world languages, Business, Information Technology, ESL and social studies sections. Candidates must demonstrate competencies related to performance in 7-12 classrooms. This is the final practicum experience prior to the clinical practice semester. (Cross-listed with TED 8006).

**Prerequisite(s):** TED 3690 and TED 3550. 2.75 NU GPA.

**TED 4120 READING & WRITING IN ELEMENTARY CONTENT AREAS (3 credits)**

This course is designed to enhance candidates' knowledge of best practices in teaching reading and writing in the content areas (science, social studies, math, art, music). Candidates will learn about teaching practices that engage elementary students and contribute to their learning, integrating their background knowledge and cultural experiences with content area literacy. This course will inform candidates as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their professions in a changing world.

**Prerequisite(s):** EDUC 2510 or EDUC 2520 or TED 2400.

**TED 4220 FINAL PRACTICUM IN EARLY CHILDHOOD EDUCATION (3 credits)**

TED 4220 is an in-school guided practicum taken at the end of ECE program coursework. Candidates must demonstrate competencies related to performance in pre-kindergarten education. This is the last practicum course prior to the clinical practice semester.

**Prerequisite(s):** Completion of ELEM/ECE undergraduate courses: TED 2250, TED 2310, TED 4250, TED 4260, TED 2370, TED 4290. 2.75 NU GPA. Not open to non-degree graduate students.

**TED 4250 GUIDANCE OF YOUNG CHILDREN (3 credits)**

This course will provide an overview of social and emotional development of the young child and an investigation of effective and appropriate guidance techniques as they relate to ages three to eight. Candidates will explore relationship-based approaches to guiding children and building caring and trusting classroom communities.

**Prerequisite(s):** TED 2250 and TED 2300 (EDUC 2010), 2.75 NU GPA.

**TED 4260 LANGUAGE AND LITERACY IN EARLY CHILDHOOD EDUCATION (3 credits)**

This course is designed for teacher candidates who are preparing to teach children from three to eight years of age, with particular emphasis on the language and literacy development of the young child and appropriate curriculum. Particular attention will be given to the role of the teacher as a dedicated practitioner in the early learning environment.

**Prerequisite(s):** TED 2250 and TED 2300 or EDUC 2010. 2.75 NU GPA. Not open to non-degree graduate students.

**TED 4290 INQUIRY IN EARLY CHILDHOOD SCIENCE AND MATHEMATICS EDUCATION (3 credits)**

This course is designed to educate teacher candidates about developing early mathematics and science foundations in young children (ages 3-8) with emphasis on inquiry-based teaching, learning, and assessing strategies.

**Prerequisite(s):** TED 2400, 2.75 NU GPA. Not open to non-degree graduate students.

**TED 4310 ASSESSMENT AND CLASSROOM MANAGEMENT FOR THE ELEMENTARY TEACHER (3 credits)**

TED 4310 studies assessment and classroom management principles, effective practices, and assessment and classroom management processes through the elementary curriculum. A practicum completed outside of scheduled class time is required.

**Prerequisite(s):** TED 3350, TED 4330 and TED 4340; Co-requisites: TED 4320 and TED 4350. 2.75 NU GPA. Not open to non-degree graduate students.

**TED 4320 TEACHING OF SOCIAL STUDIES: ELEMENTARY (3 credits)**

This course is designed to prepare elementary teacher candidates with an introduction to the issues and methods related to teaching social studies to elementary students. An in-school guided practicum is associated with this course. Candidates must demonstrate instructional and professional competencies related to performance in PK-6 classrooms. This is the final practicum experience prior to the clinical practice semester.

**Prerequisite(s):** TED 3350, TED 4330 and TED 4340; co-requisite TED 4350, 2.75 NU GPA.

**TED 4330 TEACHING OF MATHEMATICS: ELEMENTARY (3 credits)**

This course is designed to prepare elementary teacher candidates as mathematics education professionals at the elementary level. The course utilizes "hands-on" discussion and laboratory oriented activities where participants actively practice instructional topics and techniques related to the learning of mathematics at the elementary level. The course will further prepare pre-service elementary teachers to be dedicated practitioners, reflective scholars, and responsible citizens, who can meet the instructional challenges of their profession, as it relates to the student learning of mathematics in a modern and changing world.

**Prerequisite(s):** MTCH 2000; Co-requisite TED 3350; 2.75 NU GPA.

**TED 4340 TEACHING OF SCIENCE: ELEMENTARY (3 credits)**

This course is designed to give the undergraduate elementary education candidate a survey of the content of science in the elementary and middle school and a study of the methods and techniques of teaching science.

**Prerequisite(s):** EDUC 2510 or EDUC 2520 or TED 2400; 2.75 NU GPA.

**TED 4350 TEACHING OF READING AND LANGUAGE ARTS (6 credits)**

This course is designed to prepare elementary teacher candidates as educators of reading and the other language arts. Teacher candidates will implement appropriate strategies and assessments in a practicum experience that demonstrate knowledge and dispositions appropriate for teaching reading and language arts to all students. This course will prepare pre-service elementary teacher candidates as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their professions in a changing world.

**Prerequisite(s):** TED 3350, TED 4330 and TED 4340; co-requisite of TED 4320, 2.75 NU GPA.

**TED 4370 TEACHING AT THE MIDDLE LEVEL (3 credits)**

This course will provide candidates with a variety of middle level teaching techniques and strategies in their classrooms that have been identified in current research literature as appropriate for the middle level. This course is designed to introduce candidates to the unique characteristics of the middle student, school, curriculum, history, and philosophy. (Cross-listed with TED 8376).

**Prerequisite(s):** TED 2300 or EDUC 2010 or TED 2380.

**TED 4570 LIBRARY SCIENCE CAPSTONE (3 credits)**

Candidates will gain direct experience and an understanding of the theories, concepts and activities integral to public services, technical services, and the administration in a 21st Century library and information agency at an assigned field site or through an in-depth research project. Candidates will demonstrate the ability to plan, develop, and implement programming and services for patrons and diverse learners in their public, academic and special libraries.

**Prerequisite(s):** There are no specific course prerequisites for the Capstone Practicum but students must be in the final two semesters of their Library Science Education Program.

**TED 4590 TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS (3 credits)**

This course provides foundational knowledge about tools and technologies for use with all types of educational scenarios. Course content will include information about many different types of learners and literacies and will explore instructional tools and strategies that enhance dissemination of digital information and digital instruction.

**TED 4600 CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (12 credits)**

A supervised teaching experience under the direction of university faculty/supervisor and a classroom teacher in the candidate's teaching area.

**Prerequisite(s):** Candidates must complete all coursework, have a minimum cumulative GPA of 2.75, and be accepted into Clinical Practice.

**TED 4610 TEACHING OF WRITING THROUGHOUT THE CURRICULUM (3 credits)**

This course is designed to enhance teacher candidates' knowledge of teaching writing. Candidates will learn about research-supported writing instruction strategies and assessments. Candidates will be writing extensively throughout the course as they examine the varied ways people communicate through writing. They will explore a variety of modes, genres, and digital tools to write and encourage students to write for authentic purposes and audiences.

**Prerequisite(s):** TED 2400.

**TED 4630 INSERVICE STUDENT TEACHING: ELEMENTARY AND SECONDARY (3 credits)**

Designed as an additional student teaching experience for in service teachers and students seeking certain additional certificates. Candidates must successfully complete an intermediate level field experience prior to student teaching.

**Prerequisite(s):** Permission. Application is made in the Office of Student Services.

**TED 4640 K-12 CLINICAL PRACTICE AND SEMINAR ELEMENTARY/SECONDARY (12 credits)**

A supervised teaching experience designed for students seeking certification in art, music, physical education, and library media in the K-12 preparatory program.

**Prerequisite(s):** Candidates must complete all course work and obtain a minimum overall (cumulative) consistent GPA of 2.75, and be accepted into student teaching.

**TED 4644 CLINICAL PRACTICE ORIENTATION (0 credits)**

This experience provides an introduction to clinical practice.

**Prerequisite(s):** Candidates must have complete all course work, obtained a minimum overall (cumulative) consistent GPA of 2.75, and been accepted into Clinical Practice.

**TED 4650 CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (6 credits)**

A supervised teaching experience under the direction of university faculty/supervisor and a cooperating teacher in the candidate's teaching area.

**Prerequisite(s):** Candidates must complete all course work, have a minimum cumulative GPA of 2.75, passing Praxis Core scores (Math, Reading, and Writing) and be accepted into Clinical Practice. Co-requisite of the course SPED 4700.

**TED 4660 YOUNG ADULT LITERATURE (3 credits)**

This course extends candidates' knowledge of literature for young adults. The course addresses current trends in the genre and engages candidates in activities that support pedagogies in basic, visual, information and cultural literacies.

**TED 4700 EDUCATION CAPSTONE (3-6 credits)**

This course is designed to provide individual and experiential learning in a supervised setting of a selected educational environment outside of the traditional P-12 classroom setting. The candidate will be introduced to the educational practices and roles in an environment that allows for integration of educational theory and practice.

**Prerequisite(s):** Completion of, or current enrollment in, Professional Education Core courses, GPA of 2.5, no grade below a C in required courses, and permission of Teacher Education Department Chair.

**TED 4710 RESEARCH AND INQUIRY (3 credits)**

Candidates will demonstrate an understanding of the theories, concepts and activities integral to reference resources and services in 21st Century libraries and information agencies. Candidates will demonstrate an understanding of effective search strategies and efficient use of both print and digital resources, design and promote information literacy instruction that is developmentally appropriate, and understand the legal and ethical responsibilities integral to positive and proactive reference services for patrons and diverse learners.

**TED 4720 SPECIAL LIBRARIES AND INFORMATION AGENCIES (3 credits)**

Candidates will demonstrate an understanding of the major types of 21st Century special libraries and information agencies. Candidates will demonstrate an understanding of social and political environments, clientele, services, collections, physical settings, financing and staffing, and future trends in the special libraries and information agencies. (Cross-listed with TED 8726).

**TED 4740 MANAGEMENT OF INFORMATION RESOURCES IN LIBRARIES (3 credits)**

This course addresses basic theory and best practice in collection management, descriptive and subject cataloging, and classification of information resources using national standards and resources. Course will address the theories, concepts and activities integral to proactive collection development in 21st Century libraries. Candidates will demonstrate understanding of the legal and ethical aspects of the collection and organization of information resources by appropriately applying the standards of their discipline to ensure access to information and ideas for all patrons.

**Prerequisite(s):** Not open to non-degree graduate students.

**TED 4760 MANAGING COLLECTIONS IN LIBRARIES AND INFORMATION AGENCIES (3 credits)**

Candidates will demonstrate an understanding of the theories, concepts and activities integral to proactive collection management in 21st Century libraries and information agencies. Candidates will demonstrate an understanding of community analysis, collection analysis, and the ability to conduct critical evaluations of a diverse array of information resources.

**TED 4800 LEADERSHIP AND MANAGEMENT IN LIBRARIES (3 credits)**

The course introduces concepts for effective leadership and management for 21st Century libraries of all kinds (special, public, academic, and school). Candidates will be introduced to vocabulary, philosophies, and processes involved in administration of libraries in support of ensuring quality service to all library patrons. Candidates will be introduced to professional ethics and principles and will be made aware of best practices in management of library services and facilities.

**Distribution:** Writing in the Discipline Single Course

**TED 4810 PRINCIPLES AND PHILOSOPHY OF INTEGRATING CAREER AND ACADEMIC EDUCATION (3 credits)**

This course presents the philosophies and principles/practices underlying how schools can better prepare students for the workplaces of the future with emphasis on the integration of career education within broader academic preparation. The roles and responsibilities of teachers, counselors, and administrators in implementing integrated approaches will be examined. (Cross-listed with TED 8816).

**TED 4850 COORDINATION TECHNIQUES IN WORK-BASED LEARNING (3 credits)**

This course reviews responsibilities and techniques of coordination for the work-based learning teacher-coordinator and/or work-based learning coordinator, with special emphasis on administration of the part-time cooperative program and analysis of the laws and regulations governing this program. (Cross-listed with TED 8856).

## Theatre (THEA)

### Theatre Undergraduate Courses

**THEA 1000 THEATRE PRACTICUM (1 credit)**

Lecture, discussion, and experience in theatre production concepts and techniques. One hour formal meeting each week and an average of two-four hours per week in an assigned technical production area based on your interests and skills. Required of Theatre majors and may be taken by all other students. May be repeated eight times.

**THEA 1010 THEATRE APPRECIATION (3 credits)**

A survey course designed to introduce students to all areas of theatre practice and study. Several major periods of theatre art and practice will be explored and, depending on the instructor, emphasis may include acting, playwriting, design and theatre technology, and or theatre literature.

**Prerequisite(s):** None. Not recommended for Theatre Majors

**Distribution:** Humanities and Fine Arts General Education course

**THEA 1020 SUMMER MUSICAL THEATRE ACADEMY (0-1 credits)**

Intensive supervised workshops and experiential learning opportunities involving significant contribution(s) to the summer musical theatre academy or other departmentally approved arts organizations and programs.

**Prerequisite(s):** Permission of Instructor

**THEA 1050 FILM HISTORY AND APPRECIATION (3 credits)**

A journey through one of many different possible worlds of film. Students will learn about various dimensions of filmmaking—historical development, cinematography, editing, screenwriting, and so much more. Exposure to critical perspectives on the genre(s) under consideration. Includes regular viewing of excerpts and full-length films. (Cross-listed with JMC 1050).

**Distribution:** Humanities and Fine Arts General Education course

**THEA 1060 HISTORY OF THE BROADWAY MUSICAL (3 credits)**

This course develops knowledge of America's Broadway musical tradition as an artistic and cultural phenomenon. It explores the evolving art form from its earliest ethnic expressions to the golden age of song, the classic book musical, innovations in form, and ending with the most recent embrace of inclusiveness and the diversity of our American identity.

**Distribution:** Humanities and Fine Arts General Education course

**THEA 1070 SUPER HERO CINEMA (3 credits)**

A senses-shattering survey of the cinema of superheroes! Students will study the history and evolution of the superhero genre on the big (and small) screens, reviewing selected excerpts and full-length films, recorded lectures, and curated readings. Featuring a pulse-pounding parade of profound and provocative motion pictures!

**THEA 1080 TAYLOR SWIFT & FRIENDS: THE DRAMA OF STORYTELLING, STAGE AND SPECTACLE (3 credits)**

Songwriters tell stories through lyrics. Pop icons take this storytelling to new heights with lighting, costumes, visual images, and other spectacles of theatre. In this course we will discover the connections between Taylor Swift, Beyoncé, Madonna and Prince as we explore their art through the marriage of life, storytelling, music, film, and the impact they have had on popular culture.

**THEA 1200 SINGING TECHNIQUE FOR ACTORS (1 credit)**

THEA 1200 Singing Technique for Actors provides instruction in singing technique. It is designed for non-music majors to practice the concepts of vocal health, resonance, breath support, elements of good musicianship and song interpretation. It is focused on Contemporary Commercial Music (CCM)/non-classical styles of singing and uses different criteria than the School of Music to meet more diverse musical backgrounds.

**THEA 1300 ACTING I (3 credits)**

The basic acting class, for majors and non-majors. Emphasis on freeing oneself as a preparation for basic character and scene work using exercises for relaxation, energy generation, concentration and group interaction. Three relationships basic to the actor are explored: to oneself, to another actor, to the ensemble.

**Distribution:** Humanities and Fine Arts General Education course

**THEA 1500 FOUNDATIONS OF PRODUCTION DESIGN (3 credits)**

An introductory course introducing students to the omnipresence and role of design in contemporary society; and to fundamental elements and principles of analysis, conceptualization, and visual interpretation, as they apply to the production design process.

**THEA 1600 FOUNDATIONS OF SCENIC PRODUCTION (3 credits)**

An introduction to scenic production class designed to develop the skills, knowledge, theories and materials of professional designers and craftspersons, as well as developing a working knowledge of the practices in the business of technical theatre.

**THEA 1604 FOUNDATIONS OF SCENIC PRODUCTION LAB (0 credits)**

Foundations of Scenic Production Lab covers topics in theatre safety, rigging, lighting and construction, to be taken concurrently with THEA 1600. Instruction and practice in industry standards is also an emphasis of the course.

**Prerequisite(s):** Enrolled concurrently with THEA 1600, Foundations of Scenic Production

**THEA 1650 STAGE COSTUME (3 credits)**

An introductory course covering foundational vocabulary, skills, materials, tools, and processes used for costume construction specifically for the theatre.

**Prerequisite(s):** THEA 1654 to be taken concurrently.

**THEA 1654 STAGE COSTUME LAB (0 credits)**

Topics in Stage Costume Lab include foundational vocabulary, skills, materials, tools, and processes used for costume construction specifically for the theatre.

**Prerequisite(s):** THEA 1650 to be taken concurrently.

**THEA 1660 STAGE MAKEUP (3 credits)**

This course will introduce students to the complexities of stage makeup. Utilizing a hands on approach, the course is specially designed to facilitate active learning while exploring basic makeup procedures and complex prosthetic makeup application.



**THEA 1700 SCRIPT ANALYSIS (3 credits)**

This course introduces a variety of approaches for analyzing plays and other dramatic works, especially as they are employed by actors, directors, designers, dramaturgs, and other theatre artists. There will be multiple opportunities to apply these methods of analysis through class discussion and written work. Script analysis will be explored with an eye toward theatrical production, recognizing each playscript as the blueprint for a potential production. Particular attention will be paid to genre, structure, style, character, theme, language, imagery, and dramatic action. The focus will be on traditional dramatic structure, though some attention/discussion will be given to less traditional/non-linear works.

**THEA 2000 THEATRE PRACTICUM II (2 credits)**

Lecture, discussion, and experience in theatre production concepts and techniques. One hour formal meeting each week with Instructor, and an average of two-four Lab hours per week (or more) in an assigned technical production area based on your interests and skills. Lab hours will be established with the lab supervisor. Required of Theatre majors and may be taken by all other students. May be repeated for credit.

**Prerequisite(s):** Four semesters of THEA 1000.

**THEA 2020 THEATRE FOR YOUNG AUDIENCES (3 credits)**

A course that introduces the theories and practices of using theatre and drama as an educational and social tool, as well as creating theatre for and with youth. Includes opportunities to create and utilize techniques in both performance and the learning environment.

**Prerequisite(s):** THEA 1010 Theatre Appreciation or THEA 1300 Acting I or THEA 1600 Foundation: Scenic Production

**THEA 2030 INTERNSHIP I (1-6 credits)**

This course provides an opportunity for the student to participate in a professional theatre company and receive course credit. The course will involve practical application. Areas of study might include artistic direction, direction, dramaturgy, arts management, production management, design and technology, or performance. Assignments are made according to the individual interests and skills of the student as they match available opportunities and needs in the industry.

**Prerequisite(s):** THEA 1000 Theatre Practicum (2 credits). Permission of instructor.

**THEA 2280 DANCE FOR THE THEATRE I (1 credit)**

In this course, students will explore a wide array of dance styles, each carefully selected to enhance their understanding and appreciation of the role dance plays in musical theatre.

**THEA 2290 DANCE FOR THE THEATRE II (1 credit)**

Dance for Theatre II will serve as an Intermediate course that will build on students' foundational dance skills and vocabulary. Students will explore a wide array of dance styles, each carefully selected to enhance their understanding and appreciation of the role dance plays in musical theatre.

**Prerequisite(s):** THEA 2280 or permission of instructor

**THEA 2300 MOVEMENT FOR THE ACTOR (3 credits)**

Discovery and training of the human body as a technical instrument and as one of the key expressive elements of any performance-oriented medium.

**Prerequisite(s):** THEA 1300 Acting I

**THEA 2400 STAGE MANAGEMENT (3 credits)**

This fundamental course investigates theater-making from the point of view of a stage manager. Through the exploration of a theatre production process, students learn the artistic and organizational techniques needed to professionally stage-manage traditional and non-traditional productions. Integrated management theory allows each student to identify how their practice can be informed by theory and to begin cultivating their individual stage management style.

**Prerequisite(s):** Permission of instructor

**THEA 2500 DRAWING FOR THE THEATRE (3 credits)**

Drawing for the Theatre is a course that introduces students to the visual language of drawing through observation, exercises and most importantly, evaluations and critiques. In addition to traditional drawing techniques, this course will cover color theory and figure drawing. The course develops insights into the mechanisms of visual perception, how the individual components of the drawing relate to the whole and compositional organization. Each student develops observational skills rooted in traditional drawing media while striving to develop critical thinking and research skills.

**Prerequisite(s):** THEA 1500 or THEA 1510 Foundations of Production Design, THEA 1700 Script Analysis

**THEA 2600 COSTUME PATTERNING AND DRAPING (3 credits)**

Exploration of the creation of patterns for theatrical costumes. Techniques include flat patterning, draping and development of historical patterns. Specific attention is given to period silhouette and detail and theatrical costume production conventions.

**Prerequisite(s):** THEA 1650 or THEA 1550 or permission of instructor.

**THEA 3000 SPECIAL TOPICS IN THEATRE (3 credits)**

This course utilizes a topical approach that explores various aspects of theatre that are outside the set Theatre curriculum. Topics and disciplines will vary from term to term. Course description will be announced in advance. It is repeatable for credit if content differs.

**THEA 3010 ADVANCED PROJECTS IN THEATRE: INDEPENDENT STUDY (1-3 credits)**

Special projects in theatre supplementing regular courses; individual research projects; combined study and practicum.

**Prerequisite(s):** THEA 1000 Theatre Practicum, THEA 1700 Script Analysis

**THEA 3200 MUSICAL THEATRE ENSEMBLE (1 credit)**

THEA 3200 Musical Theatre Ensemble is offered during spring semester and uses the study of selected musical theatre repertoire, rehearsal, individual coaching, and group exercise to provide instruction in ensemble singing, solo singing, musicianship, movement and acting. It is designed for students pursuing musical theatre study and develops the skill sets that are needed for musical theatre performance.

**Prerequisite(s):** THEA 1200, or Permission of the Instructor.

**THEA 3210 ADVANCED SINGING TECHNIQUE FOR ACTORS (1 credit)**

THEA 3210 Advanced Singing Technique for Actors provides instruction in advanced singing technique. It is designed for students to develop and practice the concepts of vocal health, resonance, breath support, elements of good musicianship and song interpretation. It is focused on CCM/non-classical styles of singing and uses different criteria than the School of Music to meet more diverse musical backgrounds. This course advances to higher levels of instruction in singing technique from the perspective of the actor and musical theatre repertoire.

**Prerequisite(s):** THEA 1200

**THEA 3230 AMERICAN MUSICAL THEATRE REPERTOIRE HISTORY (3 credits)**

THEA 3230 American Musical Theatre Repertoire History is a lecture-based course that surveys important songwriters and significant shows from present day Broadway back in time to the 1927 Showboat. It is designed to give students from the avid musical theatre enthusiast to those pursuing career paths in musical theatre a foundation in the innovations, history, musical styles, major breakthroughs, and growth of the art form from Showboat and Oklahoma to Hamilton and Hadestown.

**THEA 3260 MUSICAL THEATRE AND OPERA WORKSHOP (1 credit)**

THEA 3260/MUS 3260 Musical Theatre and Opera Workshop is an ensemble offered during fall semester that integrates singing, movement and acting through rehearsal, private musical coaching and group exercise. It is designed for students in opera and musical theatre and develops the skill sets that are needed for performance. (Cross-listed with MUS 3260).



**THEA 3300 ACTING II (3 credits)**

Incorporating skills and awareness developed in Acting I, this class moves toward examining various tools for character development by oneself, in large group improvisations and with written scripts. Specific scene work leads to a final scene presented both for the class and for all interested persons.

**Prerequisite(s):** THEA 1300 Acting I

**THEA 3310 VOICE FOR THE ACTOR (3 credits)**

This course is a comprehensive exploration of the actor's voice and speech. The student gains a detailed understanding of breath, tension and relaxation, resonance, articulation, textual interpretation, and learns to combine movement and voice, enhancing creativity in vocal expression. The focus is freeing the unique vocal potential of each student, and on training the voice for performance.

**Prerequisite(s):** THEA 1300 Acting I. Not open to non-degree graduate students.

**Distribution:** Humanities and Fine Arts General Education course

**THEA 3400 DIRECTING I (3 credits)**

Directing I examines the development of the role of director in Western Theatre; provides practice in the directing process including script analysis, dramaturgical research, staging visual composition, collaboration with designers and performers; considers alternative approaches to directing and encourages students to begin to develop a personal directing style.

**Prerequisite(s):** THEA 1300, THEA 1500, THEA 1600, THEA 1700, THEA 3300

**THEA 3410 HUMAN DYNAMICS IN THE ARTS (3 credits)**

Human Dynamics in Arts is a practical course for students who aspire to become effective leaders, managers and directors of arts-based organizations in, non-profit, education, and business sectors. Students will gain a deeper understanding of how to strengthen organizations by recognizing the complex interplay of individual motivation, personal growth, effective communication, and organizational goals. Students will learn to apply specific communication techniques that will enable them to recognize patterns of behavior that reflect underlying emotional needs critical to motivation and workplace productivity. They will use these techniques to build trust, foster positive working relationships, maximize talents, and develop more effective, productive, and dynamic organizations. Students will also gain an understanding of the importance of developing an entrepreneurial mindset critical to success in a rapidly changing workplace. They will learn to recognize opportunities, identify solutions, and develop clear, effective strategies for moving their arts organizations forward.

**Prerequisite(s):** CMST 1110 and Junior Standing

**THEA 3420 GLOBAL CITIZENSHIP IN THE ARTS (3 credits)**

This course is about artistic excellence married to ethical practices and responsible world citizenship. Students will analyze and evaluate how to use art to address community issues and discover a road map that allows for authentic, consistent, and sustainable commitment to the community and its needs.

**Prerequisite(s):** ENGL 1160 and Junior Standing

**THEA 3440 EXPLORING ART THERAPY (3 credits)**

This course provides an overview of the field of art therapy and the use of therapeutic art. Topics covered include: The historical use of art as healing across cultures, the contemporary use of art therapy with various populations and settings; an introduction to the theories, techniques; and the profession of art therapy. Students participate in representative art therapy activities, but previous art experience is neither required nor expected. This course does not qualify participants to practice art therapy but will provide information on its safe and effective utilization by health professionals. (Cross-listed with ART 3440, MEDH 3440, WRWS 3440).

**THEA 3500 COLLABORATIVE DESIGN STUDIES (3 credits)**

Collaborative Design Studies explores the integration and process of theatrical production including scenery, lighting, costume, projection and sound. It chronicles their individual and collective impact on storytelling. While developing the skills of the Scenographer, students will work collaboratively as they foster their individual artistic design talents, and recognize the impact of design on society through storytelling.

**Prerequisite(s):** THEA 1500/THEA 1510, THEA 1600/THEA 1630, THEA 1700

**THEA 3660 STAGE AND TV LIGHTING (3 credits)**

Characteristics and control of light and color and their application to the theatre and television; elementary electricity; lens systems; reflectors; lamps; control systems; automation. (Cross-listed with THEA 8665).

**Prerequisite(s):** THEA 1630 or permission of instructor.

**THEA 3700 THEATRE HISTORY AND LITERATURE: 1960-PRESENT (3 credits)**

This course offers a brief survey of European and world theatre from the emergence of post-modernism to the present time. It also focuses especially on theatre for social change, community development, and the community-based theatre movement. It will include a service-learning component with one or more regional social-service or similar agencies.

**Prerequisite(s):** ENGL 1160, THEA 1700

**THEA 3710 THEATRE HISTORY AND LITERATURE: MODERN / 1800-1960 (3 credits)**

This course is a survey of both western European and world theatre from the emergence of modernism to 1980, about the time of the emergence of post-modernism.

**Prerequisite(s):** ENGL 1160, THEA 1700

**THEA 3720 THEATRE AND SOCIAL JUSTICE (3 credits)**

This service-learning course will combine both research and practice in theatre that involves social change. Students will study the history of such theatre, with special focus on developments in the 20th century. All research will be accompanied by several community-based projects whereby students will create theatre with specific populations (schools, community centers, health centers, senior homes, etc.).

**Prerequisite(s):** ENGL 1160, THEA 1700

**THEA 4000 SUMMER THEATRE WORKSHOP (3 credits)**

Intensive supervised workshop experience involving significant overall contribution(s) to the summer theatre program.

**THEA 4020 ADVANCED PROJECTS IN THEATRE (1-3 credits)**

Completion of a undergraduate project relevant to the student's major area of study under the supervision of an advisor. The project must demonstrate competency in writing and research/creative activity as it pertains to appropriate aspects of theatre.

**Prerequisite(s):** 9 hours of theatre in the general area to be studied and permission of the instructor.

**THEA 4030 INTERNSHIP II (1-6 credits)**

This course provides an opportunity for the student to participate in a professional theatre company and receive course credit. The course will involve practical application. Areas of study might include artistic direction, direction, dramaturgy, arts management, production management, design and technology, or performance. Assignments are made according to the individual interests and skills of the student as they match available opportunities and needs in the industry.

**Prerequisite(s):** THEA 1000 Practicum, THEA 2000 Practicum II or Permission of Instructor

**THEA 4050 SHAKESPEARE ON FILM: THE ART OF INTERPRETATION (3 credits)**

Study how Shakespeare's plays are interpreted for performance. Explore how production shapes our understanding of the text. Understand how the change of medium from page to stage to screen reveals meaning in unique ways. Experience a dynamic way of making the most extraordinary plays your own. Classes will feature readings, lecture, class discussion, and film screenings of different cinematic interpretations of several of Shakespeare's plays. Previous study of Shakespeare is helpful but not required.

**Prerequisite(s):** Junior standing or permission of instructor.

**Distribution:** Humanities and Fine Arts General Education course

**THEA 4310 ADVANCED ACTING: POST REALISM (3 credits)**

Advanced work in the technical skills of voice, speech, movement and textual analysis needed for post-realist material.

**Prerequisite(s):** THEA 1700, THEA 2300, THEA 1300, THEA 3300 or graduate with an undergraduate major or minor in theatre or permission of instructor.

**THEA 4320 ADVANCED ACTING: GREEKS TO RESTORATION (3 credits)**

The fundamental theories and practices of major styles of acting from ancient Greece to the Restoration, including interpretation of outstanding dramatic literature.

**Prerequisite(s):** THEA 1700, THEA 2300, THEA 1300, THEA 3300 or graduate with an undergraduate major or minor in theatre or permission of instructor.

**THEA 4330 ADVANCED ACTING: ENSEMBLE PLAY PRODUCTION (3 credits)**

In-depth exploration of a play or playwright's work to connect acting class with performance. Special emphasis on creating a working process that allows the ensemble to emerge. The class will culminate in public performance.

**Prerequisite(s):** THEA 1700, THEA 2300, THEA 1300, THEA 3300 or graduate with an undergraduate major or minor in theatre or permission of instructor.

**THEA 4340 ADVANCED ACTING: AUDITIONING (3 credits)**

An acting class designed to develop auditioning skills and material as well as cultivate a working knowledge of the business of acting.

**Prerequisite(s):** THEA 2310 or THEA 1300 and THEA 2320 or THEA 3300 and Junior standing. Graduate with an undergraduate major or minor in theatre or permission of the instructor.

**THEA 4400 DIRECTING II (3 credits)**

A practicum in play selection, analysis, casting, rehearsing and performing.

**Prerequisite(s):** THEA 1300/THEA 2310, THEA 1500/THEA 1510, THEA 1600/THEA 1630, THEA 1700, THEA 3300/THEA 2320, THEA 3400/THEA 4430

**THEA 4500 CHALLENGES IN PRODUCTION DESIGN (3 credits)**

Evaluation and exploration of the world of theatrical storytelling using line, texture, contrast, theme, metaphor and symbolism. Students will work collaboratively as they foster their individual artistic talents, and recognize the impact of design on society through storytelling. (Cross-listed with THEA 8506).

**Prerequisite(s):** THEA 1500/THEA 1510 and THEA 1700 or permission of instructor.

**THEA 4550 PERIOD STYLES IN DRESS AND DECOR (3 credits)**

An historical survey course introducing students to the major periods and iconic styles and trends in western architecture, dress and interior decor of the past 2000 years; and to the social, cultural and technological influences on those trends, particularly as they relate to theatrical and production design.

**Prerequisite(s):** THEA 1700 and THEA 3700/THEA 3770, THEA 3710/THEA 3760, THEA 4710 or THEA 4720 or by permission of instructor.

**THEA 4610 SCENE DESIGN (3 credits)**

Scene Design is an advanced level course intended for aspiring scene designers or those that want to learn about the specific requirements of the scene design process. The focus of this course will be the study of techniques of communicating a scenic design. Topics of class will include, script analysis, sketching, research, floor plans, wall elevations, sketch models, paint elevations, and presentations models.

**Prerequisite(s):** THEA 1600 and THEA 1700 and Junior standing.

**THEA 4780 THEATRE HISTORY AND LITERATURE: CLASSICAL TO 1500 (3 credits)**

This course is a survey of both western European and early Asian theatre and the related theatre literature in ancient Greece and Rome, India, and medieval Europe from the fifth century BCE to the beginning of the European renaissance.

**Prerequisite(s):** ENGL1160 and Junior standing

**THEA 4790 THEATRE HISTORY AND DRAMATIC LITERATURE: 1500 TO 1800 (3 credits)**

This course is a survey of primarily western European theatre and the related theatre literature from the Renaissance until the English sentimental comedy.

**Prerequisite(s):** ENGL 1160 and Junior standing or Permission of the Instructor.

**THEA 4900 ADVANCED PROJECTS - CAPSTONE (3 credits)**

Demonstration of mastery in a specific area of theatre through an advanced project in acting, musical theatre, directing, design/technical theatre, playwriting, or dramaturgy. This will serve as an end of career course designed to evaluate the student's competency and knowledge of theatre practice.

**Prerequisite(s):** THEA 1000 Practicum, THEA 2000 Practicum, and permission of the instructor

## University Seminar (US)

### University Seminar Undergraduate Courses

**US 1000 BRIDGE PROGRAM (0 credits)**

The Bridge Program within the Thompson Learning Community provides additional support to students enrolled in English as a Second Language courses (ESL I and ESL II). Curriculum and supplemental activities are designed to help these students better navigate the University of Nebraska at Omaha campus.

**Prerequisite(s):** Be a member of the Thompson Learning Community, enrolled in ENGL 1090 or ENGL 1100. Not open to non-degree graduate students.

**US 1010 CRITICAL THINKING AND PROBLEM SOLVING FOR THE MODERN DAY STUDENT (1 credit)**

Students will use critical thinking and reasoning to analyze themes, perspectives, and concepts drawn from academic works, career development theory, and Positive Psychology to inform academic, personal and professional lives.

**Prerequisite(s):** Limited to students who have earned 15 or fewer credit hours and have not taken an equivalent course. Students should not register for US 1010 and US 1020. Not open to non-degree graduate students.

**US 1020 TLC ACADEMIC SUCCESS SEMINAR (0 credits)**

This course is intended to enhance first-year students' potential for success in college. This course will provide students the opportunity to learn about academic strategies, network with other TLC community members and staff, and become familiar with UNO resources and programs.

**Prerequisite(s):** Thompson Learning Community members only. Freshman only or permission. Not open to non-degree graduate students.

**US 1030 LEADING YOUR MONEY (0 credits)**

Personal finance for the collegiate leader.

**US 2020 TLC SOPHOMORE SEMINAR (0 credits)**

TLC Sophomore Seminar is a course designed to assist students in exploring university and academic identity, build leadership competency, introduce students to resources that will lead to major and career exploration, and build networking relationships at UNO and in the community.

**Prerequisite(s):** Second-year Thompson Learning Community Students. Not open to non-degree graduate students.

**US 2800 CAREER COMPETENCIES FOR PROFESSIONAL SUCCESS (3 credits)**

This course facilitates the development of 21st century skills to enable professional success in a variety of fields. Topics include aligning occupational information with self-awareness, professional communication, critical thinking and self-advocacy for lifelong career management.

**US 3030 TLC MENTOR INTERNSHIP (0-1 credits)**

Students serve as peer mentors who help first-year students to transition into college and connect them to necessary resources for academic and personal success.

**Prerequisite(s):** Current Thompson Learning Community (TLC) student with a 2.5 GPA. Not open to non-degree graduate students.

## Urban Studies (UBNS)

### Urban Studies Undergraduate Courses

**UBNS 1010 INTRODUCTION TO URBAN STUDIES (3 credits)**

Introduction to history, concepts, development and literature of urbanism. An interdisciplinary examination of issues confronting contemporary urban society and how various academic disciplines relate to those issues. (Cross-listed with PA 1010).

**UBNS 2500 CITIES: PLANNING, POLICIES, & CONTEMPORARY ISSUES (3 credits)**

Course on urban policies, policymaking, and planning. Attention is given to various current urban issues and the policy options surrounding them. Policy processes and the institutions of policymaking in cities are covered. Topics of focus include policies related to policing, economic development, land use, transportation, education, poverty, housing, and ordinances. Additionally, issues in city planning and design are covered as they apply to the city policymaking processes and politics.

**Distribution:** Social Science General Education course

**UBNS 3200 SUMMER IN THE CITY: EXPLORING THE URBAN ENVIRONMENT (3 credits)**

This experiential course explores the urban fabric of Omaha, Nebraska, bringing students to a new location in the city every week. Students will interact with local communities, neighborhoods, festivals and events, institutions, and the urban landscape of businesses, people, historical and cultural sites, and one another. As true participant/observers, we will reflect on how the city functions as an interactive metropolitan environment both supporting and placing demands on its residents and visitors. We will consider Omaha's current role in Nebraska and the Great Plains, as well as its internal functionality for its many constituents as we envision the futures of interactive urban, metropolitan areas.

## Women's and Gender Studies (WGST)

### Women's and Gender Studies Undergraduate Courses

**WGST 1950 BLACK WOMEN IN AMERICA (3 credits)**

This course will examine how Black women in America have evolved politically, economically, and socially under oppressive conditions of slavery, the Reconstruction Era, Jim Crow, and through the Civil Rights, Black Lives Matter, and "Me Too" Movements. The underlying themes of this course are the impact of gender and race on Black women, with an emphasis of how gender and race are fueled by white supremacy, patriarchy, colonialism, capitalism, and imperialism. (Cross-listed with BLST 1950)

**Distribution:** U.S. Diversity General Education course

**WGST 2000 SPECIAL TOPICS: GENDER AND SEXUALITY IN ENGLISH STUDIES (3 credits)**

A variety of topics primarily for the non-major. (For example, this course might study the image of businesswomen in American literature.) One or two such topics may be offered each term, depending upon student interest and available faculty. Students should consult each term's class schedule in order to determine the specific topics for that term.

**Prerequisite(s):** None. ENGL 1160 recommended

**WGST 2010 INTRODUCTION TO WOMEN'S AND GENDER STUDIES: SOCIAL AND BEHAVIORAL SCIENCE (3 credits)**

A survey course which explores social science perspectives on women, men, and gender, including the biological contribution to human behavior and the impact of science as an institution. Examines challenges to traditional definitions of women's place and movements for change. Includes historical and multicultural materials.

**Prerequisite(s):** ENGL 1150 is recommended.

**Distribution:** Social Science General Education course and U.S. Diversity General Education course

**WGST 2020 INTRODUCTION TO WOMEN'S AND GENDER STUDIES: HUMANITIES (3 credits)**

An introduction to women's and gender studies in the humanities (literature, art, dance, music, theatre, philosophy). Explores both historical and contemporary images of women in these fields; discusses the context in which these images developed. Introduces the basic concepts and terminology of women's and gender studies.

**Prerequisite(s):** ENGL 1150 is recommended.

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**WGST 3000 SPECIAL TOPICS: GENDER AND SEXUALITY IN ENGLISH STUDIES (3 credits)**

A study of designated specific topics related to gender and sexuality studies within the disciplines of English (May be repeated for credit as long as the topic is not the same.)

**Prerequisite(s):** Variable according to topic.

**WGST 3020 PERSPECTIVES ON LEADERSHIP (3 credits)**

This course studies scholarship on and the practices of gender and leadership for undergraduate students. It is a service-learning course.

**Prerequisite(s):** WGST 2010 or WGST 2020

**WGST 3080 HUMAN SEXUALITY (3 credits)**

An examination of factors influencing sexual development. Emphasis is given to topics pertinent to healthful living in today's culturally diverse, global society. (Cross-listed with PHHB 3080).

**WGST 3100 LGBT POLITICS (3 credits)**

This course introduces students to the political struggle for Lesbian, Gay, Bisexual, and Transgender (LGBT) equal rights in the United States using a model of political empowerment, which may be applied for all minority or identity groups and social movements, generating operationalized measures of progress toward the loci of political power. (Cross-listed with PSCI 8105, PSCI 3100, WGST 8105)

**Prerequisite(s):** PSCI 1100 is recommended.

**Distribution:** U.S. Diversity General Education course

**WGST 3120 WOMEN AND THE BIBLE (3 credits)**

This course explores the characterization of women in Hebrew and Christian scriptures as well as what we can learn about the lives of women in the ancient world from these and other sources. Attention is also given to the reception and use of these texts in later historical periods including contemporary religious contexts. (Cross-listed with RELI 3130).

**WGST 3130 WOMEN AND POLITICS (3 credits)**

This course introduces students to women's political participation, including holding elective office, socialization, the feminist movement and its opposition, and public policies with particular impact on women. The focus is on contemporary perspectives on women in American political ideas and behavior. (Cross-listed with PSCI 3130, PSCI 8135, WGST 8135)

**Prerequisite(s):** PSCI 1100 is recommended.

**Distribution:** U.S. Diversity General Education course

**WGST 3160 QUEER AMERICAN WESTS (3 credits)**

A survey of queer literatures about the American West. The course will explore a variety of genres, including poetry, short stories, plays, novels, creative nonfiction, and, depending on time, film/television. "Queer" will be construed as including any "non-normative" sexualities and sexual identities (e.g., genderqueer, winkle, two-spirit, 3rd/4th gender). Non-western writers (e.g., Walt Whitman) imagining the West queerly may also be included. (Cross-listed with ENGL 4280, ENGL 8286).

**Prerequisite(s):** ENGL 1160; completion of writing in the major course recommended.

**WGST 3180 GENDER IDENTITY IN PERSONAL WRITING (3 credits)**

Students will read a variety of memoirs and personal essays by both emerging and established LGBTQIA+ creative nonfiction writers and allies, with a focus on trans writers; analyze the craft choices each author makes; analyze textual and theoretical explorations of gender identity and gender performativity; and explore their gender identities, and gender experiences in the essays that they compose. (Cross-listed with ENGL 3180).

**Prerequisite(s):** ENGL 1150 and ENGL 1160 or equivalents required.

**WGST 3230 GENDER AND GLOBAL POLITICS (3 credits)**

This seminar introduces students to gender politics in comparative and international politics. (Cross-listed with PSCI 3230, PSCI 8235, WGST 8235)

**Prerequisite(s):** PSCI 2500 is recommended.

**Distribution:** Global Diversity General Education course

**WGST 3390 WOMEN, CRIME AND JUSTICE (3 credits)**

This course focuses on women's experiences in the criminal justice system. The course will examine women's experiences as victims of crime, as offenders, as prisoners, and as criminal justice professionals. (Cross-listed with CRCJ 3390)

**Prerequisite(s):** Sophomore standing or instructor permission.

**Distribution:** U.S. Diversity General Education course

**WGST 3490 GENDER AND PHILOSOPHY (3 credits)**

This course examines philosophical arguments concerning gender and sexual difference, gender issues and women in the history of philosophy, and major views in feminist theory. Using arguments derived from feminist theory, we will undertake a critical inquiry into the ways in which gender, geography, and power inform political institutions and, in particular, medical research and health disparities. Taking the perspective of women's lives from across the globe through case studies, we will interrogate feminist theory in relation to non-US perspectives on gender and sexuality. (Cross-listed with PHIL 3490).

**Prerequisite(s):** Sophomore status OR 6 hours of PHIL OR 6 hours of WGST.

**Distribution:** Global Diversity General Education course

**WGST 3750 GENDER AND COMMUNICATION (3 credits)**

This course provides a survey of literature on communication about, by, and between women, men, and trans people in society, personal relationships, and organizations. Students develop an understanding of how cultural meanings of gender both shape and are shaped by communication. (Cross-listed with CMST 3750).

**Prerequisite(s):** Not open to non-degree graduate students.

**Distribution:** U.S. Diversity General Education course

**WGST 4000 SPECIAL TOPICS: GENDER & SEXUALITY IN ENGLISH STUDIES (3 credits)**

A study of designated specific topics related to gender and sexuality studies at the Senior level within the disciplines of English (May be repeated for credit as long as the topic is not the same.)

**Prerequisite(s):** Variable according to topic

**WGST 4030 PERSONAL LEADERSHIP (3 credits)**

In addition to a survey of leadership styles and theories, this course provides historical and contemporary perspectives of gender and leadership, barriers to women's leadership, bias, and discrimination. Individual leadership is examined within the context of being a change agent. This is a service learning course.

**Prerequisite(s):** WGST 2010 or WGST 2020

**WGST 4060 HISTORY OF WOMEN IN AMERICA FROM 1875 - 1922 (3 credits)**

This course examines the history of women in the United States from 1875 to 1922. Topics include law, work, sexuality and reproduction, immigration, civil rights, political participation and party politics, and changes to the American gender system, including family structure and employment. (Cross-listed with HIST 4060, WGST 8066, and HIST 8066).

**Prerequisite(s):** Junior or permission of instructor.

**WGST 4070 GENDER AND LEADERSHIP CAPSTONE: COMMUNITY ACTION PROJECT (3 credits)**

This course is designed for students in the final stage of the Gender and Leadership Certificate. Activities focus on practical experience in an organization that will allow students to exercise, observe, and later share lessons with classmates about leadership qualities and skills.

**Prerequisite(s):** WGST 2010 or WGST 2020 and either WGST 3020 or WGST 4030

**WGST 4120 BLACK WOMEN LEADERS IN LIBERATION MOVEMENTS (3 credits)**

This course studies scholarship on race, gender, and leadership with a specific focus on African and African descended women's roles in liberation movements in the U.S. and worldwide. Especial focus will be on the use of their personal narratives to analyze the wide range of ideas in the conception and execution of leadership. (Cross-listed with BLST 4120, BLST 8126).

**Prerequisite(s):** Junior standing or permission of instructor.

**WGST 4130 GENDER & LEADING SOCIAL CHANGE (3 credits)**

This course will cover theories, philosophies, movements, and concepts related to social change as a process and outcome. It is a service-learning course.

**Prerequisite(s):** WGST 2010 or 2020. Junior standing or permission.



**WGST 4150 GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (3 credits)**

An advanced seminar focused on links among geography, gender and work, emphasizing leadership and entrepreneurship. The course considers theory and method in addition to empirical work. The nature of space, of gender, and of work, are examined. Topics include the gendering of work, the geography of entrepreneurship, gender and leadership. (Cross-listed with ENTR 4150, ENTR 8156, GEOG 4150, GEOG 8156 and WGST 8156).

**Prerequisite(s):** Junior, senior, or graduate standing, or permission of instructor.

**WGST 4210 GEOGRAPHIES OF SEXUALITIES (3 credits)**

How are geography and sexuality related? What have cities got to do with sexual identities? Can rural spaces foster diverse sexual communities? These and related questions are the focus of this upper-level undergraduate and graduate-level course. Students read scholarly work by and about LGBTQ+ (Lesbian, Gay, Bisexual, Transgender, Queer, and +), and cisgender people, and their lived experiences creating and inhabiting different geographies. Students gain an appreciation for the social construction of diverse sexualized spaces and considers questions about equity and policy through case studies in a variety of countries. Each student also researches a course-relevant topic they choose. (Cross-listed with GEOG 8216, GEOG 4210, WGST 8216).

**Prerequisite(s):** GEOG 1000, GEOG 1020, WGST 2010, or WGST 2020, or junior standing, or permission of the instructor.

**WGST 4250 WOMEN'S STUDIES IN LITERATURE (3 credits)**

A critical study of literature by and/or about women in which students learn about contributions of women to literature, ask what literature reveals about the identity and roles of women in various contexts, and evaluates standard interpretations from the perspectives of current research and individual experience. (Cross-listed with ENGL 4250, ENGL 8256).

**Prerequisite(s):** ENGL 1160 and one additional course in literature or permission.

**WGST 4270 WOMEN WRITERS OF THE NORTH AMERICAN WEST (3 credits)**

A survey of U.S. and Canadian women writers (18th century to the present) enabling students to examine issues of gender and sexuality across a wide thematic range, including settlement, land use, cultural displacement, and survival in western territories, states, and provinces of North America. (Cross-listed with ENGL 8276, ENGL 4270).

**Prerequisite(s):** ENGL 1150 and ENGL 1160 or equivalent; completion of ENGL 2410 or other writing in the major course recommended.

**WGST 4550 HEALTH ASPECTS OF AGING (3 credits)**

This course emphasizes health promotion for older adults. Special health needs of older Americans are compared and contrasted with health needs for other age groups. Prevention or delaying of chronic diseases and disorders are emphasized. (Cross-listed with PHHB 4550, PHHB 8556, GERO 4550, GERO 8556)

**WGST 4560 FRANCOPHONE WOMEN WRITERS: EXILES, MADWOMEN, AND WITCHES (3 credits)**

This course is an introduction in English to the rich variety of writing produced by women during the twentieth and twenty-first centuries from across the French-speaking world. We will focus on a selection of contemporary works by French and francophone women writers who lived and/or wrote in Canada, France, Guadeloupe, Haiti, North Africa, Senegal, and Quebec. The texts lend themselves to an exploration of many topical critical issues, including the construction of identity, the (re)presentation of history, the reliability of memory, and the effects of colonialism on different societies. In addition to our discussions of narrative motifs and technique, we will also look at the geopolitical and cultural contexts of these literary works, giving special attention to representations of gender, race, and class. (Cross-listed with FREN 8566, ENGL 4560, FREN 4560).

**Prerequisite(s):** Prereq: ENGL 1160 and one additional course in literature at the 2000 level or higher or permission.

**WGST 4910 TOPICS IN WOMEN'S HISTORY (3 credits)**

A course on selected topics offered on a one-time or occasional basis. Course may be repeated as long as the topic is different each time. Cross listed with WGST 4910/WGST 8916 when topics are appropriate to Women's and Gender Studies.

**Prerequisite(s):** Junior

**WGST 4930 SPECIAL TOPICS IN GENDER AND ART HISTORY (1-3 credits)**

An illustrated lecture course dealing with a limited topic in the field of art history. The course may be coordinated with an external event such as an exhibition, publication or study trip.

**Prerequisite(s):** To be determined by the instructor based upon the preparation required for an adequate understanding of the material of the course. Lab fee required.

## World Languages and Literature (WLL)

### World Languages and Literature Undergraduate Courses

**WLL 1000 LINGUISTIC DIVERSITY IN US MEDIA (3 credits)**

Delivered in English, this course introduces students to diversity in the US using language in context as points of departure. In this course, we analyze the intersection between language and ideological constructions (e.g., the objectification of Latino women, discrimination and stereotypes toward Asian peoples) and examine nodes of social meaning through visual and audio representations of language, as consumed in music, tv series, art (e.g., street art, installations) and social media. Departing from a US-centric and an assimilative approach, the course provides a historical and geographic lens through which these languages exist in the United States. (Cross-listed with FREN 1010, GERM 1010, JAPN 1020, SPAN 1010).

**Distribution:** Humanities and Fine Arts General Education course and U.S. Diversity General Education course

**WLL 2520 SPECIAL TOPICS IN WORLD LANGUAGE AND CULTURE I (2 credits)**

WLL 2520 is a language-open special topics course, primarily for non-majors. Students in this course will study linguistic and cultural topics not usually included in the curriculum. This could include development in linguistic and cultural proficiency in target languages not normally offered or in the study of specialized topics related to language, culture, literature or film studies.

**WLL 2530 SPECIAL TOPICS IN LANGUAGE AND CULTURE I (3 credits)**

WLL 2530 is a language-open special topics course, primarily for non-majors. Students in this course will study linguistic and cultural topics not usually included in the curriculum.

**WLL 3520 SPECIAL TOPICS IN WORLD LANGUAGE AND CULTURE II (2 credits)**

WLL 3520 is a language-open special topics course, primarily for non-majors. Students in this course will study advanced linguistic and cultural topics not usually included in the curriculum. This could include development in linguistic and cultural proficiency in target languages not normally offered or in the study of specialized topics related to language, culture, literature or film studies.

**WLL 3530 SPECIAL TOPICS IN LANGUAGE AND CULTURE II (3 credits)**

WLL 3530 is a language-open special topics course, primarily for non-majors. Students in this course will study advanced linguistic and cultural topics not usually included in the curriculum.



**WLL 4010 MULTIDISCIPLINARY APPROACHES TO THE STUDY OF LANGUAGE, CULTURE, AND SOCIETY (3 credits)**

This interdisciplinary course examines the dynamic connections between language, culture, and society by drawing from multiple fields of study including linguistics, cultural studies, and literature. Through various lenses, students explore topics such as cultural norms, social structures, individual identities, and intercultural communication. (Cross-listed with WLL 8016).

**WLL 4800 INTERNSHIP FOR LANGUAGE IN CONTEXT (3 credits)**

This course provides students with practical, hands-on experience in a professional setting related to their language studies. This course offers an opportunity for students to apply their language skills in real-world contexts while gaining valuable insights into various industries, organizations, or institutions. (Cross-listed with SPAN 4800).

**Prerequisite(s):** Instructor permission. Not open to non-degree graduate students.

## Writer's Workshop (WRWS)

### Writer's Workshop Undergraduate Courses

**WRWS 1010 CONTEMPORARY WRITERS: IN PERSON IN PRINT (3 credits)**

An introduction to reading contemporary literature by studying the ways in which a writer shapes a poem or tale to communicate with an audience. Emphasizes the most contemporary prose and poetry and includes a series of readings and classroom visits by guest writers whose books are the texts for the class.

**Prerequisite(s):** ENGL1160 or equivalent. Not open to non-degree graduate students.

**WRWS 1500 INTRODUCTION TO CREATIVE WRITING (3 credits)**

An introduction for non-majors in creative writing to the art and craft of writing fiction, poetry, and creative nonfiction. Follows a workshop format based on individual and group critique of students' writing, discussion of principles and techniques of the craft, and reading and analysis of instructive literary examples.

**Prerequisite(s):** ENGL1160

**Distribution:** Humanities and Fine Arts General Education course

**WRWS 2000 SPECIAL STUDIES IN WRITING (3 credits)**

Offers varying subjects in writing and reading for the basic study of special forms, structures and techniques of imaginative literature. Consult the current class schedule for the semester's subject. May be repeated for credit with change of subject.

**Prerequisite(s):** ENGL 1160. Not open to non-degree graduate students.

**WRWS 2050 FUNDAMENTALS OF FICTION WRITING (3 credits)**

A study of the ways in which writers confront the technical choices of their craft, this course introduces students to the major elements of fiction in order to increase their critical awareness both as readers and writers and to prepare them for work in succeeding fiction studios.

**Prerequisite(s):** Prerequisite(s)/Corequisite(s): ENGL1160 or equivalent.

**WRWS 2060 FUNDAMENTALS OF POETRY WRITING (3 credits)**

This beginning writing course in poetry emphasizes the manner in which poets meet and deal with the technical choices confronting them in the making of a poem. Written work introduces students to a number of established forms in order to increase an understanding of the elements of a successful poem.

**Prerequisite(s):** ENGL1160 or equivalent. Not open to non-degree graduate students.

**WRWS 2100 BASIC FICTION STUDIO (4 credits)**

A basic workshop course in fiction writing, studying the shapes and techniques of composing complete fictions. This is the first of four fiction studios.

**Prerequisite(s):** WRWS2050

**WRWS 2200 BASIC POETRY STUDIO (4 credits)**

This beginning level studio explores different poetic forms and encourages the development of the writer's voice.

**Prerequisite(s):** WRWS 2060

**WRWS 2300 BASIC CREATIVE NONFICTION STUDIO (4 credits)**

A beginning studio in various forms and craft techniques of creative nonfiction. Students study and practice writing such forms as the personal essay, the memoir, the adventure narrative, the essay of issues, etc.

**Prerequisite(s):** WRWS 2050 or 2060. Not open to non-degree graduate students.

**WRWS 2400 FOUNDATIONS OF SCREENWRITING (3 credits)**

This course introduces the student to the foundational elements of screenwriting. The student will learn and practice the techniques of conveying a story in images and sound, creating characters with human motives and conflicts, editing for economy and thematic significance. Proper script formatting will be taught and expected.

**Prerequisite(s):** English 1160 or equivalent.

**Distribution:** Humanities and Fine Arts General Education course

**WRWS 2600 BASIC SCREENWRITING AND TELEVISION WRITING STUDIO (4 credits)**

This studio introduces the fundamentals of screenwriting. The student will produce a pitch, outline and completed industry-standard screenplay that conveys a story, creates characters, and is edited for economy and theme. Proper script formatting will be taught and expected.

**Prerequisite(s):** WRWS 2050, or WRWS 2060. Not open to non-degree graduate students.

**WRWS 3000 SELECTED TOPICS IN WRITING (1-3 credits)**

This course presents selected theoretical and practical approaches to crafting one or more the following genres: poetry, fiction, creative nonfiction, screenwriting, young adult literature, the video game narrative, or the graphic novel. Specific topics for the course will vary from semester to semester. Consult current class scheduled for the semester's topic(s). This course may be repeated for credit as a different course under a new topic

**Prerequisite(s):** Vary according to specific topics being offered

**WRWS 3010 LITERARY MAGAZINE: STAFF & RESEARCH (3 credits)**

This course provides hands-on experience to staff members of UNO's literary journal, 13th Floor. Staff will read and assess submitted manuscripts, assisting appointed genre editors to produce the annual spring issue. In addition to learning editorial procedures, publication processes, and jargon, students at this level will become familiar with national literary journals through research and analysis. May be repeated up to six hours.

**WRWS 3020 THE BUSINESS OF WRITING & PUBLISHING (3 credits)**

This class will teach students to navigate the literary landscape as publishing writers and as editors. Students will research literary niches, diverse digital and print publications, editing and publishing practices, terminology, and relevant applications. In preparation for roles in editing and publishing, students will identify and refine individual creative and editorial goals to be conveyed in professional settings and documents, such as CV/resume, cover letter, prepared submission, biographical note.

**Prerequisite(s):** WRWS 3010. Not open to non-degree graduate students.

**WRWS 3030 ADVANCED CONTEMPORARY WRITERS (3 credits)**

This advanced course explores contemporary literature by studying the ways in which writers in multiple genres shape their work to communicate with an audience. It emphasizes the most contemporary prose and poetry and includes a series of readings and classroom visits by guest writers whose books are the texts for the class.

**Prerequisite(s):** ENGL 1160 or equivalent.

**WRWS 3100 INTERMEDIATE FICTION STUDIO (4 credits)**

An intermediate course in fiction writing. Emphasis on developing complete short stories or constructing a novel.

**Prerequisite(s):** WRWS 2100 or permission of instructor. Not open to non-degree graduate students.

**WRWS 3200 INTERMEDIATE POETRY STUDIO (4 credits)**

An intermediate course in the making of poetry, this class will focus on the study of traditional and contemporary models, as well as crafting original poems.

**Prerequisite(s):** WRWS 2200. Not open to non-degree graduate students.

**WRWS 3300 INTERMEDIATE CREATIVE NONFICTION STUDIO (4 credits)**

An intermediate-level studio course in forms and crafting techniques of creative nonfiction. Students study and practice writing within such forms as the literary essay, the essay of issues, historical nonfiction, the nonfiction novel, etc.

**Prerequisite(s):** WRWS 2300 or permission of instructor. Not open to non-degree graduate students.

**WRWS 3440 EXPLORING ART THERAPY (3 credits)**

This course provides an overview of the field of art therapy and the use of therapeutic art. Topics covered include: The historical use of art as healing across cultures, the contemporary use of art therapy with various populations and settings; an introduction to the theories, techniques; and the profession of art therapy. Students participate in representative art therapy activities, but previous art experience is neither required nor expected. This course does not qualify participants to practice art therapy but will provide information on its safe and effective utilization by health professionals. (Cross-listed with ART 3440, MEDH 3440, THEA 3440).

**WRWS 3500 CREATIVE WRITING FOR THE ARTS (3 credits)**

An introduction to the art and craft of writing fiction, poetry, creative nonfiction, and analyses of works in art, music, and journalism/political rhetoric. Intended for non-majors in creative writing, and tailored to the needs of other arts disciplines, notably those in CFAM, the course will follow a workshop format based on individual and group critique of students' writing, discussion of principles and techniques of craft and selected literary readings. Students will also experience and analyze other arts forms, which may include exhibits of visual and performance art, journalistic essays and/or political speeches.

**Prerequisite(s):** ENGL 1160 or equivalent.

**Distribution:** Writing in the Discipline Single Course and Humanities and Fine Arts General Education course

**WRWS 3600 INTERMEDIATE SCREENWRITING STUDIO (4 credits)**

This course will build on the foundation established in the Beginning Screenwriting Studio (2600). The student will complete and revise the first draft of a feature-length screenplay. The student will also pitch, note-card, and begin writing a speculation script for television. The class will attend Film Streams once a month to view the current independent offering. There will be lectures and assigned reading. The course will culminate in the student beginning work on a second feature-length screenplay.

**Prerequisite(s):** WRWS 2600. Not open to non-degree graduate students.

**WRWS 3800 THE WRITER'S VOICE: AUTHORS ON THE PAGE AND AT THE PODIUM (3 credits)**

This course will serve as an introduction to the art and craft of fiction, poetry, and creative nonfiction, as well as to analyses of written and publicly performed works of creative writing. This course is open to students who are not creative writing majors, and it is tailored to the needs of other arts disciplines, notably those in CFAM. WRWS 3800 will involve students crafting reflective, analytical, and creative writing based on the texts and video recorded public readings of visiting authors.

**Prerequisite(s):** ENGL 1160 or equivalent

**Distribution:** Writing in the Discipline Single Course

**WRWS 3990 INDEPENDENT STUDIES (3-6 credits)**

For the writing major who has need of work not currently available in program offerings and who has demonstrated a capacity for working independently. Emphasis on in-depth study in some specific aspect of writing.

**Prerequisite(s):** Permission of instructor. Not open to non-degree graduate students.

**WRWS 4000 FORM AND THEORY (3 credits)**

Advanced study of varying forms, structures, and techniques in creative writing. Specific topics of study may change each semester, and students may repeat the course under a new topic. Consult current class schedule.

**Prerequisite(s):** Completion of WRWS 2100 or 2200 or 2300, varies according to specific topics offered.

**WRWS 4010 LITERARY MAGAZINE: EDITING & PRODUCTION (3 credits)**

Students in this class will serve on the editorial team of UNO's literary journal, 13th Floor, in one of the following positions: Editor-in-Chief, Creative Nonfiction Editor, Fiction Editor, Poetry Editor, Screenwriting Editor, Layout & Design Editor, Managing & Promotions Editor, or Assistant Editor. Editors will be selected by the faculty advisor/instructor through an application process prior to spring semester. Student editors will oversee respective genre teams to select final submissions for inclusion in the annual issue of 13th Floor and will work as an editorial team to bring the journal from submission to print. Course offered in spring semester only.

**Prerequisite(s):** WRWS 3010 or by permission of instructor/faculty advisor.

**WRWS 4100 ADVANCED FICTION STUDIO II (4 credits)**

An advanced course in fiction in which students write and edit the most fully-developed short stories and/or novel sections of their college career, as well as read, analyze, and discuss assigned texts. Students examine the techniques of fiction writing, use the vocabulary and perspective they have gained so far to discuss their and others' work. They draw upon aspects of the self, the senses, imagination and memory to produce texts unique to their own voice and experience. (Cross-listed with WRWS 4110, WRWS 8116)

**Prerequisite(s):** WRWS 3100 or permission of instructor. Not open to non-degree graduate students.

**WRWS 4110 ADVANCED FICTION STUDIO II (4 credits)**

An advanced course in fiction in which students write and edit the most fully-developed short stories and/or novel sections of their college career, as well as read, analyze, and discuss assigned texts. Students examine the techniques of fiction writing, use the vocabulary and perspective they have gained so far to discuss their and others' work. They draw upon aspects of the self, the senses, imagination and memory to produce texts unique to their own voice and experience. (Cross-listed with WRWS 4100, WRWS 8116)

**Prerequisite(s):** WRWS 3100 or permission of instructor. Not open to non-degree graduate students.

**WRWS 4200 ADVANCED POETRY STUDIO I (4 credits)**

An advanced course in poetry writing. Emphasis on refining poetic technique. (Cross-listed with WRWS 8206)

**Prerequisite(s):** WRWS 3200 or WRWS 4210 or permission of instructor. Not open to non-degree graduate students.

**WRWS 4210 ADVANCED POETRY STUDIO II (4 credits)**

An advanced course in poetry writing with an emphasis on refining poetic technique and expression.

**Prerequisite(s):** WRWS 3200 or WRWS 4200 or permission of instructor. Not open to non-degree graduate students.

**WRWS 4300 ADVANCED CREATIVE NONFICTION STUDIO (4 credits)**

An advanced studio course in writing creative nonfiction. The course provides a context in which the student continues to practice techniques of literary nonfiction through the process of writing and rewriting.

**Prerequisite(s):** WRWS 3300 or permission of instructor. Not open to non-degree graduate students.

**WRWS 4310 ADVANCED CREATIVE NONFICTION STUDIO II (4 credits)**

An advanced studio course in writing creative nonfiction. The course provides a context in which the student continues to practice techniques of literary nonfiction through the process of writing and rewriting.

**Prerequisite(s):** WRWS 2300 and WRWS 3300, or permission of instructor. Not open to non-degree graduate students.

**WRWS 4600 ADVANCED SCREENWRITING STUDIO I (4 credits)**

This class will focus on the craft of screenwriting: plot, format, substance, style, scene development, film structure (both independent and main stream), three dimensional characters, and precise, professional dialogue. The student will complete a feature-length screenplay over course of the semester. There will be lectures and assigned reading. Once a month the student will view the current independent offering at Film Streams. This class will guide the student in completing a work portfolio, querying agents, applying to internships, and preparing for a career in film and television. (Cross-listed with WRWS 8606).

**Prerequisite(s):** WRWS 2600 and WRWS 3600.

**WRWS 4610 ADVANCED SCREENWRITING STUDIO II (4 credits)**

This class will build on the knowledge gained in Beginning Screenwriting Studio (WRWS 2600) and Intermediate Screenwriting Studio (WRWS 3600). The student will complete a second feature-length screenplay and an original pilot for television. There will be lectures and assigned reading. Once a month the student will view the current independent offering at Film Streams. This class will guide the student in completing a work portfolio, querying agents, applying to internships, and preparing for a career in film and television after graduation.

**Prerequisite(s):** WRWS 2600 and WRWS 3600. Not open to non-degree graduate students.

**WRWS 4990 SENIOR THESIS (3-6 credits)**

An option for the writing majors in their last year of study to enable them to prepare a body of original work in their areas of concentration for judging by a committee of faculty.

**Prerequisite(s):** Permission of department chair and thesis advisor. Not open to non-degree graduate students.



# GRADUATE

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# Catalog Introduction

Welcome to the 2025-2026 graduate catalog for the University of Nebraska at Omaha (UNO).

For over 100 years, UNO has helped professionals advance their careers through a wide array of award-winning affordable graduate programs. We focus our attention, expertise, and resources on our most important responsibility—our students.

We offer over 90 graduate programs at master's, EdS, PhD and certificate levels, providing you advanced education opportunities, to explore in this catalog. UNO is recognized as a Carnegie Doctoral Research University. Our graduate faculty represents the very best in their fields, earning national teaching awards, and they are dedicated to individual student instruction and mentoring.

Utilize this catalog as a resource to help you prepare and develop new professional skills through a graduate degree. If you have any questions or need advice, please contact the Office of Graduate Studies.

Juan F. Casas, PhD  
Dean for Graduate Studies

- **Catalog Purpose (p. 22)**
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## Graduate College

### University of Nebraska Graduate College Organization

In 1971, at the direction of the Board of Regents, the Graduate College of the University of Nebraska (UNL and UNMC) and the Graduate College of the University of Nebraska at Omaha were merged to form one University-wide Graduate College with one Graduate Faculty. The ultimate academic authority for all graduate programs within the University is vested in the approximately 1700 members of the Graduate Faculty.

The Bylaws of the Board of Regents state that the Executive Vice President and Provost of the University of Nebraska shall serve as Dean of the University-wide Graduate College and as presiding officer of the Graduate Faculty and councils thereof. The legislative and academic authority of the Graduate Faculty is vested in the Executive Graduate Council, comprised of eight members elected by the graduate faculty. Specific responsibilities of the Dean and of the Executive Graduate Council can be found in the University of Nebraska Graduate College Governance document.

On each campus of the university in which graduate programs are housed, there is a campus Dean for Graduate Studies, a campus graduate faculty, and a campus graduate council. The UNO Dean for Graduate Studies administers graduate programs and policies on that campus; serves as presiding officer of the UNO graduate faculty and the UNO graduate council; and forwards to the Dean of the Graduate College matters which are of university-wide concern. The UNO graduate faculty consists of those members of the university-wide graduate faculty administratively assigned to UNO. The UNO graduate council acts as an advisory body to the UNO Dean for Graduate Studies, coordinates the graduate studies on the UNO campus, and recommends to the executive graduate council actions affecting students and programs on more than one campus. This council consists of 22 elected or appointed faculty members and two graduate student members. Specific responsibilities of the Dean for Graduate Studies and of the UNO graduate council may be found in the document "Organization of Graduate Studies: University of Nebraska at Omaha."

## University of Nebraska at Omaha Graduate Studies

As a graduate student, you will partner your ambition with a world-class education at UNO. Our office partners with you on this journey from start to finish. Once you have applied, your application will be sent to the appropriate graduate admission committee for review. Upon review, we will notify you of an admission decision.

Once admitted and enrolled in courses, we continue the journey with you. You will have the opportunity to apply for graduate assistantships, scholarships, travel awards, attend workshops, and have access to professional development opportunities. In addition, we provide academic support by monitoring your degree plan, grades, and quality of work. As you near completion of your degree, we provide guidance and support as you prepare for graduation.

UNO's six academic colleges provide rigorous graduate academic programs, taught by faculty who are national and international experts in their fields. All of UNO's colleges offer unique opportunities in research and hands-on experiences that are critical to gaining an edge in a competitive global workforce.

If you need to contact us at any point of your journey at UNO we can be contacted by phone, email, and in person to assist you with any graduate studies needs you may have.

Contact Us:

UNO Office of Graduate Studies  
6001 Dodge Street  
108 Eppley Administration Building (EAB)  
Omaha, NE 68182-0209

gradschool@unomaha.edu  
Main: 402.554.2341  
Toll Free: 800.858.8648  
Fax: 402.554.3143

## Graduate Student Learning Outcomes

Preamble: The following student learning outcomes for master's level graduate programs were synthesized from the breadth of existing graduate student learning outcomes and represent commonalities in most programs.

Students shall demonstrate at the graduate level:

1. Mastery of discipline content
2. Proficiency in analyzing, evaluating, and synthesizing information
3. Effective oral and written communication
4. Demonstrate knowledge of discipline's ethics and standards

## Admissions

### Prospective Applicants

An online Application for Graduate Admission must be filed with Graduate Studies for students who:

- Desire a graduate degree or graduate certificate
- Desire graduate credit for renewal of a teaching certificate or professional development
- Desire to transfer graduate credit to another university
- Desire to fulfill prerequisites for a future degree-seeking program
- Students who wish to change programs must complete a new graduate application and submit a non-refundable graduate application fee and other required documents. Admission to a new program is not automatically granted.
- Students applying for a second master's degree, graduate certificate, or taking additional graduate courses must complete a new graduate application and submit a non-refundable application fee and other required documents.
  - While it is possible to receive master's degrees in various disciplines, individuals cannot apply or be admitted into a program for which a degree has already been awarded. UNO is unable to confer a degree for the same program multiple times. Additionally, federal financial aid regulations prohibit a student from receiving aid if they are in a program that does not lead to a degree.

*Special Note:*

- All students must complete a graduate application in order to receive graduate credit for any graduate-level courses taken at UNO. Special permission is required for UNO junior-or senior-level undergraduate students to register for graduate courses. Additionally, students admitted to graduate programs at other University of Nebraska campuses may complete the intercampus registration form. For additional information, please see Enrollment (p. 975).

## Application Process

- The Application for Graduate Admission must be completed online. The online application will specify all of the required documentation for the specific program prior to the program application deadline.
- A non-refundable application fee is required for all applications. This includes undergraduates within the University of Nebraska system, and students who have been previously admitted as graduate students at the University of Nebraska-Lincoln, the University of Nebraska at Kearney, or the University of Nebraska Medical Center.
  - The application fee will be waived for:
    - McNair Scholars who provide the McNair Certification of Participation form
    - Undergraduate Pell Grant recipients who provide their current Student Aid Report (SAR)
    - AmeriCorps with Certification of Service Letter if service is completed, or official documentation of current service start date and expected end date
    - Military and Veteran Applicants: The application fee is waived for all military and veteran applicants and dependents with proof of military status. Please provide one of the following documents as proof of military status:
      - Military orders
      - Notice of Basic Eligibility (NOBE)
      - DD214
      - All military includes: Active Duty, Guard, Reserve, and Veterans

## Transcripts

- To expedite the processing of the graduate application, unofficial transcripts/course-by-course transcript evaluations and exam scores can be uploaded to the application. If offered admission, official transcripts/course-by-course transcript evaluations and exam scores are **required** prior to enrolling in courses.
  - **International transcripts:** More information available here (<https://www.unomaha.edu/office-of-graduate-studies/admissions/how-to-apply-international.php>).

## Readmission to Graduate Studies

A student who has not been enrolled as a graduate student at UNO for four years or more must apply as a new graduate student and submit the graduate application, the required non-refundable application fee, and all other required credentials. Applicants cannot apply to the same degree/certificate program once the degree/certificate has been awarded.

## Choice of Catalog Policy

The catalog year (requirement term) is what ties a student to the curriculum they are required to follow and determines the contract of degree requirements a student must fulfill to graduate. The catalog year defaults to the semester the student is admitted to their degree program; however, students are eligible to change to a more recent catalog year if it is to their benefit and approved by their graduate program chair. By changing catalogs, a student is responsible for fulfilling all of the graduation requirements in their newly chosen catalog year. A student may request a change in their catalog year by contacting the graduate program chair and/or advisor. If the request is supported, the graduate program chair and/or advisor must notify the Office of Graduate Studies via the degree audit system.

If a student's program has become discontinued due to non-enrollment, they will complete requirements based upon the academic year they are readmitted.

## Simultaneous Matriculation

Normally, no graduate student may be a degree-seeking student in more than one graduate program at the University of Nebraska, unless enrolled in an approved dual-degree program. Any exceptions must have prior

approval of every graduate program committee and every campus dean for Graduate Studies through which the programs are administratively assigned. When there is approved simultaneous matriculation, the same course credit will not be accepted for more than one degree without prior approval of every graduate program committee and every campus dean for Graduate Studies through which the programs are administratively assigned.

## Admission Criteria

Applicants who have earned, or will have earned, a bachelor's or master's degree at a regionally accredited college or university in the United States, or the equivalent of such degrees in another country, will be considered for admission. Prospective students may apply for admission during or after the final year of undergraduate study, but must submit the official baccalaureate degree transcript/course-by-course transcript evaluation to the Office of Graduate Studies before the end of the first year of enrollment.

*Special Note:* International students with a three-year degree are referred to the program in which they wish to pursue graduate studies to determine possible additional coursework. They can be considered for graduate admission, but admission is at the discretion of the individual departments/schools.

The decision to admit an applicant to a program is based primarily on a combination of the following criteria according to the requirements of the specific program:

- *Quality of previous undergraduate and graduate work.* The Graduate College requires a minimum "B" average (3.0 on a 4.0 scale) in a program of study resulting in the award of a baccalaureate degree from a regionally accredited college or university. Applicants who have earned a minimum cumulative GPA of 2.7 on a 4.0 scale can be considered for provisional admission. If an applicant has studied at the graduate level and performed satisfactorily, less weight may, but not necessarily, be placed on the quality of the undergraduate academic record. Some programs require a higher minimum grade point average for admission.
- *Strength of letters of recommendation* from persons competent to judge the applicant's probable success in graduate school. These letters are usually from the applicant's former professors who are able to give an in-depth evaluation of the applicant's strengths and weaknesses with respect to academic work. Additional recommendations may come from employers or supervisors who are familiar with the applicant's work experience.
- *Official scores on required aptitude or advanced knowledge examination(s).*
  - All applicants to Graduate Studies at UNO whose language of nurture is not English must present a score on the Test of English as a Foreign Language (TOEFL), the International English Language Testing System (IELTS), the Pearson Test of English (PTE), or Duolingo.
    - Automatic waivers from this policy are granted for persons who have received a baccalaureate or other advanced degree from an institution in the United States.
    - The TOEFL/IELTS/PTE/Duolingo requirement will also be waived for applicants who have received or will be receiving a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>).
    - The UNO Graduate Council has set a minimum score for admission to graduate studies, which can be found on our Entrance Exams (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) webpage. Individual programs may require higher scores as noted on their program page.
- *Statement by the applicant* of academic career objectives and their relation to the intended program of study. These statements help the

department/school identify students whose goals are consistent with its objectives.

- *Other evidence of graduate potential.* Some programs require other evidence of graduate potential, such as a portfolio of creative work, completion of specialized examinations, or personal interviews.

*Special Note:*

- If a currently enrolled graduate student is admitted to a graduate program prior to receipt of their final grades for the current semester, the program may re-evaluate its admission decision if the student receives a grade of "C-" or lower in any coursework (undergraduate or graduate) for that semester.
- Notification of acceptance by a department/school graduate program committee or faculty member is **advisory only**. Admission is granted solely by the dean for Graduate Studies.

## Record Maintenance and Disposition

All records, including academic records from other institutions, become part of the official file and can neither be returned nor duplicated for any purpose. Students may wish to obtain an additional copy of their official credentials to keep in their possession for advisory purposes or for other personal requirements. Transcripts provided to the university in support of a graduate application will be maintained for two years if the student does not enroll into the program to which they applied.

## Admission to the Graduate College

Responsibility for admitting applicants to graduate programs rests with the dean for Graduate Studies. Academic departments/schools review admission applications and credentials and make admission recommendations to the dean. The standards maintained by the Graduate College and individual departments/schools are applied to ensure that applicants admitted to the university are well qualified for graduate study and have a reasonable expectation of successfully completing a graduate program. Standards for admission to doctoral degree programs are generally higher than those for admission to master's degree programs. In many degree programs, the number of applications received from qualified applicants for graduate study exceeds the number of applicants who can be accommodated. In such cases, only the most highly qualified are offered admission. The number of spaces available in various departments/schools is limited according to the availability of faculty and resources.

## Categories of Admission

**Unconditional Admission** status may be granted to applicants considered fully qualified to undertake the program to which they were admitted. An applicant must have a baccalaureate degree from a regionally accredited institution with a minimum "B" average (3.0 on a 4.0 scale). Other qualifications might include, but are not limited to academic foundation requirements, an interview, area of subject tests, advanced tests, a portfolio or performance, grade point average, and/or letters of recommendation.

**Provisional Admission** status may be granted to applicants who have not met all of the conditions for unconditional admission. Departments/schools and/or the dean for Graduate Studies may impose certain requirements which must be fulfilled by the student in order to maintain this status.

- Provisional admission may be granted to an applicant who has less than a "B" average (3.0 on a 4.0 scale) in the undergraduate work in the proposed graduate major and minor (but in no case less than a 2.7 GPA). This admission may be granted for reasons of maturity, experience, or other circumstances under which the student may be deemed capable of high quality graduate study.
  - Provisional admission remains in effect until the student has earned at least a grade of "B" (3.0 on a 4.0 scale) in each course involved in

the first 12 hours of graduate study. The provisions are noted in the degree audit system for reference.

- Provisional admission may occasionally be granted to an applicant who has graduated from an unaccredited institution. Unconditional status may be attained upon completion of 12 hours of graduate courses with a "B" (3.0 on a 4.0 scale) average, providing all other requirements are met.
- Provisional admission may occasionally be granted to seniors at UNO needing no more than nine hours of undergraduate credit to complete their baccalaureate degree and wishing to register for graduate credit, subject to their receiving a baccalaureate degree within the 12-month period immediately following such registration. They must, however, apply for admission to graduate studies and, if admitted, they should register as graduate students. Graduate coursework taken prior to receipt of the baccalaureate degree may not always be accepted for transfer to other institutions, as graduate work, or for completion of degree requirements at UNO.

Provisional status will continue until provisions of admission are fulfilled or changed by the recommendation of the graduate program committee and approved by the dean for Graduate Studies.

## Graduate Certificate Programs

- Students must be enrolled in a graduate degree-seeking program in addition to a graduate certificate in order to be eligible for financial aid. Being enrolled in only a graduate certificate program does not make you eligible for financial aid.

## Unclassified Admission

**Unclassified admission** is available in limited departments/schools for students who:

- Are taking courses for professional growth or personal interest, but do not intend to pursue an advanced degree.
- Are enrolled in a graduate degree program at another institution and wish to transfer credits earned at UNO.
- Are working toward certification, additional endorsement, or renewal of certification in professional education.

Applicants applying for the unclassified category are not automatically entitled to this status upon application. The department/school reviews applications and the applicant may be turned down for this category, as with other categories of admission. International students on F1 visas, except graduate visiting students, are not eligible to enroll as unclassified students. **Applicants admitted as unclassified are not eligible for financial aid.**

*Special Note:* Successful completion of graduate courses as an unclassified student does not obligate a department/school to accept those courses for credit toward the fulfillment of degree requirements. Students who enroll under the unclassified designation and subsequently decide they wish to pursue a graduate degree must submit a new application, non-refundable application fee, and other required documents. Students must also consult with their advisor and the chair of the graduate program committee. If admission to the degree program is recommended, the department/school will advise the Office of Graduate Studies of the decision and the credits to be accepted toward the degree.

## Non-Degree Admission

### Verified Non-Degree Admission Status

Verified non-degree admission status may be available for an individual with an undergraduate or graduate degree from a regionally accredited institution who is not seeking a graduate degree from UNO. Applicants applying for the verified non-degree admission status need only submit an application for admission, the required application fee, and official degree transcript. A cumulative GPA of at least a 2.7 is also required.

## Limited Express Non-Degree Admission Status

Limited express non-degree admission status allows students to register for classes without waiting for the Office of Graduate Studies to receive official transcripts. Applicants applying for the limited express non-degree admission status need only submit an application for admission and the required application fee. Applicants requesting limited express non-degree admission will be eligible to register for one term only. The admission may be extended beyond one term only upon receipt of an official degree transcript with a cumulative GPA of at least a 2.7 on a 4.0 scale.

- UNO does not allow intercampus registration for non-degree students who are admitted under the Limited Express category. **Non-degree students are not eligible for financial aid.** Advisors are not assigned to non-degree students.

**Non-Degree students** are advised to consult with the appropriate department/school concerning class availability and prerequisites before attempting to register. Because of limited class size and resources, certain academic units may limit the enrollment of non-degree students. To determine whether a non-degree student is allowed to enroll in a graduate course, please check the course descriptions listed on the Class Search (<https://www.unomaha.edu/registrar/students/before-you-enroll/class-search/>).

**Admission to a degree program**, or to unclassified admission from non-degree status is not guaranteed. Graduate-level hours taken as a non-degree graduate student prior to admission into a master's degree program may be included in the program of study at the discretion of the major department/school and the graduate dean. Students changing from non-degree status may also be required to take certain prerequisite courses by the major department/school and the dean for Graduate Studies.

**International students** on F1 visas, except graduate visiting students, are not eligible to enroll under non-degree status. Non-degree students must maintain the same academic standards as degree-seeking students or unclassified students.

**Students dismissed from a graduate program** who then re-apply as non-degree students may only do so if they request and receive permission in accordance with departmental/school graduate program policy to enroll as a non-degree student.

## Enrollment

- **Enrollment (p. 975)**
- **Course Information (p. 976)**

## Enrollment

### Enrollment

All persons who attend classes at the University must be admitted to the University; they are required to register and pay the established tuition and fees. The dates, times, and procedures for registration are listed each semester on the Office of the University Registrar website (<https://www.unomaha.edu/registrar/students/>).

Learn more about enrollment here (p. 30).

## Immunization Requirements

Students born on or after January 1, 1957, must show official proof of receiving two (2) MMR shots (measles, mumps, and rubella). Future registration may be withheld if this requirement is not met. Domestic high school graduates who attended a high school in the United States are excused.

For additional information regarding health requirements, visit the Pre-Enrollment Health Requirements website (<https://www.unomaha.edu/nebraska-medicine-uno-health-center/new-student-health/>).

## Registration Requirements

Prior to the start of classes each session, students must register for courses according to instructions published on the University of Nebraska at Omaha (UNO) website. To be eligible to register, a new or re-admitted student must have completed all admission requirements. Prior to registering, a student should seek assistance from an academic advisor within their department/school. Some colleges and departments require advising prior to registering. Every student is encouraged to review the requirements for their intended degree with an assigned academic advisor. This review should be scheduled in preparation for and prior to each registration period.

Students who have outstanding debts or fees owed to the University will not be permitted to register until these obligations have been met. Due to limited facilities and staff, the University cannot guarantee all students will be able to enroll for every course they wish in each semester.

## Designation of Full-Time Status

Full-time graduate students at the University of Nebraska shall be defined as those students enrolled for at least nine credit hours during an academic semester, whether or not the student holds a graduate assistantship.

Students enrolling for more than 12 hours must have the approval of the Dean for Graduate Studies. In some programs special permission may be granted to take more than 12 hours as a regular load. Students should consult with the department/school for provisions.

## Dropping a Course

Students cannot drop courses after the date identified in the academic calendar for that semester. Exceptions may be made when there are extenuating circumstances. Students requesting an exception must obtain the instructor's certification that work in progress was at the "B" (3.0 on a 4.0 scale) level or higher. Approval of the request must be obtained from the Dean for Graduate Studies before the request to drop is submitted to the Office of the Registrar.

## Intercampus Enrollment

Graduate students within the Nebraska University system who have been admitted to a graduate program of study at another NU campus may register for graduate courses at UNO by using an Intercampus Registration Form, which can be found online ([https://csprdn.unomaha.edu/psc/csprdn/NBX/SA/s/WEBLIB\\_PTBR.ISCRIPT1.FieldFormula.IScript\\_StartPage/?ghcmd=saml](https://csprdn.unomaha.edu/psc/csprdn/NBX/SA/s/WEBLIB_PTBR.ISCRIPT1.FieldFormula.IScript_StartPage/?ghcmd=saml)).

## Change of Program

Except for non-degree students, students are admitted to specified programs for specified objectives. Therefore, students who wish to transfer to another program or department/school must complete a new graduate application and submit the required non-refundable application fee and other required documents. The decision as to whether students will be accepted shall be left to the graduate program committee of the department/school in which they are seeking admission and to the Dean for Graduate Studies. Admission to a new program is not automatically granted.

If a currently enrolled graduate student is admitted to another graduate program prior to receipt of their final grades for the current semester, the program may re-evaluate its admission decision if the student receives a grade of C- or lower in any coursework (undergraduate or graduate) for that semester.



## Course Information

Learn more about course information here (p. 35).

## Credit/No Credit Option for Courses Offered for Graduate Credit

The UNO graduate faculty does not, in general, allow the Credit/No Credit option for courses offered for graduate credit. However, each graduate program committee shall have the right to designate courses such as practica, independent studies or research courses on which this option could apply. Inquire in the Office of Graduate Studies about the availability of this option for specific courses.

The grade of "Credit" is interpreted to mean the equivalent of a grade of "B" (3.0 on a 4.0 scale) or better and is not considered in the calculation of grade point averages.

## Academic Program Requirements

- **Master's, EdS, Certificates, Dual Degrees, and Second Master's Degree Programs (p. 976)**
- **Doctoral Programs (p. 978)**

## Master's, EdS, and Certificate Programs

### Plan of Study for Master's, EdS, and Certificate Programs

At the time of admission to a degree and/or certificate program, an individual plan of study, also called a degree audit, will be made available to the student via MavLINK. This individual plan of study will list all requirements for completion of the degree program. These requirements may include deficiency courses and other provisions of admission, as well as exit requirements.

Any deviations to this plan of study, including transfer credit, must be approved by the student's advisor, graduate program committee chair, and dean for Graduate Studies. Any changes must be submitted by the graduate program chair to the Office of Graduate Studies only via the degree audit system. Upon approval, the student will be able to see the changes on their degree audit in MavLINK (<https://mavlink.nebraska.edu/psp/mavlink/NBO/HRMS/?cmd=login&languageCd=ENG&>).

A master's degree requires a minimum of 30 semester hours, however, additional credits may be required dependent on your degree program and exit requirement.

The EdS degree requires a minimum of 69 semester hours, however, additional credits may be required dependent on your degree program and exit requirement.

A graduate certificate requires a minimum of 12 semester hours, however, additional credits may be required dependent on your certificate program and exit requirement.

## Policies Applicable to the Plan of Study

- **Grade point average:** Students must maintain an overall GPA of "B" (3.0 on a scale of 4.0) in all graduate coursework taken as part of their degree. Some departments/schools have higher grade requirements as noted in this catalog and the degree audit system. Grades of "C-" or below result in dismissal from Graduate Studies and may not be used on a graduate plan of study. If a student re-registers for a course to improve their grade, they must work with the Office of the University Registrar to note this on their transcript.
- **Graduate course requirement:** At least one-half of the graduate coursework required for the degree program must be restricted to graduate students only (8-0 or 9-0). No more than two 8-5 courses are allowed on a plan of study. This is applicable to master's and EdS programs.
- **Time limit:** The degree program must be completed within 10 consecutive calendar years. Coursework that is over 10 years old (30 consecutive terms) at the completion of the degree program (as defined by the plan of study and including any exit requirements) cannot be used toward the degree. Departments/schools may require completion of the degree program in less than 10 years; this will be noted in the catalog and the degree audit system.

## Transfer of Graduate Credit

Approval of the transfer of graduate credit for coursework taken at another regionally-accredited university (including extension credit but not including correspondence courses) must be recommended by the appropriate advisor and graduate program chair, and submitted to the Office of Graduate Studies via the degree audit system for final approval by the dean for Graduate Studies. **In order for transfer credits to be applied, an official transcript showing completion of the course(s) must be on file with the Office of Graduate Studies.** Grades received in courses for transfer of credit must be the equivalent of "B" (3.0 on a scale of 4.0) or higher. Transfer of graduate credits from a course taken with a pass/fail option must be recommended by the relevant graduate program committee, supported by a written evaluation from the instructor, and approved by the dean for Graduate Studies. All work accepted for transfer of credit must have been taken within the prescribed time limits for graduate degrees and is subject to restriction if previously used to satisfy requirements for another graduate degree.

The only coursework from other institutions posted on the UNO transcript will be those recommended by the appropriate graduate program chair and approved by the dean for Graduate Studies.

## Transfer of Credits Taken Outside the University of Nebraska

Up to one-third of the coursework required for a graduate degree program may be accepted from an accredited institution other than a unit of the University of Nebraska when the transfer is supported by the student's advisor and the appropriate graduate program committee. Final approval will be made by the UNO dean for Graduate Studies. All other policies regarding graduate programs will apply.

## Transfer of Credits Taken at the University of Nebraska

There are no a priori limits on the transfer and applicability of credits earned in one program of the University of Nebraska toward meeting degree requirements in another such program, except as they are used to earn distinct degrees. However, such credits must be individually evaluated and approved by the appropriate graduate program committee and campus dean for Graduate Studies before they can actually be transferred. UNO students who wish to take courses at the University of Nebraska-Lincoln, the University of Nebraska Medical Center, or the University of

Nebraska at Kearney for transfer of credit should complete the online intercampus application ([https://csprdn.unl.edu/psc/csprdn/NBX/SA/s/WEBLIB\\_PTBR.ISCRPT1.FieldFormula.IScript\\_StartPage/?ghcmd=saml](https://csprdn.unl.edu/psc/csprdn/NBX/SA/s/WEBLIB_PTBR.ISCRPT1.FieldFormula.IScript_StartPage/?ghcmd=saml)).

## Second Master's Degree

Use of graduate credit earned for the first degree will be treated in the same manner as transfer credit from another institution if applied to the requirements for the second degree. Up to one-third of the coursework required for the second master's degree may consist of courses from a previous graduate degree. All other policies regarding graduate programs apply.

## Minor Field

A student must be in a degree-seeking graduate program at UNO in order to add a graduate minor. Students are not required by the graduate faculty to have a minor; however, a student may elect to complete a minor with the permission of both the major department/school and the minor department/school. In order to add a minor, the Change in Plan of Study (<https://www.unomaha.edu/office-of-graduate-studies/forms-and-resources/forms-documents.php>) form must be completed. This form must include the coursework applicable to the minor.

The minor requires a minimum of nine (9) graduate hours. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

## Exit Requirements

All master's and EdS degrees require a culminating experience. This may include a thesis, project, capstone, comprehensive examination, etc. If a certificate program has an exit requirement it will be noted in the catalog and degree audit system.

- Comprehensive examination results must be reported to the Office of Graduate Studies by the department/school via the degree audit system.

## Thesis, Thesis-Equivalent Project, and EdS Field Project

Students must file a Proposed Supervisory Committee (<https://www.unomaha.edu/office-of-graduate-studies/forms-and-resources/forms-documents.php>) form and a Thesis Proposal Approval (<https://www.unomaha.edu/office-of-graduate-studies/forms-and-resources/forms-documents.php>) form with the Office of Graduate Studies before initiating the thesis or EdS field project. This paperwork must be filed with the Office of Graduate Studies **at least one semester prior to the student's anticipated graduation date**. Students completing a thesis-equivalent project should consult with their department/school.

The supervisory committee consists of at least three graduate faculty members, one of whom must be from outside the student's academic department/school in which the degree is to be granted. The chair of the supervisory committee must be a member of the graduate faculty. The outside representative must hold graduate faculty status within the NU system. In addition to the minimum requirement of three graduate faculty members, other eligible persons may be recommended by the graduate program committee for appointment by the dean, to the supervisory committee, provided at least two-thirds of the membership of each committee is graduate faculty. Any changes to the supervisory committee after initial approval must be submitted via a new supervisory

committee form to the Office of Graduate Studies for approval by the dean for Graduate Studies.

A master's thesis, thesis-equivalent project, or EdS field project provides the opportunity for students to acquire first-hand experience in research or creative activities with the supervision of experienced faculty. A thesis or thesis-equivalent project is equivalent to six (6) semester hours of credit. The EdS field project is equivalent to three (3) semester hours of credit. Required course hours must be indicated on each student's plan of study. Grades for a thesis, thesis-equivalent project, or EdS field project are recorded on the permanent record after completion and approval by the department/school and the Office of Graduate Studies. For a thesis or thesis-equivalent project, grades will be either "S" for Satisfactory or "U" for Unsatisfactory. A letter grade will be recorded for the EdS field project.

The thesis, thesis-equivalent project, or EdS field project is not considered to be a publication; thus, it may be published, in whole or in part, and either quoted or paraphrased by giving appropriate credit to the relevant department/school, the Graduate College, and the University of Nebraska at Omaha.

The Supervisory Committee guides the student in the conduct and development of the thesis, thesis-equivalent project, or EdS field project and approves the final product. Typically, final recommendations from the supervisory committee or the supervisory committee chair are provided to the student at the time of the final oral examination, although details vary among departments/schools and individual faculty.

## Procedures

When the final version of the thesis/EdS field project has been approved by the supervisory committee, the student must submit the following to the Office of Graduate Studies for the final administrative steps in the approval process: Report on Completion of Degree (<https://www.unomaha.edu/office-of-graduate-studies/forms-and-resources/forms-documents.php>) form signed by the supervisory committee, and upload the thesis/field project to ProQuest (<https://www.unomaha.edu/office-of-graduate-studies/current-students/thesis-dissertation-support.php>). Final approval of the thesis/field project is contingent upon approval by the supervisory committee and the Office of Graduate Studies.

**NOTE:** If the thesis/EdS field project is to be held pending patent issuance, etc., the student must specify this at the time the PDF file is submitted to ProQuest (UMI).

An electronic version of the thesis or EdS field project (collectively referred to as ETDs) is required. An ETD is a document expressed in a format simultaneously suitable for machine archives and worldwide retrieval. Preparation of the ETD may be done using most word processor or document preparation systems that incorporate relevant multimedia objects.

As part of the ETD submission, students' abstracts are published in UMI's Master's Theses Abstracts publications. Upon submission, the student authorizes ProQuest to produce copies of their work on demand for a fee. However, the student may request that UMI not distribute (or embargo) their ETD until further notice (up to two years). Some reasons for this include patent pending, the student's employer requires a review of the work, or a publishing agreement requires initial publication.

**PLEASE NOTE:** There may be a fee to submit the ETD through ProQuest; the amounts are noted on their website.

After successfully uploading the thesis/EdS field project, the Office of Graduate Studies will be notified electronically by ProQuest of the submission and asked to provide final approval. Final approval of the thesis/EdS field project will not be granted if the Report on Completion of Degree form is not completed and on file in the Office of Graduate Studies.

Formatting and Submission Instructions (<https://www.unomaha.edu/office-of-graduate-studies/current-students/thesis-dissertation-support.php>)

## Doctoral Programs

### Doctoral Program Committee and Course Plan

A Doctoral Program Committee and Course Plan (<https://www.unomaha.edu/graduate-studies/current-students/graduate-forms-and-resources.php>) must be submitted to the Office of Graduate Studies no later than the end of your second semester in the doctoral program. This must include any language or research tool requirements (if applicable).

Generally, courses taken before admission to the doctoral program cannot be included in the Doctoral Requirements section of the program of study form. Please note that foundation courses and courses taken outside of the University of Nebraska Graduate College cannot be used to fulfill doctoral requirements. The program committee must include at least two members of graduate faculty from the student's program; this typically consists of the doctoral program chair and advisor. Any subsequent change in the program must be approved by the committee and the dean for Graduate Studies.

The minimum amount of graduate credit for the PhD is 90 semester hours, including a dissertation. Some programs require more hours. Please refer to the degree requirements for your individual degree.

The minimum amount of graduate credit for the EdD is 96 semester hours, including a dissertation. Please refer to the degree requirements for your individual degree.

### Admission to Candidacy

When the doctoral student has passed the comprehensive examination and established residency, according to the established policies of the doctoral program, the examination committee will recommend to the Office of Graduate Studies their admission to candidacy for the doctoral degree, noting in that recommendation the date(s) upon which the comprehensive examination was completed. As soon as possible after passing the examination, the examination committee convenes and reports to the Office of Graduate Studies the results of the examination by submitting the Application for Admission to Candidacy (<https://www.unomaha.edu/office-of-graduate-studies/forms-and-resources/forms-documents.php>) form. This form must be filed with the Office of Graduate Studies at least seven months prior to the final oral examination. If the term of candidacy is extended beyond three years (excluding summer terms), the candidate must pass another comprehensive examination. Following admission to candidacy, the student must register during each academic year semester (fall and spring) until they receive the PhD or EdD degree. Students not in residence may register for a minimum of one semester credit in dissertation. Failure to register during each academic year semester will result in termination of candidacy.

### Comprehensive Examination PhD

When a student has substantially completed studies in the program, they must pass a written comprehensive examination. The written comprehensive examination is not a repetition of course examinations; rather, it is an investigation of the student's breadth of understanding in the field of knowledge of which their special subject is a part. The student will also be required to pass an oral comprehensive examination.

The examination committee arranges for written or oral examinations. Should the student fail the comprehensive examination or a part thereof, they may be allowed to re-take it during the following academic term upon specific recommendation by the graduate program committee.

### EdD

When the applicant's program of study is substantially completed, comprehensive examinations that cover the appropriate field of study and related subjects will be administered. These examinations will thoroughly test for an understanding of the field of knowledge designated by the student. If an applicant fails the comprehensive examination, another attempt to pass such examination may not be made in the same academic term.

### Residency Requirement

A residency requirement has been established for the purpose of ensuring that the doctoral program be reasonably compact, continuous, and coherent; and that a substantial portion be done at and under the close supervision of the university. The residency requirement is part of the student's approved program.

In exceptional circumstances, where it is clear that the purpose of residency is being fulfilled but the formal conditions are not met, the student's examination committee and/or doctoral program chair may, with the approval of the dean for Graduate Studies, designate an alternative procedure for satisfying the residency requirement.

### Requirements for the PhD in Biomechanics and Kinesiology, PhD in Biomedical Informatics, PhD in Criminology and Criminal Justice, PhD in Gerontology, PhD in Computing & Information Science, and PhD in Psychology

- For a student beginning a doctoral program in the University of Nebraska system with a bachelor's degree, the residency requirement for the PhD is 27 hours of graduate work within a consecutive 18-month period or less, with the further provision that 15 of these hours must be taken after receiving the master's degree or equivalent.
- For a student who transfers to the University of Nebraska system with a master's degree from another institution, or who takes a break in their graduate work between the time the master's degree is awarded and the time they start work on a doctoral program, the residency requirement for the PhD is 27 hours of graduate work in a consecutive 18-month period or less.
- For a member of the university staff who is engaged at least half-time in instruction or research in their major area, or a person employed in their major field, the residency requirement is 24 hours of graduate work within a consecutive two-year period with the further provision they take at least 12 of these hours after receiving the master's degree or its equivalent.
- Not more than one-third of the work for residency, or nine credit hours, may be taken during the summer sessions.

### Requirements for the PhD in Public Administration and EdD degree

- The residency requirement for doctoral students in Educational Administration and Public Administration is 24 hours in 24 consecutive months. The student's examination committee and/or doctoral program chair may determine how many of the required residency hours may be taken during the summer sessions.

### Dissertation Committee

In order to assure that students are under careful advisement and mentoring, a dissertation committee must be established no later than the end of the semester that a student has completed their comprehensive examination.

The student must submit the Appointment of Dissertation Committee (<https://www.unomaha.edu/graduate-studies/current-students/graduate-forms-and-resources.php>) form consisting of at least four University of Nebraska graduate faculty members, one of whom must be from outside the student's academic department/school in which the doctorate is to be

granted. The chair of the dissertation committee must be a member of the graduate faculty. The outside representative must hold graduate faculty status within the NU system. In addition to the minimum requirement of four University of Nebraska graduate faculty members, other eligible persons may be recommended by the graduate program committee for appointment by the dean to the dissertation committee, provided at least two-thirds of the membership of each committee is graduate faculty. The establishment of a dissertation committee is based on the student's demonstrated ability in the fundamental subject matter of the student's major field and professional promise.

## Changes to the Dissertation Committee

Any changes to the dissertation committee after initial approval must be submitted via a new Appointment of Dissertation Committee (<https://www.unomaha.edu/graduate-studies/current-students/graduate-forms-and-resources.php>) form to the Office of Graduate Studies for approval by the dean for Graduate Studies.

If the chair of a dissertation committee leaves the employ of the university, or retires, the Office of Graduate Studies must be notified immediately and a change in the committee must be made as follows:

- If the student has already achieved candidacy, the former chair who has left the employ of the university may be permitted to continue as co-chair of the dissertation committee, with the agreement of the departmental/school graduate program committee and the dean for Graduate Studies. A second co-chair must be appointed who is a resident graduate faculty member.
- If the student has not yet achieved candidacy, a new chair of the dissertation committee who is a resident graduate faculty member must be appointed immediately, with the agreement of the departmental/school graduate program committee and the dean for Graduate Studies.
- If a member of the dissertation committee, other than the chair, leaves the employ of the university, or retires, a replacement should normally be appointed who is a resident graduate faculty member. In certain circumstances where a special and needed continuing expertise is involved and the staff member is willing to continue serving, they may continue as a member of the dissertation committee, with the approval of the departmental/school graduate program committee and the dean for Graduate Studies.

## Leave of Absence

Doctoral students who are forced to interrupt their studies may request a leave of absence from the University for up to one year. In consultation with their department/school and their doctoral program chair, students should define the program modifications the leave of absence requires. Requests should indicate a reason for leaving and the expected date of return to the University. If approval is granted, the time limits on the granting of the doctoral degree will be frozen for the time specified (up to one year). Students should file a request with their chair who will forward it to the dean for Graduate Studies. Approval of the dean for Graduate Studies is required prior to taking the leave of absence.

## Time Limit for Completion of Degree

A minimum of three full years of graduate study is normally required to complete a program for the degrees Doctor of Philosophy and Doctor of Education. The time limit on granting the PhD or EdD degree is 10 years from the beginning of the doctoral coursework. Individual programs may have other deadlines for completion. Neither the courses taken nor the time spent in study determines the granting of the degree.

## Final Examination

The final examination is oral. It is given by the dissertation committee after the candidate's studies have been completed and the dissertation has been accepted for examination. The committee also determines its character and length. The examination may be devoted to the special field of the dissertation or to the candidate's general knowledge, or it may be designed to test judgment and critical powers.

The final oral examination will not be scheduled unless the chair of the dissertation committee and at least two other members of the committee are available for the examination. Exceptions may be made only by permission of the dean for Graduate Studies. In any event, the chair/co-chair and readers of the dissertation must have seen and approved the completed dissertation before the final oral examination will be scheduled. The first and second readers are two dissertation committee members, excluding the committee chair/co-chair. Upon approval by the chair/co-chair and readers, the Application for Final Examination (<https://www.unomaha.edu/graduate-studies/current-students/graduate-forms-and-resources.php>) must be submitted to the Office of Graduate Studies prior to your examination date.

The final oral examination over the dissertation may be waived only with the unanimous consent of the dissertation committee and only in extremely unusual circumstances. The committee reports the results of the final oral examination or the reason for its waiver to the Office of Graduate Studies by using the Report on Completion of Degree (<https://www.unomaha.edu/graduate-studies/current-students/graduate-forms-and-resources.php>).

In the event that members of an oral examining committee are not unanimous regarding the passing of a candidate, the student is to be approved for the degree only if one examiner dissents. However, in each case, the dissenting member of the committee will be expected to file a letter of explanation to the Office of Graduate Studies.

## Exit Requirement

The doctoral dissertation should make a creative contribution to knowledge in your field while also demonstrating mastery of relevant resources and methods. It is expected the dissertation will have a single topic, however broadly defined, and all parts of the dissertation will be interrelated. This, however, does not prevent sections of the dissertation from being discrete units.

The dissertation should also demonstrate your potential to make future, original contributions to knowledge, understanding, or methodologies in your discipline. For example, the originality of a dissertation may involve the discovery of significant new information or principles of organization, the achievement of a new synthesis, the development of new methods or theories, or the application of established methods to new materials or procedures.

Given the diverse nature of the fields in which dissertations are written and the wide variety of topics that are explored, it is impossible to designate an ideal length for the dissertation. A long dissertation is not necessarily better than a shorter one since the value and scale of the dissertation topic ultimately depends on the quality of its thought and the clarity of its exposition. Your dissertation committee will determine the appropriateness of these and other issues.

Grades for a doctoral dissertation are recorded on the permanent record after completion and approval by the department/school and the Office of Graduate Studies. Grades will be either "S" for Satisfactory or "U" for Unsatisfactory.

The dissertation is not considered to be a publication; thus it may be published, in whole or in part, and either quoted or paraphrased by giving appropriate credit to the relevant department/school, the Graduate College, and the University of Nebraska at Omaha.



**NOTE:** The doctoral dissertation committee guides your progress toward the completion of the dissertation, but it is your responsibility to follow instructions on the preparation of the document and to observe filing deadlines.

## Dissertation Submission Procedures

The doctoral dissertation committee guides the student in the conduct and development of the dissertation and approves the final product. Typically, final recommendations from the dissertation committee, or dissertation committee chair, are provided to the student at the time of the final oral examination, although details vary among department/schools and individual faculty. Final approval of the dissertation is contingent upon approval by the dissertation committee and the Office of Graduate Studies.

### Procedures:

At least three weeks prior to the last published date for holding oral exams, submit the Application for Final Examination (<https://www.unomaha.edu/office-of-graduate-studies/forms-and-resources/forms-documents.php>) form to the Office of Graduate Studies. If the final examination is waived, the dissertation committee must attach a statement of justification to the Application for Final Oral Examination or Waiver of Examination form; all members of the dissertation committee must indicate their approval of the waiver.

When the final dissertation has been approved by the dissertation committee, the student must submit the following to the Office of Graduate Studies for the final administrative steps in the approval process: Report on Completion of Degree (<https://www.unomaha.edu/graduate-studies/current-students/graduate-forms-and-resources.php>) form signed by the dissertation committee, upload your document to ProQuest (<https://www.unomaha.edu/office-of-graduate-studies/current-students/thesis-dissertation-support.php>), and complete the Survey of Earned Doctorates (<https://sed-ncses.org/login.aspx>) if you are a PhD student.

**NOTE:** If the dissertation is to be held pending patent issuance, etc., the student must specify this at the time the PDF file is submitted to ProQuest (UMI).

An electronic version of the dissertation (collectively referred to as ETDs) is required. An ETD is a document expressed in a format simultaneously suitable for machine archives and worldwide retrieval. Preparation of the ETD may be done using most word processor or document preparation systems that incorporate relevant multimedia objects.

As part of the ETD submission, students' abstracts are published in UMI's Dissertations Abstracts publications. Upon submission, the student authorizes ProQuest to produce copies of their work on demand for a fee. However, the student may request that UMI not distribute (or embargo) their ETD until further notice (up to two years). Some reasons for this include patent pending, the student's employer requires a review of the work, or a publishing agreement requires initial publication.

Please note: There may be a fee to submit the ETD through ProQuest; the amounts are noted on their website.

After successfully uploading the dissertation, the Office of Graduate Studies will be notified electronically by ProQuest of the submission and asked to provide final approval. Final approval of the dissertation will not be granted if the Report on Completion of Degree form is not on file with the Office of Graduate Studies.

Formatting and Submission Instructions (<https://www.unomaha.edu/office-of-graduate-studies/current-students/thesis-dissertation-support.php>)

## Grades & Quality of Work Standards

- **Grades (p. 980)**
- **Quality of Work Standards (p. 981)**

## Grades

### Learn more about the following here (p. 37).

- Grading Scale
- How to View Official Grades
- Official Academic Transcripts

## Incomplete Grades

The grade "Incomplete" ("I") is to be used by an instructor at the end of a term to designate incomplete work in a course. It should only be used when a student, due to extenuating circumstances (such as illness, military service, hardship or death in the immediate family), is unable to complete the requirements of the course in the term in which the student is registered for credit. An Incomplete should only be given if the student has already substantially completed the major requirements of the course. Each instructor must judge each situation as to whether an "I" is appropriate.

To receive an Incomplete, students must contact their professor prior to the end of the semester, request a grade of incomplete, and make arrangements to complete the work. The rules which govern the issuance of the incomplete are as follows:

1. The grade "I" is used by an instructor at the end of a semester or summer session to designate incomplete work in a course. It is given when a student, due to circumstances such as illness, military service, hardship or death in the immediate family, is unable to complete the requirements of the course in the term in which the student is registered for credit. Incomplete grades will only be given if the student has already substantially completed the major requirements of the course.
2. Each instructor will judge each situation. The instructor will also indicate by a departmental record, with a copy to the student, how the incomplete is to be removed, and if the instructor is at the university at the time of removal, supervise the makeup work and report the permanent grade.
3. In the event the instructor is not available at the time of the student's application for removal of an incomplete, the department chairperson will supervise the removal of the incomplete and turn in the permanent grade for the student.

## Removal

The instructor does have the option of determining the requirements for completing the course and requisite date for removal of an incomplete. These requirements are in writing with the department to ensure there is no miscommunication between the instructor and student.

## Repeating a Graduate Course

A student, upon the consent of his or her advisor, may repeat a course in which he/she has previously received a grade of "C+" (2.33 on a 4.0 scale) or below. Both grades will appear on the transcript, but only the second grade will be counted in determining the grade point average.



## Quality of Work Standards

A "B" (3.0 on a 4.0 scale) average must be maintained in all graduate work taken as part of the degree or certificate program.

## Automatic Dismissal

Graduate students are expected to do work of high caliber. Failure to do so will result in dismissal. In particular, the following will result in automatic dismissal from the degree or certificate program:

- Receiving a grade of "C-" (1.67 on a 4.0 scale) or below in any course taken in the student's major field of study or in any course included in the plan of study/program of study.
- Departments/schools may have additional and more stringent criteria for evaluating a student's performance and progress and may demand a higher level of performance than that demanded by the Graduate College. A department/school or program unit may, under some circumstances, recommend dismissal of a student from a graduate program even though quality of work standards have been maintained. Grounds for dismissal could include, but are not limited to:
  - Failure to be accepted by an appropriate thesis or dissertation advisor within stipulated time limitations;
  - Failure to make timely progress toward the degree or certificate; and
  - Failure to perform in coursework, qualifying examination or research at an acceptable level in the respective department/school or program unit.

## Probation or Dismissal

A department/school will recommend that the dean for Graduate Studies either dismiss a student or place him or her on probation (with conditions for reinstatement as a student in good standing), in the following cases:

- A grade of "C+" (2.33 on a 4.0 scale) or below in any course in the first 12 hours of graduate study for provisionally admitted students;
- Receiving at least nine (9) hours of graduate credit with the grade of "C+" (2.33 on a 4.0 scale) or below in any courses taken in the student's major field of study or in any courses included in the plan of study for master's degrees, specialist's degrees or graduate certificates, regardless of the average;
- Receiving at least six (6) hours of graduate credit with the grade of "C+" (2.33 on a 4.0 scale) or below in any courses taken in the student's major field of study or in any courses included in the program of study for doctoral degrees, regardless of the average;
- Failure to maintain a "B" (3.00 on a 4.0 scale) average in all graduate work taken as part of the degree or certificate program.

## Unclassified and Non-Degree Students

- For students with unclassified or non-degree admission, the above quality of work standards apply to coursework taken, as if all such courses were included in a graduate plan of study.
- A student will be automatically dismissed from all graduate standing or placed on probation should any of the above conditions occur.

## Additional Requirements

Some departments/schools apply additional criteria for satisfactory performance beyond the requirements of the Graduate College.

## Monitoring

- The graduate program committees or the supervisory committees in their respective departments/schools shall be responsible for

monitoring quality of work in degree, certificate and unclassified programs, and for recommending action.

- Graduate Studies will send a report to each department/school at the start of each semester with the names of master's, specialist, and certificate students who have received at least nine (9) hours of graduate credit with a grade of "C+" (2.33 on a 4.0 scale) or below as of the end of the previous semester.
- Graduate Studies will send a report to each department/school at the start of each semester with the names of doctoral students who have received at least six (6) hours of graduate credit with a grade of "C+" (2.33 on a 4.0 scale) or below as of the end of the previous semester.
- Graduate Studies shall be responsible for monitoring quality of work in non-degree programs.
- The dean for Graduate Studies will make the final decision and notify graduate students of their status.

## Student Responsibilities

- Students should be aware of the Quality of Work Standards of the Graduate College, as well as any additional criteria of satisfactory performance in their respective graduate programs.
- It is the student's responsibility to know when his or her previous coursework has failed to meet those standards.
- Students who are attending classes are still subject to dismissal if their department/school recommends dismissal based on its review of their previous performance.

## Automatic Dismissal for a Grade of "U" (Unsatisfactory) or "Fail"

A grade of "U" or "Fail" in any graduate course taken by a graduate student shall be treated the same as a grade of "C-" or below and shall result in automatic dismissal from the graduate program.

## The Plan of Study and Grades Which Result in Automatic Dismissal

Grades which result in automatic dismissal from a program (e.g., grade of "C-" or below, "U", "Fail") may not be applied towards a graduate plan of study.

## Students Dismissed from a Graduate Program Who then Re-apply as Non-Degree Students

If a student is currently registered, he/she will be disenrolled from their coursework. A hold will be placed preventing enrollment in future semesters, unless they request and receive permission in accordance with departmental/school graduate program policy to enroll as a non-degree student in that program.

## Policy on Petitioning for Reinstatement into a Graduate Program

The process for petitioning and evaluating petitions for reinstatement into a graduate program is the responsibility of each department's/school's graduate program committee. For a current copy of procedures, please contact your department/school graduate program committee chair.

# Academic Appeals

## Appeal of Grades in Graduate-Level Courses

An appeal of grades in graduate-level courses shall be made through the graduate student grade appeal procedures for the campus through which the grade was awarded. Students who believe their evaluation in a course has been prejudiced or capricious must first attempt to resolve the matter with the course instructor and then the department through which the course was offered.

The initiation of the appeal in writing by the student must be filed within six weeks following receipt of the grade from the Office of the University Registrar.

In cases where a grade lower than a "C" will result in dismissal from the graduate student's program, the dean for Graduate Studies will notify the graduate program committee chair and student that the student will be automatically dismissed from their graduate program. The student will have a two-week grace period from the date of the dismissal notification to the date of the request to the Registrar for dis-enrollment in all graduate coursework. This two-week period allows the student an opportunity to present his/her case informally to the course instructor and, if necessary, to the chair of the graduate program committee before being terminated from the program and disenrolled from courses. A student who has been dismissed from a graduate program and disenrolled from coursework is prohibited from taking graduate courses.

If the matter is not resolved, the student may file an appeal in writing to the campus dean for Graduate Studies, who shall inform the student of the grade appeal procedures approved by the graduate faculty or by their duly elected representative graduate council for that campus, and shall forward the appeal to the student-faculty committee or council that has been designated to hear graduate-level course grade appeals on that campus. Since awarding grades in courses occurs at the individual campus level, the decision of the campus committee or council designated to hear the case on behalf of the campus graduate faculty shall be final and is not subject to further appeal (Graduate College Policy Handbook 2011-2012).

## Grade Appeal Policy for UNO Graduate College Courses

### I. Overview

1. **Purpose.** A grade appeal policy seeks to articulate and protect both the rights of students to fair and impartial evaluation of their academic performance and the responsibilities of faculty members as those who determine student grades. A course grade assigned in a manner consistent with university policy can be changed only by the instructor. University administrators can direct a grade to be changed only when it is determined through the procedure established by this policy that the faculty member assigned the course grade in an arbitrary or capricious manner. An "arbitrary and capricious action" is an action taken without regard for the facts or circumstances of the appeal, without some basis which would lead a reasonable, informed, and honest person to the same conclusion. Allegations that sexual harassment was the reason a final course grade was arbitrarily or capriciously assigned by the instructor must be addressed according to procedures set forth in the UNO Prohibited Discrimination policy (<https://www.unomaha.edu/office-of-equity-access-and-diversity/policies-plans-forms/ead-statement.php>) rather than from the following procedures.
2. **Faculty Responsibility.** It is a fundamental principle of higher education that faculty members are expected to:
  - Exercise their professional judgment in evaluating student performance.

- Specify in each of their courses at the beginning of the academic term:
    - Course requirements and expectations for academic performance; and
    - Procedures for evaluating performance (method(s) of evaluation and grading scales).
  - Communicate clearly to all students in the course any subsequent additions to or changes in these requirements, standards, and procedures.
  - Apply the specified grading criteria equitably to the academic performance of all students in the course regardless of their age, color, creed, disability, gender, national origin, race, religion, sexual orientation, or other personal characteristics.
  - Departing faculty must document their last semester's grades and leave a copy with their Graduate Program Chair. Documentation should include course syllabi and any other information distributed to their students concerning grading policies.
3. **Student Responsibility.** Students have the responsibility to know and adhere to the University policies and standards pertaining to them. As students willingly accept the benefits of membership in the University of Nebraska at Omaha (UNO) academic community, they are obligated to uphold and observe the principles and standards articulated in the UNO student code of conduct.

### II. Course Grades that Are Eligible for Appeal

1. **A grade appeal policy applies to final course grades.** Course grades which result from alleged violations of the Code of Student Academic Integrity may also be appealed under this policy.
2. A course grade is deemed to have been assigned in an arbitrary or capricious manner if, by a preponderance of the evidence, a student establishes that:
3. The course grade was based upon the student's age, color, creed, disability, gender, national origin, race, religion, sexual orientation, other personal characteristic, or for some other arbitrary or personal reason unrelated to the instructor's exercise of his or her professional academic judgment in the evaluation of the academic performance of the student; or
4. The course grade was assigned in a manner not consistent with the standards and procedures for evaluation established by the instructor, usually at the beginning of the course in the course outline, commonly called the course syllabus (a course outline is primarily the information provided by the instructor at the beginning of the course, and not necessarily the master syllabus generated by the department which may be applied to multiple offerings of a course in time or place), but supplemented on occasion during the semester in other written or oral communications directed to the class as a whole; or
5. The course grade assigned by the instructor was the result of a clear and material mistake in calculating or recording grades. Individual **elements** (e.g., assignments, tests, activities, projects) which contribute to a course grade are generally NOT subject to appeal or subsequent review during a grade appeals procedure. However, individual elements may be appealed under these procedures providing the following conditions are met:
  - The student presents compelling evidence that one or more individual **elements** were graded on arbitrary or capricious grounds (defined above);
  - Grounds can be established for determining a professionally sound grade for the appealed element(s); and
  - The ensuing grade for each appealed element would have resulted in a different course grade than that assigned by the faculty member.

### III. Grade Appeal Procedures

Each department or program will establish its own grade appeal procedures. These procedures must:

1. Articulate and protect both the rights of students for fair and impartial evaluation of their academic performance and the responsibilities of faculty members as those who determine student grades.
2. Include timelines.
3. Be made readily available to all students.
4. Be documented in the Office of Graduate Studies.

## Appeal of General Academic Matters Related to Student Programs

1. Graduate students holding admission with unclassified status in the Graduate College, admission with a master's objective or admission with a doctoral objective (but prior to the appointment of a doctoral dissertation committee) should appeal as follows:
  - a. The student should first submit the appeal to the student's faculty advisor.
  - b. If denied, the student may submit the appeal to the department/area graduate program committee that is administratively responsible for the student's graduate program.
  - c. If denied, student may submit the appeal to the graduate council for the campus administratively responsible for the student's graduate program. Normally, this is the final appeals body (for exceptions, see the last part of this section).
2. Graduate students holding admission with a doctoral objective in the Graduate College and for whom a doctoral dissertation committee has been appointed should appeal as follows:
  - a. The student should first submit the to the student's faculty advisor.
  - b. If denied, the student may submit the appeal to the student's supervisory committee.
  - c. If denied, the student may submit the appeal to the department/school graduate program committee that is administratively responsible for the student's graduate program.
  - d. If denied, the student may submit an appeal to the graduate council for the campus administratively responsible for the student's graduate program. Normally, this is the final appeals body (for exceptions, see the last part of this section).
3. When a student's graduate program consists of registrations essentially or entirely on one campus, the graduate council of the campus administratively responsible for the program will constitute the appeal board. When a student's graduate program includes substantial registrations on a campus other than the one administratively responsible for the program, three members of the graduate council for the other campus will be designated by the dean for Graduate Studies on that campus to augment the graduate council on the campus administratively responsible for the program. In this case, the augmented council will constitute the appeal board. The decision concerning augmentation of a campus graduate council for a specific appeal involving registrations on a campus other than the one administratively responsible for the student's program will be made by the deans for Graduate Studies on the campuses involved.
4. In all cases, appeals should be made in writing to the appropriate advisor, committee or council. In those cases where the appeal concerns graduate-level qualifying exams, comprehensive exams or final oral exams, the following deadlines must be observed.
  - a. It is the responsibility of the student to make reasonable efforts to ascertain the results of the examination within 30 days after its completion.
  - b. The student must file the initial appeal, in writing, within 30 days following the student's receipt of the evaluation results.

- c. In those cases involving an appeal of termination of program, the student must file an initiation of the appeal, in writing, within 30 days following the student's receipt of the official written notification by the Office of Graduate Studies.

## Graduate Student Academic Appeal Policy

### Introduction

This document outlines the UNO graduate council policies and procedures for student academic appeals in situations such as comprehensive exams, plagiarism, and reinstatements. For grade appeals, see the Grade Appeal Policy at the Graduate College Level for Graduate-Level Courses.

This document is divided into three sections:

1. Documentation from Student and Faculty Representative (or Department);
2. A description of the initial review of the appeal case by the graduate student academic appeals committee; and
3. Details of the operating guidelines for the UNO graduate council to follow in conducting a full appeal.

### 1.0 Documentation from Student and from Faculty Representative

#### 1.1 Student Documentation

The student shall provide documentation that proves the student's appeal.

In addition to the documentation deemed relevant by the student to prove the student's appeal and provided by the student, the student shall complete a single-page cover sheet for the appeal. That cover sheet shall be designed by the dean for Graduate Studies and provided to the student. On that cover sheet, in less than 2,000 characters (e.g., including spaces), the student shall specifically identify in three separate paragraphs:

1. the procedural error(s) being appealed;
2. the substantive error(s) being appealed; and
3. the remedy requested.

The student's appeal is not submitted until the dean for Graduate Studies determines that the student's cover sheet has been completed as required.

#### 1.2 Faculty Representative Documentation

The dean for Graduate Studies shall deliver the student's section 1.1 cover sheet, along with other notice of the student's appeal, to the decision maker whose decision is being appealed. The decision maker shall promptly notify the dean for Graduate Studies of the decision maker's appointment of a faculty representative.

Ordinarily the student's appeal is necessarily limited to an appeal of the decision of a single decision maker (e.g., graduate program committee). However, if the student is appealing decisions of more than one decision maker, then there might be more than one faculty representative. The faculty representative of a committee may be, but is not necessarily, a member of that committee. If no such notice of appointment is delivered to the dean for Graduate Studies, then the faculty representative of an individual decision maker shall be that individual, and for a committee the current chair of that committee.

The faculty representative shall provide documentation relevant to the student's appeal as defined in the student's section 1.1 cover sheet in a timely manner. After the student has submitted an appeal, and after the faculty representative has replied by providing relevant documentation, the dean for Graduate Studies shall review that documentation for completeness. Prior to the dean for Graduate Studies delivering that documentation to the graduate student academic appeals committee, the dean for Graduate Studies, in the interest of completeness, may request the faculty representative(s) to provide specific additional documentation that

the dean for Graduate Studies reasonably believes is readily available to the decision maker whose decision is being appealed.

## 2.0 Graduate Student Academic Appeals Committee

### 2.1 Function of the Committee

The dean for Graduate Studies shall appoint a committee which will review student academic appeals that are filed in Graduate Studies. The task of the graduate student academic appeals committee will be to determine whether the appeal merits a hearing by the graduate council.

### 2.2 Composition of the Committee

The dean for Graduate Studies shall appoint two faculty members from each of the two standing committees of the graduate council, and one of the student representatives on the graduate council, to serve on the committee. The duration of appointment to the committee shall be for one year. (In cases where a student from the home department of one of the members of the committee has initiated an appeal, the dean shall appoint a replacement for that committee member from the graduate council to hear that specific appeal. All other cases of potential conflict of interest shall be treated in a similar fashion).

### 2.3 Procedures for the Committee

The committee is charged with the responsibility of determining the merits of the student academic appeal, based on the letter of appeal and any other documentation requested and received by either the dean for Graduate Studies or the graduate student academic appeals committee. The committee shall vote on whether the appeal merits a hearing by the graduate council. Affirmative vote of the majority of the members is required to bring the appeal before the graduate council for a full hearing. The decision of the committee will be communicated to the Office of Graduate Studies for appropriate action.

## 3.0 UNO Graduate Council and Graduate Student Academic Appeals

### 3.1 Purpose and Limitation of Scope

The graduate council will hear only those appeals forwarded by the graduate student academic appeals committee. The purpose of the hearing shall be to decide the merit of a student's request for redress of the academic issue being appealed. The appealing student bears the burden of proof to prove: (1) by clear and convincing evidence that the faculty member's decision being appealed was prejudicial or capricious; and 2) by the preponderance of the evidence that the graduate program committee's decision being appealed was prejudicial or capricious.

### 3.2 Composition of the Council for Hearing Student Appeals

The full membership of the graduate council (quorum required) shall hear academic appeals of graduate students.

### 3.3 Possible Conflicts of Interest by Graduate Council Members

Graduate council members who feel a conflict of interest might result from their participation in an academic appeal hearing shall exercise the necessary professional steps to avoid influencing the vote of the council.

### 3.4 Timeliness of Council Decision

The graduate council shall hear appeals forwarded by the graduate student academic appeals committee at its next scheduled meeting unless a delay is approved.

### 3.5 Student and Faculty Freedom to Present Arguments

The student and the faculty representative shall have freedom to present their viewpoints, limited only to the requirement that facts and opinions presented shall pertain to the academic issue being appealed.

### 3.6 Guidelines for Hearing Procedures

The following shall be made known to persons present at the hearing:

The time: \_\_\_\_\_ The date: \_\_\_\_\_ The place: \_\_\_\_\_.

This hearing will be conducted in compliance with the UNO graduate student academic appeal policy. The student, \_\_\_\_\_, has filed an appeal in conformity with the policies of the graduate council pertaining to the findings of a graduate program committee. The graduate program committee or other designated committee consisted of Professor \_\_\_\_\_, Chair; and Professors \_\_\_\_\_ and \_\_\_\_\_ as members. That committee heard the appeal on \_\_\_\_\_ and denied the appeal. The student disagreed with the decision of the departmental appeals committee and continued the appeal process by submitting a letter detailing supporting reasons to the dean for later consideration by the graduate student academic appeals committee. That committee reviewed the student's request on \_\_\_\_\_ and, under conformity with its guidelines, has forwarded the student's appeal to the graduate council for action. The graduate council members present at this hearing have had an opportunity to review the documents provided by the person(s) involved. The agenda for the UNO graduate student academic appeal is:

Student's presentation: 10 minutes

Faculty Representative's presentation: 10 minutes

Council members' questions to Student and Faculty Representative: up to 20 minutes

Student's concluding remarks: 5 minutes

Faculty member's concluding remarks: 5 minutes

The participants of this appeal shall leave following the above hearing and the council will deliberate the issue(s) involved. The council's decision will be determined by secret ballot of those members who were present and voted. As soon as the votes are counted by the dean for Graduate Studies, the ballots shall be destroyed and the final decision announced to the council by the dean. In no case shall the number of votes cast on either side of the issue be disclosed.

### 3.7 Administration of the Council's Decision:

The dean for Graduate Studies shall provide the parties of an appeal a written statement of the graduate council's decision within three working days.

## Guidelines for the Appeals to the Executive Graduate Council

1. There is no absolute right of appeal to the executive graduate council. The executive graduate council will accept appeals only in those cases where, in the exercise of its sole discretion, it shall first find that one or more of the following grounds for accepting the appeal exist:
  - a. The campus graduate council has violated some element of fair procedure (example: has failed to allow the parties concerned to present their cases fully to their campus graduate council).
  - b. That the campus graduate council has failed to examine or give adequate weight to important evidence relevant to one party's position.
  - c. The campus graduate council has given undue weight to evidence not pertinent to the case.
  - d. That some gross miscarriage of justice would be perpetrated if the decision of the campus graduate council is allowed to stand. A decision by the executive graduate council not to accept jurisdiction of an appeal shall be final and is not subject to further appeal.
2. A student appeals to the executive graduate council must be made in writing and must specifically outline the grounds for appeal. Appeals must be made within 20 working days of the day on which the decision of the campus council is received (working days shall not include those days the university is not in session).



3. The executive graduate council must make a decision to hear the appeal or not to hear the appeal within 30 working days after receipt of the appeal. Acceptance or denial of jurisdiction over the appeal will be made in writing.
4. The decision of the executive graduate council on the merits of the case will be made and transmitted to the concerned parties within 40 working days after the decision to hear the appeal.
5. No person who was a member of the department or campus graduate council involved in the case will be eligible to participate in the decisions of the executive graduate council, either to decide whether the case should be heard or to decide the merits of the case. The dean for Graduate Studies may replace members of the executive graduate council not eligible for participation in the decision to hear the appeal or in the appeal itself.

- Report on Completion of Degree is to be submitted to the Office of Graduate Studies in person or by email to [graduate@unomaha.edu](mailto:graduate@unomaha.edu).
- The thesis, EdS field project, or dissertation is to be submitted electronically through ProQuest. Visit the Thesis & Dissertation Support (<https://www.unomaha.edu/office-of-graduate-studies/current-students/thesis-dissertation-support.php>) website for additional information on account set-up and document submission.

For specific deadlines related to filing an application for degree, submitting comprehensive examination results, Incomplete (I) and In Progress (IP) grades from previous terms, and final copies of theses, EdS field projects, and dissertations, view the Graduation Checklist (<https://www.unomaha.edu/office-of-graduate-studies/current-students/graduation-checklist.php>).

In order to remain eligible for graduation, you must maintain enrollment for all currently enrolled courses that are part of your plan of study. A grade for any current enrollment(s) must be received by the Registrar's Office no later than the close of business on the 15th working day following the date of commencement (or the final day of the semester in the case of August graduation). Diplomas will be mailed as soon as possible after the 15 working days have passed.

Your graduation file must be **in complete order** with the exception of grades for current enrollments. Final responsibility rests with you, the graduate student, to check with your advisor and the Office of Graduate Studies to be sure all requirements are met.

**Note: If requirements are not complete by the published deadlines, students will be cancelled from graduation and will NOT be allowed to participate in the commencement ceremony.**

Please be sure all holds are cleared and that the address listed on the degree application is correct, as this is the address to which diplomas are mailed. Diplomas or official transcripts will not be released for students who have outstanding debts or fees owed to the University. The student is responsible for contacting the Office of Cashiering and Student Accounts to make arrangements to clear their account.

## Financing your Education

- **Office of Financial Support and Scholarships (p. 43)**
- **Federal Financial Aid Policies (p. 43)**
- **Graduate Assistantships (p. 985)**

## Graduate Assistantships

### Graduate Assistantships

### Academic Standards

A graduate assistantship is intended to award students who have demonstrated high academic performance and potential either at the graduate or undergraduate level. As a graduate assistant you will be considered a UNO employee with a tuition waiver, monthly salary, and subsidized health insurance.

- Graduate assistants must be students in good standing in a degree or certificate program in the UNO Graduate College.

## Graduation

### Graduation Process

As students prepare to graduate from UNO, there are several things they should know. Please review the following information, and be aware of all relevant deadlines for the semester that you intend to graduate.

UNO students have the opportunity to graduate in May, August, or December. Students graduating in May are eligible to participate in the May commencement ceremony, while students graduating in August and December are eligible to participate in the December commencement ceremony. Participation in a commencement ceremony is not required in order to graduate from any degree program or to receive a diploma.

- Students must complete an Application for Degree during the semester in which they plan to graduate.
  - Deadlines to apply for graduation are included in the academic calendar (<https://www.unomaha.edu/registrar/academic-calendar.php>).
  - Log into MavLINK and fill out the application for degree on or before the deadline. Information on how to apply can be found on the Registrar's website (<http://www.unomaha.edu/registrar/students/graduation-and-diplomas/graduation-general-information.php>).
  - There is an application for degree fee, payable at the time the application is submitted.
  - Please contact the Registrar's Office at 402.554.2314 with any questions.

**Note:** If you apply for graduation and will not complete all of the requirements for the degree, please notify the Office of Graduate Studies. You must REAPPLY to graduate in a future term; no additional fee is charged.

- After applying for the degree, students should visit The Maverick Store (<https://www.unobookstore.com/>) as soon as possible to purchase their academic regalia. Please contact The Maverick Store at 402.554.2336 with any questions.
- The following requirements must be on file with the Office of Graduate Studies 12 working days prior to commencement (or 12 working days prior to the final day of the summer semester in the case of August graduation):
  - Comprehensive examination results (contact individual departments/schools for procedures to take the exams).
  - All Incomplete (I) and In Progress (IP) grades from previous terms must be completed and the grades submitted to the Office of Graduate Studies.
  - Submit the Report on Completion of Degree (<https://www.unomaha.edu/office-of-graduate-studies/forms-and-resources/forms-documents.php>) along with the thesis, EdS field project, or dissertation.



- Dismissal from a graduate program for any reason shall result in simultaneous dismissal from any graduate assistantship position. The student will not be eligible for an assistantship thereafter until fully reinstated in a graduate degree or certificate program.

## Apply, Recruitment, Selection, and Renewal of Graduate Assistants

- Each graduate department/school or other unit, as appropriate, shall establish its own procedure for graduate assistantship recruitment and selection in accordance with university policy on affirmative action/equal opportunity. Graduate Assistantship positions are subject to a background check.
- Assistantships are not automatically renewable and are dependent upon assessment of work and classroom performance. The student is reminded that, whether or not outside work commitments are involved, graduate assistantships may not be renewed if either graduate class work or assistantship duties are not carried out in a satisfactory manner.

## Workload

- The workload for a graduate assistant should average 20 hours per week for the duration of the appointment and shall be construed to be the equivalent of .33 FTE.
- The department/school or unit in which the graduate assistant is employed should make arrangements with its assistants regarding vacation periods.
- The graduate faculty considers a student who is pursuing graduate study and holding a graduate assistantship to be carrying the equivalent of a full-time workload (see course load below) and, therefore, discourages the practice of holding additional jobs which may interfere with satisfactory performance of assigned duties.

## Course Load

- Graduate assistants must carry a minimum of six graduate credit hours in each of the fall and spring semesters this is in addition to any undergraduate deficiency courses. Graduate assistants working in the summer are not required to be concurrently enrolled.
- This requirement may only be waived if the student is in their last semester of the assistantship and needs less than the minimum six graduate credit hours to complete their requirements for graduation. For doctoral candidates, the six graduate credit hour minimum may also be waived with the approval of their advisor and the Office of Graduate Studies, if all required coursework has been completed except for dissertation credits. In either case students still must be registered for one course that is required to complete the degree requirements.
- Graduate assistants may not register for more than twelve semester hours without the approval of both their supervisor and the Office of Graduate Studies. The graduate assistantship will not pay for more than twelve semester hours in a semester.

## Duties

Duties assigned to graduate assistants should be directly related to and in support of graduate studies in their chosen field of study. In general, other duties which involve direct knowledge and application of knowledge related to the student's field of study would be acceptable. Graduate assistants should not be utilized solely for clerical duties.

It shall be the responsibility of each graduate program committee, in consultation with the cognizant department chairperson or program director, to draw up an agreement with each graduate assistant at the time of the appointment which shall specify the stipend, duration and method of payment, the assistant's duties, and the general conditions of employment. The agreement shall be reviewed by the graduate assistant before it is signed by him/her and the chairperson of the graduate program committee. The graduate program committee, upon the recommendation of the graduate assistant's faculty supervisor and/or the department

chairperson/school director or unit director, shall have the responsibility to review the assistant's performance and to terminate the appointment for failure to discharge satisfactorily the duties specified in the agreement.

## Lengths of Appointments

Assistantships may be awarded on an academic, calendar-year or semester-by-semester basis. Students working towards a master's degree may not hold an assistantship for more than four (4) semesters: Educational Specialist students are limited to four (4) semesters beyond their master's degree; doctoral students are limited to six (6) semesters beyond their master's degree. These appointments exclude summer sessions. An assistantship may be extended on an individual basis upon the recommendation of the Graduate Program Committee of the department and the approval of the Dean for Graduate Studies.

## Graduate Assistantship Frequently Asked Questions

### What is a graduate assistantship?

A graduate assistantship is based on academic and/or professional excellence. Recipients receive tuition remission, a monthly salary, and subsidized health insurance to work approximately 20 hours per week on assigned professional responsibilities. Graduate assistants are assigned responsibilities that provide supervised educational experiences at the graduate level.

### How do I apply for an assistantship?

Contact the department/school/office you are interested in for any available positions and their application procedures. Also, check with Maverick Student Employment (<https://www.unomaha.edu/maverick-student-employment/>), they may have a list of the current open assistantships. One must be admitted to a UNO graduate degree or certificate program to be a graduate assistant; non-degree & unclassified students are ineligible. Graduate Assistants must be in good standing in a UNO degree or certificate program to receive or continue with an assistantship.

### What do I receive monetary compensation for and when do I get paid?

Graduate Assistants typically work 20 hours per week. On the last working day of the month, your paycheck will be electronically deposited directly into your bank.

### How many graduate hours do I need to take during the fall and spring semesters?

Graduate Assistants are required to carry a minimum of six (6) graduate hours in the fall and spring semesters (**please note that undergraduate deficiencies do not count toward this minimum requirement**). You must be aware that nine (9) graduate hours is a full-time course load for graduate students.

The minimum of six (6) graduate credit hours may be waived if you are in your last semester & need less than six (6) graduate credit hours to complete the requirements for graduation. The Office of Graduate Studies will review your plan of study and contact you to complete the "Student Social Security Tax Exemption State-Last Semester."

The minimum of six (6) graduate credit hours also may be waived for doctoral candidates, with the approval of their adviser & the Graduate Dean, if all required courses except dissertation have been completed and the student will not be employed for more than 20 hours per week. The Office of Graduate Studies will review your plan of study and contact you to complete the "Student Social Security Tax Exemption Statement-Certification of Full-Time Graduate Status."

### **What is the maximum number of graduate hours I can take each semester?**

Your Assistantship will pay for a maximum of twelve (12) graduate credit hours a semester.

### **Can I register for an undergraduate course and have the tuition paid?**

Yes, if the undergraduate course is required to fulfill a deficiency that is listed on your original plan of study. This can be accessed in MavLINK (<https://mavlink.nebraska.edu/psp/mavlink/NBO/HRMS/?cmd=login>) AND you are also enrolled in a minimum of **six graduate credit hours**.

If the undergraduate course is not listed as a deficiency on your original plan of study, your assistantship will not pay for the tuition.

### **How many graduate hours does a graduate assistant have to take in the summer?**

None. \* You are allowed to take a maximum of twelve graduate hours.

### **Will my assistantship pay the tuition for graduate courses in the summer?**

Yes, if you were a graduate assistant for the preceding fall and spring semesters or are working as a graduate assistant during the summer.

If you were a graduate assistant for the spring semester only and will be one in the upcoming fall, you will be eligible for reimbursement for your summer graduate courses. Please consult with the Office of Graduate Studies.

### **How do I pay for classes ?**

Once the necessary paperwork has been submitted to the Office of Graduate Studies by your department/school/office, Cashiering/Student Accounts will be notified of your assistantship. Your account will then be credited for the classes which are covered by your assistantship. **Please be sure you pay the fees and any other charges not covered by your assistantship.**

### **Will my assistantship pay for graduate courses taken at the other three University of Nebraska campuses (UNL, UNK and UNMC)?**

Yes, if the courses are required in your plan of study, a tuition voucher will be completed by the Office of Graduate Studies at the time of verifying enrollment. You will need to complete the online Intercampus Registration Form ([https://csprdn.nebraska.edu/psc/csprdn/NBX/SA/s/WEBLIB\\_PTBR.ISCRIPT1.FieldFormula.IScript\\_StartPage/?ghcmd=saml](https://csprdn.nebraska.edu/psc/csprdn/NBX/SA/s/WEBLIB_PTBR.ISCRIPT1.FieldFormula.IScript_StartPage/?ghcmd=saml)).

### **What happens if I resign my assistantship?**

The Office of Graduate Studies will send you a prorated bill for tuition from the date you resigned your assistantship. You will be placed on stop enrollment until the bill is paid.

### **What happens if I don't start my assistantship at the beginning of the semester?**

Assistantships may be awarded on an academic-year basis, a calendar-year basis, or semester-by-semester basis. Normally these appointments start at the beginning of a semester. The department/school/office should contact the Office of Graduate Studies for prior approval if the assistantship is not starting at the beginning of a semester. If the late hiring is approved, the Office of Graduate Studies will send you a prorated bill for the graduate courses you are enrolled in; beginning with the date you started your assistantship.

### **May I hold another job (additional employment) in addition to my assistantship?**

The Graduate Faculty considers a student who is pursuing graduate study and holding a Graduate Assistantship to be carrying the equivalent of

a full-time workload and therefore, discourages the practice of holding additional jobs which may interfere with satisfactory performance of assigned duties. With the approval of your graduate program committee and the Office of Graduate Studies, an additional assignment may be accepted if professionally relevant and if your total FTE does not exceed .49.

### **What if I become sick and miss work or take a vacation?**

Graduate Assistants do not earn sick or vacation hours, please consult with your department/school/office concerning their policies.

### **Do graduate assistants work when offices are open, but the university is closed for classes?**

As a graduate assistant averages 20 hours per week, they are treated like faculty depending on their assignment you may be expected to work, and this must specifically be stated in their workload agreement (GA contract letter) and discussed well in advance. You should check with your GA supervisor regarding their policy.

### **How long may I hold a graduate assistantship?**

Assistantships may be awarded on an academic-year basis, a calendar-year basis, or semester by semester basis.

Students working towards a master's degree may not hold an assistantship for more than four (4) semesters: Educational Specialist students are limited to four (4) semesters beyond their master's degree; doctoral students are limited to six (6) semesters beyond their master's degree. These appointments exclude summer sessions. An assistantship may be extended on an individual basis upon the recommendation of the Graduate Program Committee of the department and the approval of the Dean for Graduate Studies.

## **Tuition and Fees**

- **Tuition and Fees (p. 47)**
- **Residency for Tuition Purposes (p. 48)**

## **Graduate Degree Programs, Certificates & Minors**

### **All Graduate Programs**

- Accounting, MACC (p. 989)
- Ancient Mediterranean Studies Minor (p. 1201)
- Anthropology Minor (p. 1202)
- Applied Behavior Analysis, MS (p. 1160)
- Art History Minor (p. 1202)
- Artificial Intelligence Certificate (p. 1048)
- Athletic Training, MA (p. 991)
- Biology, MS (p. 993)
- Biomechanics and Kinesiology, PhD (p. 1090)
- Biomechanics, MS (p. 994)
- Biomedical Informatics, MS (p. 996)
- Biomedical Informatics, PhD (p. 998)
- Black Studies Minor (p. 1202)
- Business Administration Minor (p. 1202)
- Business Administration, Executive MBA (p. 1012)
- Business Administration, MBA (p. 1002)
- Business Administration, MBA and Economics, MS (MBA/ECON) (p. 1018)

- Business Administration, MBA and Management Information Systems, MS (MBA/MIS) (p. 1013)
- Business Administration, MBA and Public Health, MPH (MBA/MPH) (p. 1023)
- Business Administration, MBA and UNMC Doctor of Dental Surgery (MBA/DDS) (p. 1030)
- Business Administration, MBA and UNMC Doctor of Physical Therapy (p. 1028)
- Business Administration, MBA and UNMC Master of Perfusion Science (p. 1033)
- Business Administration, MBA and UNMC Master of Physician Assistant Studies (p. 1034)
- Business Administration, MBA and UNMC Nursing (MBA/MSN) (p. 1031)
- Business Administration, MBA and UNMC PharmD (MBA/PharmD) (p. 1026)
- Business for Bioscientists Certificate (p. 994)
- Business in Health Administration Certificate (p. 1036)
- Communication Certificate (p. 1043)
- Communication Networks Certificate (p. 1049)
- Communication, MA (p. 1041)
- Computer Science Education Certificate (p. 1054)
- Computer Science Education, MS (p. 1053)
- Computer Science, MS (p. 1045)
- Computing & Information Science, PhD (p. 1107)
- Conducting Certificate (p. 1141)
- Counseling, MS (p. 1055)
- Creative Nonfiction Writing, Editing and Publishing Certificate (p. 1086)
- Criminology and Criminal Justice Minor (p. 1203)
- Criminology and Criminal Justice, MA (p. 1057)
- Criminology and Criminal Justice, MS (p. 1059)
- Criminology and Criminal Justice, PhD (p. 1060)
- Critical and Creative Thinking, MA (p. 1064)
- Cybersecurity Certificate (p. 1069)
- Cybersecurity, MS (p. 1066)
- Data Analytics Certificate (p. 1125)
- Data Management Certificate (p. 1126)
- Data Science, MS (p. 1070)
- Dyslexia Specialist Certificate (p. 1192)
- Economic Education Certificate (p. 1075)
- Economics Minor (p. 1203)
- Economics, MS (p. 1072)
- Educational Administration & Supervision, EdS (p. 1078)
- Educational Administration, EdD (p. 1079)
- Educational Leadership, MS (p. 1076)
- Elementary Education, MS (p. 1079)
- English Dual Enrollment Certificate (p. 1088)
- English Minor (p. 1203)
- English, MA (p. 1084)
- Executive Business Analytics Certificate (p. 1038)
- Executive Business Certificate (p. 1037)
- Executive Business Leadership Certificate (p. 1038)
- French Certificate (p. 1197)
- French Minor (p. 1203)
- Geographic Education Certificate (p. 1097)
- Geographic Information Science Certificate (p. 1096)
- Geography Minor (p. 1203)
- Geography, MS (p. 1094)
- German Minor (p. 1203)
- Gerontology Certificate (p. 1100)
- Gerontology Minor (p. 1203)
- Gerontology, MA (p. 1098)
- Gerontology, PhD (p. 1098)
- Global Information Operations Certificate (p. 1148)
- Government Certificate (p. 1149)
- Health and Kinesiology, MS (p. 1100)
- Healthcare Logistics and Supply Chain Management, MS (p. 1102)
- History and Government, MA (p. 1105)
- History Certificate (p. 1104)
- History Minor (p. 1204)
- History, MA (p. 1102)
- Homeland Security Focused Business Analytics Certificate (p. 1076)
- Human Centered Computing, MS (p. 1106)
- Human Resources and Training Certificate (p. 1039)
- Industrial/Organizational Psychology, MS (p. 1157)
- Information Assurance Certificate (p. 1127)
- Intelligence and National Security Certificate (p. 1151)
- Internal Audit, Fraud and Control Certificate (p. 991)
- Kodaly Certificate (p. 1142)
- Literacy, MS (p. 1112)
- Literature and Culture Certificate (p. 1087)
- Logistics & Supply Chain Management Certificate (p. 1040)
- Machine Learning Certificate (p. 1050)
- Management Information Systems Minor (p. 1204)
- Management Information Systems, MS (p. 1114)
- Managing Juvenile and Adult Populations Certificate (p. 1064)
- Mathematics Minor (p. 1204)
- Mathematics, MA (p. 1131)
- Mathematics, MAT (p. 1134)
- Mathematics, MS (p. 1135)
- Medical Humanities Minor (p. 1204)
- Medieval/Renaissance Studies Minor (p. 1204)
- Music, MM (p. 1140)
- Native American Studies Minor (p. 1205)
- Nonprofit Management Certificate (p. 1173)
- Political Science Minor (p. 1205)
- Political Science, MS (p. 1143)
- Project Management Certificate (p. 1129)
- Psychology, MA (p. 1152)
- Psychology, PhD (p. 1155)
- Public Administration, MPA (p. 1162)
- Public Administration, MPA and Criminology and Criminal Justice, MS (p. 1166)
- Public Administration, MPA and Gerontology, MA (p. 1167)
- Public Administration, MPA and Management Information Systems, MS (MPA/MIS) (p. 1123)
- Public Administration, MPA and Social Work, MSW (MPA/MSW) (p. 1170)
- Public Administration, PhD (p. 1164)
- Public Management Certificate (p. 1172)
- Religious Studies Minor (p. 1205)
- School Psychology, EdS (p. 1158)
- School Psychology, MS (p. 1159)
- Secondary Education, MS (p. 1174)

- Secondary Mathematics Specialist Certificate (p. 1139)
- Social Work, MSW (p. 1179)
- Social Work, MSW and Criminology and Criminal Justice, MS (MSW/CRCJ) (p. 1062)
- Social Work, MSW and Public Health, MPH (MSW/MPH) (p. 1185)
- Sociology Certificate (p. 1189)
- Sociology Minor (p. 1205)
- Sociology, MA (p. 1187)
- Software Engineering Certificate (p. 1051)
- Spanish Certificate (p. 1198)
- Spanish Minor (p. 1206)
- Special Education, MS (p. 1189)
- Speech-Language Pathology, MS (p. 1193)
- Systems Analysis and Design Certificate (p. 1130)
- Systems and Architecture Certificate (p. 1052)
- Teaching English to Speakers of Other Languages Certificate (p. 1089)
- Teaching Spanish to Heritage/Bilingual Learners Certificate (p. 1199)
- Technical Communication Certificate (p. 1089)
- Urban Leadership Certificate (p. 1197)
- Urban Studies, MS (p. 1195)
- Victimology and Victim Services Minor (p. 1206)
- Writing, MFA (p. 1200)

## Accounting

### • Accounting, MACC (p. 989)

### • Internal Audit, Fraud and Control Certificate (p. 991)

## Accounting, MACC

The Master of Accounting (MAcc) program at UNO is designed for dedicated students with career aspirations demanding a high level of accounting expertise. As such, the program involves both intensive and extensive professional preparation, with an emphasis on technology, data analytics, and quantitative methods. This focus prepares our graduates with the technological, analytical, and quantitative skills employers demand. Our program provides broad-based preparation for individuals seeking careers in public, private or not-for-profit organizations.

The MAcc program offers graduates an affordable, high-quality graduate education from an AACSB-accounting-accredited institution. Specialized accounting accreditation by the AACSB (Association to Advance Collegiate Schools of Business) is earned by demonstrating that we meet international standards of excellence relating to delivering and managing undergraduate and graduate accounting programs, and fewer than 200 institutions worldwide hold AACSB accounting accreditation.

A very practical benefit of having our MAcc program AACSB-accounting-accredited is that the Nebraska Board of Public Accountancy (NBPA) recognizes AACSB accounting accreditation as initial evidence that our graduates meet educational requirements to sit for the CPA exam. Final determination of CPA Exam eligibility remains under the discretion of the NBPA.

Our MAcc program is an approved STEM (Science, Technology, Engineering, and Mathematics) Designated Degree Program. Under the Optional Practical Training (OPT) program, international students who graduate from the program may stay in the United States and received training through work experience. Eligible F-1 students with STEM degrees who finish their

program of study and participate in this initial period of regular post-completion OPT have the option to apply for a STEM OPT extension.

## Program Related Information

### Program Contact

Jennifer Riley, PhD, Graduate Program Chair (GPC)  
402.554.3650  
unocbaaccounting@unomaha.edu

### Program Website (<https://macc.unomaha.edu/>)

### Financial Assistance

MAcc students are eligible to apply for graduate scholarships, fellowships, and assistantships and will find information about these opportunities at [MAcc.unomaha.edu \(https://www.unomaha.edu/college-of-business-administration/accounting/graduate-program/\)](https://www.unomaha.edu/college-of-business-administration/accounting/graduate-program/). Employed applicants should explore tuition reimbursement plans from their employers.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- Applicants must have earned a minimum GPA of (3.0/4.0) in their undergraduate program. The baccalaureate degree must have been received from a properly accredited institution. If the applicant's undergraduate degree is in accounting, then we further require a minimum GPA of 3.0 overall and upper-division accounting GPA. Applicants with a GPA less than 3.0 may petition for admission after they have submitted a satisfactory GMAT score.
- **Entrance Exam:** Applicants may be admitted by taking the GMAT and scoring at least 550.
- GMAT exemptions: Applicants may qualify for a GMAT exemption under one of the following four conditions:
  - Earned CPA license; OR
  - Successful completion a master's degree in a business field from an AACSB-accredited university; OR
  - ALL of the following must be met:
    - Completion of an undergraduate business degree with a major in accounting from an AACSB-accredited school, AND
    - Upper-division (3000/4000-level) accounting GPA of 3.0 or higher, AND
    - Overall GPA of 3.0 or higher; OR
  - ALL of the following must be met:
    - Currently working on an undergraduate business degree with a major in accounting from an AACSB-accredited school, AND
    - Earned a minimum of twelve upper-division (3000/4000-level) accounting credit hours with a GPA 3.0 or higher in these accounting courses, AND
    - Overall GPA of 3.0 or higher, AND
    - Maintaining the accounting and overall GPAs of 3.0 or higher through degree conferral
- An applicant with an earned bachelor's degree with a major in accounting from a non-AACSB college or university with 3.0 or higher overall and upper-division accounting GPAs will be



evaluated individually for a GMAT waiver. At a minimum this will require evidence of other accreditation credentials and a substantially earned accounting GPA (a minimum of 3.5 in all upper division accounting courses). Additional evidence may be required. The perspective student must contact the MAcc director to submit a request for evaluation.

- Credit received for internships is excluded from these calculations of overall and upper-division accounting GPAs.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 100, IELTS: 7.5, PTE: 68, Duolingo: 130
- **Note:** Applicants who have met the admission requirements above, but who have not completed all of the foundation course requirements, will be admitted provisionally. Provisionally admitted students must earn a minimum GPA of B (3.0/4.0) in all foundation courses taken to satisfy the requirements set out in their provisional admittance. Provisionally admitted students who do not earn a minimum GPA of B (3.0/4.0) in all foundation courses will be immediately dismissed from the MAcc program.

## Degree Requirements

### Foundation Requirements

Accounting is a technical subject and graduate work in the discipline requires a solid understanding of the material covered in the undergraduate curriculum. To make sure our students are adequately prepared we have a list of foundation requirements below. Students may be provisionally accepted to the program before they have completed or attempted any of the foundation requirements. However, admission will be provisional and no graduate-only accounting classes may be taken before the foundation requirements have been successfully completed—except students enrolled in their final foundation course may elect to enroll in graduate classes that do not require that course as a prerequisite.

Students who have completed the foundation requirements or their equivalents at a properly accredited institution before their application must have an overall GPA of (3.0/4.0) in these courses and earned no grade on any of the foundation courses lower than a C (2.0/4.0).

| Code                 | Title                                | Credits   |
|----------------------|--------------------------------------|-----------|
| ACCT 2010            | PRINCIPLES OF ACCOUNTING I           | 3         |
| ACCT 2020            | PRINCIPLES OF ACCOUNTING II          | 3         |
| ECON 2200            | PRINCIPLES OF ECONOMICS (MICRO)      | 3         |
| ECON 2220            | PRINCIPLES OF ECONOMICS (MACRO)      | 3         |
| BSAD 2130            | PRINCIPLES OF BUSINESS STATISTICS    | 3         |
| ACCT 3020            | BASIC FEDERAL INCOME TAXATION        | 3         |
| ACCT 3030            | INTERMEDIATE FINANCIAL ACCOUNTING I  | 3         |
| ACCT 3040            | INTERMEDIATE FINANCIAL ACCOUNTING II | 3         |
| ACCT 3050            | INTERMEDIATE MANAGERIAL ACCOUNTING   | 3         |
| ACCT 3080            | ACCOUNTING INFORMATION SYSTEMS       | 3         |
| ACCT 4080            | PRINCIPLES OF AUDITING               | 3         |
| <b>Total Credits</b> |                                      | <b>33</b> |

## MAcc Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>Core Courses</b>                                    |  |           |
| Select five courses from the following                 |  | 15        |
| ACCT 8050  | FINANCIAL STATEMENT ANALYSIS                   |           |
| ACCT 8080  | CURRENT TECHNOLOGY USE IN ACCOUNTING           |           |
| ACCT 8090  | INFORMATION SYSTEMS AUDITING                   |           |
| ACCT 8210  | FINANCIAL ACCOUNTING THEORY                    |           |
| ACCT 8220  | GRADUATE TOPICS IN INCOME TAXATION             |           |
| ACCT 8230  | MANAGEMENT ACCOUNTING ISSUES                   |           |
| ACCT 8250  | SEMINAR IN ACCOUNTING                          |           |
| ACCT 8260  | FEDERAL TAX RESEARCH AND PLANNING              |           |
| ACCT 8280  | SEMINAR IN ACCOUNTING INFORMATION SYSTEMS      |           |
| ACCT 8290  | ADVANCED FINANCIAL AUDITING                    |           |
| <b>Accounting Ethics Component <sup>1</sup></b>        |  |           |
| ACCT 8056  | PRINCIPLES OF INTERNAL AUDIT                   | 3         |
| <b>MAcc Electives <sup>1</sup></b>                     |  | <b>6</b>  |
| Select at least two courses from the following         |  |           |
| ACCT 8016  | ADVANCED FINANCIAL ACCOUNTING                  |           |
| ACCT 8046  | ADVANCED FEDERAL INCOME TAXATION               |           |
| ACCT 8066  | ADVANCED MANAGERIAL ACCOUNTING                 |           |
| ACCT 8076  | GOVERNMENTAL/NONPROFIT ACCOUNTING AND AUDITING |           |
| <b>Additional Electives</b>                            |  |           |
| Approved electives to reach a total of 30 credit hours |  |           |
| <b>Total Hours</b>                                     |  | <b>30</b> |

<sup>1</sup> If the equivalent undergraduate course has been completed (ACCT 4050, 4010, 4040, 4060, or 4070), students cannot take the graduate equivalent course. Other approved electives will be discussed and approved by the MAcc program director.

## Exit Requirement

- Comprehensive Examination

## Other Program Related Information

**Transfer credits:** All transfer credits must be approved by the MAcc program director. A maximum of nine credit hours may be considered, and must be earned at an AACSB-accredited institution.

## Academic Performance

In addition to the Quality of Work Standards required by the UNO Graduate College, MACC students may repeat only once any ACCT 8–0 or ACCT 8–6 level course in which they receive any grade, including "W" or "I".

Students earning a third grade of "C+" or below (or any single grade of "C-" (1.67 on a 4.0 scale) will be automatically dismissed from the MACC program. Dismissed students will be immediately administratively withdrawn from all courses in which they are enrolled for MAcc credit in any subsequent semester or summer session until reinstatement has been granted by the MAcc graduate program committee (MAcc GPC).

Students who have been dismissed from the MAcc program may submit a written petition for reinstatement to the MAcc GPC. Students who have petitioned the MAcc GPC for reinstatement may not enroll in any courses



for MAcc credit. Upon receiving a petition for reinstatement, the MAcc GPC will evaluate the student's petition. As part of the reinstatement petitioning process, the MAcc GPC reserves the right to examine the student's academic record and reserves the right to speak to any previous instructor who has taught the student, and this information may be used by the MAcc GPC in the reinstatement decision. Information provided by previous instructors will not be shared with the student. Reinstatement is a privilege, and not all students who are dismissed will be reinstated. Students who have been reinstated will be subject to reinstatement conditions as specified by the MAcc GPC. These reinstatement conditions may include retaking one or more courses in which the student must earn a grade of "B" (3.0) or higher (the exact grade requirements for retaken courses may in fact be higher than "B" (3.0)). Students not achieving the reinstatement conditions will be automatically dismissed with no additional opportunity for reinstatement.

## Internal Audit, Fraud and Control Certificate

The objective of the internal auditing, fraud, and control certificate is to provide students with current information in the profession of internal audit, accounting information systems, and fraud risk assessment. The certificate provides a foundation for the Certified Internal Auditor (CIA) examination and license certification. Earning this certificate will encourage and prepare students to pursue the CIA license credential. This certificate and potential professional certification will help students sharpen their skills and earn a standard of credibility and recognition of competence in the field.

## Program Related Information

### Program Contact

Jennifer Riley, PhD, Graduate Program Chair (GPC)  
402.554.3650  
unocbaaccounting@unomaha.edu

### Program Website (<https://macc.unomaha.edu/>)

University of Nebraska Omaha

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- Applicants must have earned a minimum GPA of (3.0/4.0) in their undergraduate program. The baccalaureate degree must have been received from a properly accredited institution. If the applicant's undergraduate degree is in accounting, then we further require a minimum GPA of 3.0 overall and upper-division accounting GPA.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum

language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

## Degree Requirements

| Code                 | Title                                     | Credits   |
|----------------------|---|-----------|
| ACCT 8056            | PRINCIPLES OF INTERNAL AUDIT              | 3         |
| ACCT 8080            | CURRENT TECHNOLOGY USE IN ACCOUNTING      | 3         |
| ACCT 8090            | INFORMATION SYSTEMS AUDITING              | 3         |
| ACCT 8280            | SEMINAR IN ACCOUNTING INFORMATION SYSTEMS | 3         |
| <b>Total Credits</b> |   | <b>12</b> |

- Applicants must meet the course pre-requisites for the courses in the certificate program.

## Athletic Training, MA

The mission of the athletic training program at the University of Nebraska at Omaha is to prepare students for successful careers or advanced academic studies in the field of athletic training by providing didactic and clinical education, resources, and opportunities which lead to the growth and development of dedicated practitioners, reflective scholars, and responsible citizens.

## Program Related Information

### Accreditation

This program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

### Program Contact

Sam Wilkins, PhD, Director, Athletic Training Programs and Graduate Program Chair (GPC)  
402.554.2670  
sjwilkins@unomaha.edu

### Program Website (<https://www.unomaha.edu/college-of-education/health-kinesiology/graduate/athletic-training/>)

### Alternative Entry into the MA in athletic training from the BS in kinesiology

The School of Health and Kinesiology offers an alternative entry into the MA in athletic training, which allows outstanding students to complete the BS in Education undergraduate kinesiology degree and the MA in athletic training graduate degree. The alternative entry program is designed for dedicated students who are motivated and willing to take on early the challenges relating to graduate education. Interested students are encouraged to meet with their academic advisor for more information about this program.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

Summer 2026: The priority candidate deadline is January 15. Applications may be accepted through April 15.

## Other Requirements

- Minimum cumulative undergraduate GPA of 3.0/4.0 is required for unconditional admission.
  - Students with a 2.70-2.99 cumulative GPA may apply and be admitted provisionally. Provisional admission typically means that the admitted student must maintain a 3.0 GPA or higher, and earn "B" or higher on all courses during the first 12 hours of graduate coursework.
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110 in order to be considered a strong candidate for admission.
- Statement of Purpose:** Address the following in under 1000 words:
  - Why should you be selected for the University of Nebraska at Omaha Graduate athletic training Program?
  - Describe your attributes that you feel are clearly and directly related to the profession of athletic training.
  - What in your life has most directly influenced your choice of becoming an athletic trainer?
  - What is/are your primary career goal(s)?
- Letters of Recommendation:** Two letters from individuals who should be able to speak about your abilities as a student, your leadership and problem-solving skills, and your potential as an athletic training student.
- Applicants must complete a minimum of 25 hours of observation with an athletic trainer (ATC).
  - These hours should be completed in the 12-month period prior to application to the program. For students with more than 25 hours, a minimum of 25 hours must be completed in the 12-month period prior to application.
- All graduate candidates accepted to the UNO athletic training program:
  - Who received their bachelor's degree from another institution must provide the course syllabi and course outlines/schedules in order to provide evidence that specific National Athletic Trainers' Association Educational Competencies and Proficiencies were completed.
  - Must provide proof of physical examination and required vaccinations prior to admission. The physical exam must be completed within 12 months of the first day of our summer session course (typically the first week of July).

## Degree Requirements

The following undergraduate prerequisites (deficiencies) must be completed prior to admission with a grade of "C" or better:

- Anatomy and Physiology (6 Credits)
- Biology (3 Credits)
- Biomechanics (3 Credits)
- Chemistry (3 Credits)
- Exercise Physiology (3 Credits)
- Nutrition (3 Credits)
- Physics (3 Credits)
- Psychology (3 Credits)

## Other Requirements

Once admitted to the athletic training program, the student will obtain clinical hours as part of course requirements. Students will be expected to obtain an average of 20 hours of clinical experience per week during each

fall and spring semester, which include some nights, weekends, and travel. Required clinical experiences must be obtained over a minimum of six (6) semesters.

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses</b>   |  |           |
| In order to graduate with an MA in athletic training, the following courses must be completed with an overall cumulative GPA 3.0 or higher. |  |           |
| ATHT 8110   | ATHLETIC TRAINING TECHNIQUES                               | 2         |
| ATHT 8120   | EMERGENCY MANAGEMENT OF INJURY AND ILLNESS                 | 2         |
| ATHT 8130   | THERAPEUTIC INTERVENTIONS I                                | 2         |
| KINS 8320   | EVIDENCE-BASED PRACTICE IN SPORTS MEDICINE                 | 3         |
| ATHT 8230   | THERAPEUTIC INTERVENTIONS II                               | 2         |
| ATHT 8240   | ORTHOPEDIC ASSESSMENT I                                    | 2         |
| ATHT 8250   | CLINICAL PRACTICUM IN ATHLETIC TRAINING I                  | 2         |
| ATHT 8330   | THERAPEUTIC INTERVENTIONS III                              | 2         |
| ATHT 8340   | ORTHOPEDIC ASSESSMENT II                                   | 2         |
| ATHT 8350   | CLINICAL PRACTICUM IN ATHLETIC TRAINING II                 | 2         |
| ATHT 8360   | ADVANCED ORTHOPEDIC & MEDICAL ASPECTS OF ATHLETIC TRAINING | 3         |
| ATHT 8410   | ATHLETIC TRAINING ADMINISTRATION                           | 3         |
| ATHT 8450   | INTERNSHIP IN ATHLETIC TRAINING                            | 2         |
| ATHT 8540   | ORTHOPEDIC ASSESSMENT III                                  | 2         |
| HEKI 8106   | ADVANCED MUSCULOSKELETAL ANATOMY                           | 3         |
| ATHT 8550   | CLINICAL PRACTICUM IN ATHLETIC TRAINING III                | 2         |
| ATHT 8650   | CLINICAL PRACTICUM IN ATHLETIC TRAINING IV                 | 2         |
| KINS 8970   | TOPICS IN SPORTS MEDICINE                                  | 3         |
| ATHT 8900   | ATHLETIC TRAINING PROGRAM COMPREHENSIVE ASSESSMENT         | 0         |
| <b>Electives/Thesis</b>   |  |           |
| Select one of the following (with advisor): <sup>1</sup>  |  | 6         |
| Six graduate hours of electives (ATHT, KINS, PHHB, BMCH)  |  |           |
| HEKI 8990   | THESIS (6 hours)   |           |
| <b>Total Credits</b>  |  | <b>47</b> |

<sup>1</sup> For more information, please call 402.554.2670.

## Exit Requirements

In order to graduate with an MA in athletic training, the following criteria must be met:

- Successful completion ATHT 8900 administered during the student's final semester.
- Successful completion of all clinical education requirements as given in course syllabi and the Athletic Training Student Handbook.

## Biology

## Degree Programs Offered

- Biology, MS (p. 993)**

# Biology, MS

The goal of the Department of Biology is to provide students with individualized, broad training in biology leading to a Master of Science (MS) degree. Original research is an integral part of both the thesis and non-thesis degree options. Faculty areas of expertise include ecology, physiology, genetics, molecular biology, taxonomy, behavior, and developmental biology of a wide variety of organisms. The MS degree prepares students for employment in industry, private or government agencies, and academics, as well as further education in professional programs, such as the PhD or MD.

## Program Related Information

### Program Contact

Roxi Kellar, PhD, Graduate Program Chair (GPC)  
402.554.2840  
rkellar@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/biology/>)**

The Department of Biology annually awards graduate assistantships. New applicants should indicate their interest in applying for an assistantship as part of the admission application and should include your employment history along with names and contact information of three references in your resume or CV. The assistantships require 20 hours per week of teaching and/or other assignments.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the applicant has elected to begin coursework.

To receive full consideration for funding, applications for fall or summer must be received by January 15. Spring applicants must submit applications by September 15 for funding consideration. Applicants submitting applications after these priority deadlines will be considered for graduate teaching assistantships if funding is available and may apply for support in subsequent semesters.

### Other Requirements

- The applicant's GPA in undergraduate biology courses will be determined and must be 3.0 or above (on a 4.0 scale).
- Applicants should have a strong background in biology and related disciplines with a minimum of 24 credit hours in biology or related life sciences, including courses in ecology and molecular or cell biology, as well as college-level course work in chemistry and math or statistics. Applicants lacking courses in one or more of these areas may be admitted provisionally and required to complete additional courses during their graduate program as a condition of admission.
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 95, IELTS: 7, PTE: 64, Duolingo: 125
- Statement of Purpose:** The Department of Biology strongly encourages applicants to contact a professor whose research interests overlap with their own goals for graduate research. Due to the

individualized nature of the biology graduate program, otherwise qualified applicants may not be admitted if appropriate faculty are not available to serve as advisors. Please indicate in your statement of purpose which faculty member has been contacted or plan to contact.

- Resume or curriculum vitae (CV)-** including an outline of educational background, employment history, research experience, and a list of references.
- Letters of Recommendation:** Three academic letters of recommendation are required.
- Applicants not meeting the GPA criteria may provide written evidence of experience or potential to perform outstanding graduate work and petition the department for provisional admission as long as their biology GPA is above the 2.7 minimum set by the Graduate College. Students seeking provisional admission should contact two or more biology faculty to discuss admission. Provisional admission will not be removed until the student has earned at least the grade of "B" (3.0 on a 4.0 scale) in each course involved in the first 12 hours of graduate study. Questions about requirements for admission should be directed to the Department of Biology.

## Degree Requirements

### Thesis Option

At least 50% of the 30 graduate credit hours must be graduate only courses (8xx0). The 30 credit hours of graduate course work must include:

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Course</b>   |   |           |
| BIOL 8010  | SEMINAR IN BIOLOGY                                      | 1         |
| BIOL 8150  | PROFESSIONAL DEVELOPMENT IN BIOLOGY                     | 2         |
| BIOL 8250  | STATISTICAL ANALYSIS AND DESIGN FOR BIOLOGICAL RESEARCH | 4         |
| <b>Electives</b>   |   |           |
| To be determined by the student, and approved by his/her graduate advisory committee; graduate courses in other departments may be included. |   | 17        |
| <b>Exit Requirement</b>  |   |           |
| BIOL 8990  | THESIS  | 6         |
| <b>Total Credits</b>   |   | <b>30</b> |

### Non-Thesis Option

At least 50% of the 36 graduate credit hours must be graduate only courses (8xx0). The 36 credit hours of graduate course work must include:

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>  |   |           |
| BIOL 8010  | SEMINAR IN BIOLOGY  | 1         |
| BIOL 8020  | INDEPENDENT RESEARCH IN BIOLOGY (minimum of 2 credit hours) | 2         |
| BIOL 8150  | PROFESSIONAL DEVELOPMENT IN BIOLOGY                         | 2         |
| BIOL 8250  | STATISTICAL ANALYSIS AND DESIGN FOR BIOLOGICAL RESEARCH     | 4         |
| <b>Electives</b>   |   |           |
| To be determined by the student, and approved by his/her graduate advisory committee; graduate courses in other departments may be included. |   | 27        |
| <b>Total Credits</b>   |   | <b>36</b> |

Any substitutions to the required courses in the thesis or non-thesis options must be approved by the graduate program committee.

Exit Requirements

All degree students must form a supervisory committee of faculty, chaired by a major advisor from the Department of Biology. In consultation with the supervisory committee, students will develop a plan of study listing courses required for graduation. This will include any deficiencies required as a condition of admission and a minimum of 30 graduate credits for the thesis option and a minimum of 36 credits for the non-thesis option. Graduate students are expected to attend the Graduate Seminar (BIOL 8010) even when not registered for it.

Thesis Option (6 hours):

Thesis candidates must complete 6 credit hours of BIOL 8990, Thesis. All candidates should carefully review the Graduate College requirements for forming a Supervisory Committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis.

Non-Thesis Option:

Comprehensive Examination administered by the supervisory committee.

Business for Bioscientists Certificate

This certificate program provides a basic understanding of business principles to biomedical PhD students. While UNMC PhD students receive extensive training in research methods and the principles of biology and medicine, they receive no formal training in business fundamentals. However, a significant portion of biomedical PhD students obtain employment in pharmaceutical, biotechnology, and other industries. For students with these career goals, formal training in business would markedly enhance their career options and competitiveness for these industry positions.

Program Related Information

Program Contact

402.554.2448  
mba@unomaha.edu

Program Website (<https://www.unomaha.edu/college-of-business-administration/mba/>)

Admissions

General Application Requirements and Admission Criteria (p. 972)

Application Deadlines

- Spring 2026: November 1
- Fall 2026: July 1

Other Requirements

- Applicants must be post-undergraduate students regardless of their current status in a PhD program.
- All applicants must have earned a minimum junior/senior GPA of 2.85.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Include employment and educational history

Degree Requirements

The 12 credit hours needed to fulfill certificate requirements does not include the foundation courses listed below.

Foundation Courses

| Code  | Title                                 | Credits  |
|---|---------------------------------------|----------|
| These courses are not applicable to the completion of the certificate requirements. |                                       |          |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3        |
| ECON 1200   | SURVEY OF ECONOMICS                   | 3        |
| <b>Total Credits</b>  |                                       | <b>6</b> |

Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses</b>                         |  | <b>4</b>  |
| BSAD 8060                                       | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP                              | 2         |
| BSAD 8420                                       | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2         |
| <b>Electives</b>                                |  |           |
| Select a minimum of 5 hours from the following: |  | 5         |
| BSAD 8150                                       | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2         |
| BSAD 8210                                       | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2         |
| BSAD 8250                                       | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2         |
| <b>Exit Requirements</b>                        |  |           |
| BSAD 8910                                       | SPECIAL TOPICS IN BUSINESS (Business for Bioscientists) <sup>1</sup>   | 3         |
| <b>Total Credits</b>                            |  | <b>12</b> |

<sup>1</sup> All other courses in the program must have been completed prior to enrolling in BSAD 8910.

Biomechanics, MS

The MS in biomechanics is housed within the Department of Biomechanics at the University of Nebraska at Omaha. It is a degree program designed to enable students from Nebraska, nationally, and abroad to develop skills and competencies in the field of biomechanics. This program provides a new understanding of the dynamical aspects of human movement via multidisciplinary research using an evidence-based approach through clinical and translational research.

The goal of the program is to prepare students for the workforce or the pursuit of a doctoral degree. The coursework related to this degree program will provide the students with a strong and broad base which will enable students to enter the workforce at a professional level commensurate with a master's degree or to continue their training in numerous doctoral program areas. An additional strength of the coursework is its emphasis on quantitative sciences. This emphasis allows students to stand out among other candidates for fellowships, assistantships, and scholarships given to these students.

The program is enhanced by an evidence-based approach through interdisciplinary clinical and translational research. This program is

designed to be an excellent choice for students planning to continue their education beyond the bachelor's degree in the fields of biomechanics, medicine, physical therapy, occupational therapy, and other science based programs. With the high number of applicants in health professions, the MS in biomechanics gives applicants additional training in movement and quantitative sciences to stand out among other applicants.

## Program Related Information

### Program Contact

402.554.5892

unobiomechanics@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-education/biomechanics-core-facility/>)**

### Fast Track Program

The Department of Biomechanics has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing a BS in biomechanics desiring to pursue a MS in biomechanics.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - Applicants for this program are highly encouraged to pursue research opportunities in the Department of Biomechanics or comparable programs.
  - The admit term must be after the completion term of the undergraduate degree.

All 8000 level BMCH courses are eligible for students as part of the Fast Track program.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected

to begin coursework. Priority deadline of February 1 for consideration of department funded graduate assistantships.

## Other Requirements

- GPA of 3.0 in undergraduate program
- **Undergraduate Deficiency Courses:**
  - MATH 1950 Calculus I
  - BMCH 2400 Human Physiology & Anatomy I (or equivalent)
  - BMCH 4630 Biomechanics (or equivalent)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110, with no exceptions to this policy.
- **Statement of Purpose:** Written statement of goals and rationale for entering this graduate program. Also, identify the intended area of focus and the name of the faculty advisor with whom you wish to work (maximum one-page).
- **Resume or Curriculum Vitae (CV)**
- **Letters of Recommendation:** Two are required

## Degree Requirements

| Code   | Title                                | Credits   |
|--|--------------------------------------|-----------|
| <b>Seminar Requirement (2 semesters)</b>   |                                      |           |
| BMCH 8000  | SEMINAR IN BIOMECHANICS              | 0         |
| <b>Statistics Requirement-Select 3 hours</b>   |                                      | <b>3</b>  |
| BMCH 8030  | BIOSTATISTICS IN BIOMECHANICS I      |           |
| KINS 8040  | ADVANCED STATISTICS                  |           |
| <b>Biomechanics Requirement- Select 3 hours</b>  |                                      | <b>3</b>  |
| BMCH 8450  | ADVANCED BIOMECHANICS                |           |
| BMCH 8696  | CARDIOVASCULAR BIOMECHANICS          |           |
| BMCH 8200  | MATLAB FOR MOVEMENT SCIENCES         | 3         |
| BMCH 8900  | INDEPENDENT RESEARCH IN BIOMECHANICS | 3         |
| <b>Select Thesis or Non-Thesis Option</b>  |                                      | <b>24</b> |
| Thesis Option  |                                      |           |
| BMCH 8990  | THESIS IN BIOMECHANICS               |           |
| 18 credit hours of electives-Graduate courses with KINS, BMCH or HEKI prefix and other advisor approved courses. |                                      |           |
| Non-Thesis Option  |                                      |           |
| 24 credit hours of electives-Graduate courses with KINS, BMCH or HEKI prefix and other advisor approved courses. |                                      |           |
| All required courses require a grade of B or better.   |                                      |           |
| <b>Total Credits</b>   |                                      | <b>36</b> |

## Exit Requirements

- Thesis Option- 6 hours BMCH 8990
- Non-Thesis Option - Comprehensive Examination

The student and faculty advisor will determine the Program of Study, including the elective courses and general area of research for the thesis.



## Concentrations

### Sports Biomechanics Concentration

| Code                 | Title                         | Credits   |
|----------------------|-------------------------------|-----------|
| BMCH 8646            | ORTHOPEDIC BIOMECHANICS       | 3         |
| BMCH 8686            | SPORTS BIOMECHANICS           | 3         |
| KINS 8076            | OPTIMIZING SPORTS PERFORMANCE | 3         |
| KINS 8970            | TOPICS IN SPORTS MEDICINE     | 3         |
| <b>Total Credits</b> |                               | <b>12</b> |

## Biomedical Informatics

### Degree Programs Offered

- Biomedical Informatics, MS (p. 996)
- Biomedical Informatics, PhD (p. 998)

## Biomedical Informatics, MS

The vision of this program is to develop the next generation of biomedical specialists who are uniquely positioned to advance research and practice in contemporary information and knowledge management that impact biomedical, clinical and translational research, healthcare services, healthcare practice, public health care, and healthcare delivery in general. Graduates will be able to use their preparation to apply and investigate information and communication technologies to solve problems in the related biomedical fields in a comprehensive, competitive and effective way.

The program is designed as a research-oriented program with the goals of preparing graduate students to conduct advanced basic and applied research while capably serving as prospective employees in academic research as well as the IT healthcare industry. The program is geared towards motivated traditional students and technology specialists with the appropriate educational background that are ready to expand their knowledge of contemporary biomedical informatics issues and become biomedical informatics in academic, clinical, and organizational settings.

## Program Related Information

### Program Contact

si2gpc@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/degrees-programs.php>)**

### Fast Track

The School of Interdisciplinary Informatics (SI2) has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

Program Specifics:

- This program is available for undergraduate students pursuing any of the following:

- Students pursuing a CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field.
- Students pursuing the BS in Neuroscience.
- This program is available for undergraduate students pursuing any CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
- Admission to Fast Track does NOT guarantee admission to the graduate program.
- The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

### Other Requirements

- The minimum undergraduate grade point average (GPA) requirement for the MS in BMI program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a 4-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Writing Sample:** a two-page, double-spaced, word-processed essay that addresses the following two topics:
  - Discussion of two accomplishments that demonstrate your potential for success in the graduate program

- Discussion of your unique personal qualities and life experiences that distinguish you from other applicants to this graduate program
- **Resume:** Submit a detailed resume indicating your work experience and background.
- Optional: One letter of recommendation from a reference who can evaluate your work and/or academic achievements.
- Optional: Although not required, applicants are strongly encouraged to arrange for an interview either one or more members of the graduate program committee by directly contacting the committee chair. Telephone interviews are highly recommended for applicants outside the local area.

## Degree Requirements

### Science Foundation Requirements

Foundation courses ensure that all students in the biomedical informatics (BMI) MS program have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for subsequent classes in the program, but they also contain a distinct body of knowledge that is an important part of the BMI professional's education. All foundation courses are required for all students. However, applicants who have obtained an undergraduate BMI degree will typically already have this foundation. In such cases, most, if not all, foundation courses are waived. Applicants with undergraduate degrees in other disciplines, including computer science, management information systems, or engineering, will usually require one or more foundation courses. Occasionally, an applicant's work experience may be sufficient to waive one or more of the foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out.

Applicants should have background in anatomy, physiology, cell biology or equivalent (any health science degree). Applicants with degrees in other disciplines will usually have to take foundation courses.

Foundation courses cannot be used to satisfy the 36 semester hours required for the MS in biomedical informatics degree. Applicants who have not completed all the foundation course requirements may be admitted on a provisional status until those requirements have been completed. All foundation courses must be completed prior to or concurrent with the first six hours of MS in BMI graduate coursework.

| Code      | Title                                       | Credits |
|-----------|---|---------|
| BIOI 1000 | DIGITAL HEALTH AND BIOLOGICAL SYSTEMS       | 4       |
| BIOL 2140 | GENETICS                                    | 4       |
| CIST 2500 | INTRODUCTION TO APPLIED STATISTICS FOR IS&T | 3       |

### Information Technology Foundation Requirements

Foundation courses ensure that all students in the MS BMI program have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for subsequent classes in the program, but they also contain a distinct body of knowledge that is an important part of the BMI professional's education. All foundation courses are required for all students. However, applicants who have obtained an undergraduate BMI degree will typically already have this

foundation. In such a case, most, if not all, foundation courses are waived. Applicants with undergraduate degrees in other disciplines, including computer science, management information systems, or engineering, will usually require one or more foundation courses. Occasionally, an applicant's work experience may be sufficient to waive one or more of the foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out.

Applicants should have background in programming languages, data structures & algorithms, statistics, math or experimental methods (any engineering, computer science related degree). Applicants with degrees in other disciplines will usually have to take foundation courses.

Foundation courses cannot be used to satisfy the 36 semester hours required for the MS in biomedical informatics degree. Applicants who have not completed all the foundation course requirements may be admitted on a provisional status until those requirements have been completed. All foundation courses must be completed prior to or concurrent with the first six hours of MS in BMI graduate coursework

| Code         | Title   | Credits |
|--------------|---|---------|
| CIST 1400    | INTRODUCTION TO COMPUTER SCIENCE I                    | 3       |
| or CIST 1600 | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING |         |
| CIST 2500    | INTRODUCTION TO APPLIED STATISTICS FOR IS&T           | 3       |

### Requirements

| Code                          | Title  | Credits   |
|-------------------------------|--|-----------|
| <b>Required Each Semester</b> |  |           |
| BMI 8000                      | ADVANCES IN BIOMEDICAL INFORMATICS   |           |
| <b>Core Courses</b>           |  | <b>12</b> |
| BMI 8100                      | INTRODUCTION TO BIOMEDICAL INFORMATICS                                       |           |
| BMI 8300                      | PUBLIC HEALTH GENOMICS   |           |
| ISQA 8060                     | RESEARCH IN MIS  |           |
| or HCC 8300                   | RESEARCH FOUNDATIONS   |           |
| ISQA 8156                     | ADVANCED STATISTICAL METHODS FOR IS&T (or BIOS 806, Biostatistics from UNMC) |           |
| <b>Elective Core Courses</b>  |  | <b>6</b>  |

Select two of the following:

|                |   |
|----------------|---|
| BMI 8400       | LINEAR ALGEBRA FOR ADVANCED COMPUTING AND AI          |
| BMI 8540       | FOUNDATIONS IN PROGRAMMING FOR BIOMEDICAL INFORMATICS |
| BMI 8866       | BIOINFORMATICS ALGORITHMS                             |
| CSCI/MATH 8050 | ALGORITHMIC GRAPH THEORY                              |
| CSCI/MATH 8156 | GRAPH THEORY & APPLICATIONS                           |
| CSCI 8456      | PRINCIPLES OF ARTIFICIAL INTELLIGENCE                 |
| ISQA 8106      | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION     |

|           |                                      |
|-----------|--------------------------------------|
| ISQA 8220 | ADVANCED SYSTEMS ANALYSIS AND DESIGN |
| ISQA 8410 | DATA MANAGEMENT                      |
| ISQA 8720 | APPLIED STATISTICAL MACHINE LEARNING |

#### Research Electives 6

Select two of the following:

|           |   |
|-----------|---|
| BMI 8020  | ADVANCED COURSE IN BIOINFORMATICS         |
| CYBR 8470 | SECURE WEB APPLICATION DEVELOPMENT        |
| ISQA 8080 | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS |
| ISQA 8160 | APPLIED DISTRIBUTION FREE STATISTICS      |
| ISQA 8340 | APPLIED REGRESSION ANALYSIS               |
| ISQA 8750 | STORYTELLING WITH DATA                    |

#### Track Electives 6-9

Select one of the following (see details below):

|                          |
|--------------------------|
| Bioinformatics Track     |
| Health Informatics Track |

#### Exit Requirement 3-6

#### Coursework Option 3

|           |                   |
|-----------|-------------------|
| CIST 8950 | GRADUATE CAPSTONE |
|-----------|-------------------|

#### Thesis Option 6

|          |                                  |
|----------|----------------------------------|
| BMI 8990 | THESIS IN BIOMEDICAL INFORMATICS |
|----------|----------------------------------|

#### Total Credits 36

### Bioinformatics Track Electives

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

Select 6-9 hours from the following (depending on which exit requirement is selected):

|           |  |
|-----------|--|
| BIOL 8136 | MOLECULAR GENETICS   |
| BMI 8080  | SEMINAR IN BIOMEDICAL INFORMATICS                                    |
| BMI 8850  | BIOMEDICINE FOR THE NONMEDICAL PROFESSIONAL                          |
| BMI 8896  | COMPUTERIZED GENETIC SEQUENCE ANALYSIS                               |
| BMI 8900  | INDEPENDENT RESEARCH IN BIOMEDICAL INFORMATICS                       |
| BMI 8970  | INDEPENDENT STUDY IN BIOINFORMATICS                                  |
| CSCI 8340 | DATABASE MANAGEMENT SYSTEMS II                                       |
| CSCI 8876 | DATA MANAGEMENT AND KNOWLEDGE DISCOVERY IN COMPUTING AND INFORMATICS |
| ISQA 8460 | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD                     |

### Health Informatics Track Electives

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

Select 6-9 hours from the following (depending on which exit requirement is selected):

|           |  |
|-----------|--|
| BMI 8080  | SEMINAR IN BIOMEDICAL INFORMATICS              |
| BMI 8900  | INDEPENDENT RESEARCH IN BIOMEDICAL INFORMATICS |
| BMI 8970  | INDEPENDENT STUDY IN BIOINFORMATICS            |
| ISQA 8736 | DECISION SUPPORT SYSTEMS                       |

|          |                                     |
|----------|-------------------------------------|
| HCC 8220 | DESIGN PROCESS                      |
| PA 8740  | HEALTH CARE POLICY                  |
| BMI 840  | Electronic Health Records from UNMC |

### Exit Requirements

- Thesis Option: BMI 8990 6 Hours
  - All candidates should carefully review the Graduate College requirements for forming a supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis. This committee will be responsible for planning and supervising the student's thesis in coordination with the the BMI GPC. A supervisory committee shall be formally established for each student upon completion of at least nine hours of coursework or one year (which ever comes first) in the MS program. This committee will have responsible for planning and supervising the student's thesis in coordination with the campus-based BMI graduate program committee.
- Capstone Option: CIST 8950 3 Hours
  - Students who select the capstone exit option will have to select another elective in order to fulfill the program's 36 credit hour requirement.

## Biomedical Informatics, PhD

The Doctor of Philosophy in biomedical informatics (BMI) degree is designed to prepare the next generation of biomedical informatics researchers who are uniquely positioned to advance research and practice in contemporary information and knowledge management that impact biomedical, clinical and translational research, healthcare services, healthcare practice, public health care, and healthcare delivery in general. Our graduates will be prepared to proficiently apply and navigate information and computer technologies to drive innovative solutions across various biomedical domains.

The mission of the PhD program is to build following competencies in our graduates:

- Understanding of theory and application of biomedical informatics, integrating computer science, medicine, biology, and healthcare.
- Building proficiency in analyzing, designing, developing, and implementing cutting-edge biomedical informatics systems and technologies.
- Developing capability to conduct and oversee high-quality, basic and applied research in the BMI domain.
- Establishing solid foundation in academic teaching principles.
- Nurturing comprehensive knowledge of multidisciplinary and emerging areas within biomedical informatics.

## Program Related Information

### Program Contact

Dhundy (Kiran) Bastola, PhD, Doctoral Program Committee Chair  
402.554.4899

Emily Wiemers, Graduate Advisor  
402.554.3819

bmidpc@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/degrees-programs.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

### Other Requirements

- **Entrance Exam:** Graduate Record Examination (GRE) scores are required for most applicants but are only one component of a holistic admission decision. GRE requirement may be waived for students on an individual basis based on a review by the Doctoral Program Committee.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission. Minimum acceptable scores are:
  - Internet-based TOEFL: 90, IELTS: 7.0, PTE: 64, Duolingo: 120
- **Statement of Purpose** (not to exceed two pages) which address the following questions:
  - What do you hope to accomplish with a PhD in biomedical informatics?
  - Why are you applying to this specific program?
  - What background or qualifications do you have that you believe are essential for success in this program?
  - What general area or topics do you hope to study?
  - What do you expect to be doing five to ten years after completing the doctoral program?
- **Writing Sample:** Evidence of graduate potential in the form of academic papers, publications, theses or project reports done in an academic or industrial setting.
- **Resume:** Submit a detailed resume indicating your work experience and background.
- **Letters of recommendation:** Three letters from references who can provide a thorough evaluation of your strengths and weaknesses regarding your academic work, and who are qualified to assess your likelihood of success in graduate school.

Applicants must follow the formal procedures established for admission to the graduate program at the appropriate NU campus. Applicants must have:

- successfully completed a baccalaureate degree from an accredited institution: preference will be given to students with a master's or doctoral degree from a related field.
- demonstrate superior performance in mathematics, including calculus, discrete mathematics and statistics, and a sequence of courses in the theory and practice of one or more information technology areas.
- documented test aptitude, interest and commitment to scholarly activities and research.
- proficiency in English, sufficient to engage in advanced studies.

Evaluation for admission will be based on a portfolio approach that will include the following:

- class standing during the applicant's baccalaureate and master's level studies.
- grade point average in the undergraduate degree that is equivalent to 3.5 or higher.
- verbal, quantitative, and analytic scores on the aptitude tests of the Graduate Record Examination (GRE)
- letters of recommendation
- other evidence of graduate potential, such as a portfolio of quality of papers or publications, projects, etc., completed by the applicant either in an academic or industrial setting.
- A personal interview, if warranted and feasible.

International students may be assessed for English proficiency and asked to take courses in English as a second language. All students will be encouraged to take courses to improve their technical writing and professional communication skills.

## Degree Requirements

The doctoral BMI program typically requires 90 credit hours beyond a baccalaureate degree. It consists of common required foundation/core courses, including doctoral seminars and colloquia, a major field of study, and a cognate/minor field of study in a related discipline.

The doctoral program is divided into four phases from a student's perspective: foundation/core coursework, major field of study/research coursework, additional elective coursework in cognate field/minor field of study (as advised by the student's supervisory committee), and doctoral research and dissertation.

### Information Technology Prerequisites

Applicants should have a background in programming languages, data structures, statistics, math or experimental methods (any engineering, computer science related degree). Students with degrees in other disciplines will usually have to take foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

| Code      | Title                                       | Credits |
|-----------|---|---------|
| CSCI 1200 | COMPUTER SCIENCE PRINCIPLES                 | 3       |
| CSCI 1204 | COMPUTER SCIENCE PRINCIPLES LABORATORY      | 1       |
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I          | 3       |
| CSCI 1620 | INTRODUCTION TO COMPUTER SCIENCE II         | 3       |
| CIST 2500 | INTRODUCTION TO APPLIED STATISTICS FOR IS&T | 3       |
| CSCI 3320 | DATA STRUCTURES                             | 3       |
| CSCI 8010 | FOUNDATIONS OF COMPUTER SCIENCE             | 3       |

### Science Prerequisites

Applicants should have a background in anatomy, physiology, cell biology or equivalent (any health science degree). Students with degrees in other disciplines will usually have to take foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

| Code      | Title                                       | Credits |
|-----------|---|---------|
| BIOL 2140 | GENETICS                                    | 4       |
| BIOL 2740 | HUMAN ANATOMY AND PHYSIOLOGY I              | 4       |
| BIOL 2840 | HUMAN ANATOMY AND PHYSIOLOGY II             | 4       |
| BIOL 3020 | MOLECULAR BIOLOGY OF THE CELL               | 3       |
| CIST 2500 | INTRODUCTION TO APPLIED STATISTICS FOR IS&T | 3       |

## Requirements

| Code  | Title                                       | Credits   |
|---|---|-----------|
| <b>Foundation Courses</b>   |   | <b>24</b> |
| A maximum of 24 credit hours of graduate coursework can be transferred from courses taken in a graduate program prior to admission into the PhD program. These must be approved by the doctoral program committee and included on the plan of study. BMI 8100, Introduction to Biomedical Informatics or equivalent must be included in the 24 hours. |   |           |
| <b>Required Each Semester</b>   |   |           |
| BMI 8000  | ADVANCES IN BIOMEDICAL INFORMATICS          |           |
| <b>Research Requirement</b>   |   | <b>12</b> |
| ISQA 9010   | FOUNDATIONS OF INFORMATION SYSTEMS RESEARCH |           |
| Select 9 hours from the list below.   |   |           |
| BMI 8020  | ADVANCED COURSE IN BIOINFORMATICS           |           |
| BMI 8070  | HEALTH INFORMATICS RESEARCH METHODS         |           |
| CIST 9080   | RESEARCH DIRECTIONS IN I.T.                 |           |
| ISQA 8156   | ADVANCED STATISTICAL METHODS FOR IS&T       |           |
| Any doctoral level qualitative research method course approved by the Doctoral Program Committee  |   |           |
| <b>Major Field of Study</b>   |   | <b>18</b> |
| Select one of the following:  |   |           |
| Bioinformatics Track  |   |           |
| Health Informatics Track  |   |           |
| <b>Cognate Field</b>  |   | <b>9</b>  |
| Graduate courses (8000 or higher) in the areas of biology, ISQA, information assurance, neuroscience, public health, computer science, and pathology are determined with faculty advisement.  |   |           |
| <b>Colloquia</b>  |   | <b>3</b>  |
| CIST 9040   | COLLOQUIUM ON IT RESEARCH                   |           |
| CIST 9050   | COLLOQUIUM ON IT TEACHING                   |           |
| CIST 9060   | COLLOQUIUM ON IT PROFESSION AND ETHICS      |           |
| <b>Exit Requirement</b>   |   | <b>24</b> |
| BMI 9990  | DISSERTATION                                |           |
| <b>Total Credits</b>  |   | <b>90</b> |

## Track Options

(18 hours from either bioinformatics or health informatics)

At least 3 courses (9 credits) must be 9000-level BMI courses. The remaining courses can include at least one 8000-level graduate-only course and up to six hours of 8xx6 courses.

### Bioinformatics Track

| Code                                | Title  | Credits |
|-------------------------------------|--|---------|
| Select 18 hours from the following: |  |         |
| BMI 8080                            | SEMINAR IN BIOMEDICAL INFORMATICS            |         |
| BMI 8300                            | PUBLIC HEALTH GENOMICS                       |         |
| BMI 8400                            | LINEAR ALGEBRA FOR ADVANCED COMPUTING AND AI |         |
| BMI 8850                            | BIOMEDICINE FOR THE NONMEDICAL PROFESSIONAL  |         |

|                      |  |           |
|----------------------|--|-----------|
| BMI 8860             | SPECIAL TOPICS IN BIOMEDICAL INFORMATICS                             |           |
| BMI 8866             | BIOINFORMATICS ALGORITHMS  |           |
| BMI 8896             | COMPUTERIZED GENETIC SEQUENCE ANALYSIS                               |           |
| BMI 9900             | ADVANCED RESEARCH IN BIOMEDICAL INFORMATICS                          |           |
| BMI 9980             | INDEPENDENT RESEARCH IN BIOMEDICAL INFORMATICS                       |           |
| CSCI/MATH 8156       | GRAPH THEORY & APPLICATIONS  |           |
| CSCI 8456            | PRINCIPLES OF ARTIFICIAL INTELLIGENCE                                |           |
| CSCI 8876            | DATA MANAGEMENT AND KNOWLEDGE DISCOVERY IN COMPUTING AND INFORMATICS |           |
| CIST 9900            | SPECIAL TOPICS IN INFORMATION TECHNOLOGY                             |           |
| ISQA 8410            | DATA MANAGEMENT  |           |
| ISQA 8460            | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD                     |           |
| ISQA 8700            | DATA MINING: THEORY AND PRACTICE                                     |           |
| ISQA 8750            | STORYTELLING WITH DATA   |           |
| ISQA 9020            | TECHNICAL AND PROCESS ISSUES IN INFORMATION SYSTEMS RESEARCH         |           |
| ISQA 9030            | BEHAVIORAL AND ORGANIZATIONAL ISSUES IN INFORMATION SYSTEMS          |           |
| ISQA 9120            | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS                             |           |
| ISQA 9130            | APPLIED MULTIVARIATE ANALYSIS  |           |
| <b>Total Credits</b> |  | <b>18</b> |

### Health Informatics Track

| Code                                | Title   | Credits |
|-------------------------------------|---|---------|
| Select 18 hours from the following: |   |         |
| BMI 8080                            | SEMINAR IN BIOMEDICAL INFORMATICS                   |         |
| BMI 8086                            | SPECIAL TOPICS: HEALTH INFORMATICS RESEARCH METHODS |         |
| BMI 8300                            | PUBLIC HEALTH GENOMICS                              |         |
| BMI 8400                            | LINEAR ALGEBRA FOR ADVANCED COMPUTING AND AI        |         |
| BMI 8850                            | BIOMEDICINE FOR THE NONMEDICAL PROFESSIONAL         |         |
| BMI 9980                            | INDEPENDENT RESEARCH IN BIOMEDICAL INFORMATICS      |         |
| CIST 9900                           | SPECIAL TOPICS IN INFORMATION TECHNOLOGY            |         |
| ISQA 8060                           | RESEARCH IN MIS                                     |         |
| ISQA 8106                           | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION   |         |
| ISQA 8196                           | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY   |         |
| ISQA 8220                           | ADVANCED SYSTEMS ANALYSIS AND DESIGN                |         |
| ISQA 8410                           | DATA MANAGEMENT                                     |         |
| ISQA 8460                           | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD    |         |
| ISQA 8700                           | DATA MINING: THEORY AND PRACTICE                    |         |
| ISQA 8736                           | DECISION SUPPORT SYSTEMS                            |         |
| ISQA 8750                           | STORYTELLING WITH DATA                              |         |



|           |  |
|-----------|--|
| ISQA 8810 | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS                  |
| ISQA 9020 | TECHNICAL AND PROCESS ISSUES IN INFORMATION SYSTEMS RESEARCH |
| ISQA 9030 | BEHAVIORAL AND ORGANIZATIONAL ISSUES IN INFORMATION SYSTEMS  |
| ISQA 9120 | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS                     |
| ISQA 9130 | APPLIED MULTIVARIATE ANALYSIS                                |

**Total Credits****18**

## Doctoral Program Supervisory Committee

The supervisory committee shall be established before a doctoral student begins the last 45 credit hours of their program of study. This committee will have responsibility for planning and supervision of the student's doctoral program in coordination with the BMI graduate program committee. This includes developing comprehensive exam, defending the the doctoral dissertation proposal, approving the completed dissertation, and conducting the final oral examination. Students should review the BMI Doctoral Handbook for more information on requirements for selecting the supervisory committee members.

The student's dissertation advisor in consultation with the student will nominate the individuals to serve on the supervisory committee. The responsibilities, procedures, and actions of the supervisory committee are governed by the rules and bylaws of the Graduate College as outlined in the UNO Graduate catalog.

Within three weeks of its appointment, the supervisory committee will meet to designate and subsequently submit to the Office of Graduate Studies a complete program of studies conforming to the requirements for the degree. At least half of the total hours for the degree must be completed at the University of Nebraska after the filing of the program of study is filed. Any subsequent changes in the program or in the dissertation topic must be approved by the supervisory committee and recommended to the dean for Graduate Studies.

## Academic Requirements

Up to 36 credit hours of the coursework in the preparatory and advanced studies of the doctoral program may be accepted if from an accredited institution. Academic requirements for the doctorate degree include:

- Doctoral research seminars in one or more of the thematic areas of the program.
- Advanced courses (subject to dissertation advisor and graduate committee approvals) related to the student's expected field of study/research area.
- Courses in an associated field of study.
- Courses or colloquia relating to teaching, ethics and research.
- Participation in relevant graduate research seminars each semester.
- Successful passing of qualifying (comprehensive) examination.
- Presentation and defense of a dissertation research proposal on a topic in the approved major field of study/research area.
- Submission of the final dissertation manuscript in appropriate format after a successful dissertation defense.

## Requirements for Admission to Candidacy

Students will follow the general candidacy requirements in the UNO Graduate College. Admission to the graduate program does not necessarily imply admission to candidacy for a higher degree.

To be admitted to candidacy for the doctorate degree, a doctoral student must:

- Pass the written qualifying (comprehensive) examination.
- Successfully complete all coursework with satisfactory grades.
- Receive the approval of his/her dissertation proposal before the supervisory committee (oral examination).

After the student has met these requirements, the supervisory committee will recommend to the Office of Graduate Studies his/her admission to candidacy for the doctorate degree, the recommendation will note the dates of completing the comprehensive exam. Such a recommendation must be filed at least seven months prior to the final oral examination for defending his/her dissertation in the presence of his/her supervisory committee. Following admission to candidacy, the student must register during each academic year semester until he/she receives the doctorate degree. Students not in residence may register for a minimum of one semester hour credit in dissertation. Failure to register during each academic year semester will result in termination of candidacy. The term of candidacy is limited to three years.

## Dissertation and Final Examination

The dissertation should treat a subject in-depth from the candidate's major field of study/research area and as approved by his/her supervisory committee. The student's dissertation should show his/her technical mastery of the field and create novel material by advancing or modifying knowledge, creating new material, finding new results, drawing new conclusions, or interpreting old material in a new light.

If the dissertation proposal is approved, the student may conduct the dissertation research under the guidance of the dissertation advisor. The student is advised to consult with his/her supervisory committee until the committee accepts the dissertation. After the dissertation research is completed, the dissertation document and/or product must be presented to all the members of the supervisory committee in time to permit review and approval. Manuscripts must be turned in at least thirty days in advance of the final oral examination over the dissertation. The dissertation will be defended at an open meeting conducted by the student's supervisory committee.

## Grade Requirements

In addition to maintaining at least a 3.0 GPA for all course work, all doctoral students must obtain a grade of B or better in any of the required courses. Any student failing the grade requirements will be denied from taking the comprehensive examination and/or dismissed from the program.

## Exit Requirements

### Completing Graduation Requirements

After successfully defending his or her dissertation, the student should obtain signatures from all members of their supervisory committee on the Report on Completion of Degree form and submit the form along with a copy of their title and abstract page to the Office of Graduate Studies.

## Teaching Requirements

All doctoral students are required to teach at least one course while studying in the program.

## Residency Requirements

All full-time doctoral students must complete 27 hours within 18 months in order to meet the residency requirement of the University. Part-time students must complete 18 hours during the same period. The residency requirement ensures that progress toward the degree occurs within a reasonably compact time frame, enabling the doctoral student to integrate his or her course work with the dissertation.

## Progress Report

At the end of each semester, every doctoral student (full-time or part-time) must complete the Progress Report form and submit it to the chair of the doctoral program committee.

## Satisfactory Progress

A minimum of three years of full-time graduate study is normally required to complete a doctoral program. The maximum time allowed is eight years from the filing of the student's plan of study in the Office of Graduate Studies. Students not making satisfactory progress will be counseled out of the program.

## Leave of Absence

Under extraordinary circumstances, e.g., medical problems, a student may request a leave of absence from the program for a period of no more than one year. The request must be submitted to and approved by the student's supervisory committee and/or doctoral program committee. The request should include necessary modifications to the plan of study as a result of the leave. The leave of absence stops the clock for the total time required for the program and the time required to meet the residency requirement. If a student withdraws in mid-semester and is approved for a leave of absence, the clock starts at the beginning of the following semester. A student does not have to have met the residency requirement in order to apply for a leave of absence. If a student does not return to the program within the one year approved for the leave of absence, then the student must submit an application to re-apply to the program. Re-admission to the program is not guaranteed at that point. Please refer to the Graduate Catalog for the complete policy on a leave of absence.

# Business Administration

## Degree Programs Offered

- Business Administration, MBA (p. 1002)
- Business Administration, Executive MBA (p. 1012)
- Business Administration, MBA and Economics, MS (MBA/ECON) (p. 1018)
- Business Administration, MBA and Management Information Systems, MS (MBA/MIS) (p. 1013)
- Business Administration, MBA and UNMC PharmD (MBA/PharmD) (p. 1026))
- Business Administration, MBA and UNMC Doctor of Dental Surgery (MBA/DDS) (p. 1030)
- Business Administration, MBA and UNMC Doctor of Physical Therapy (p. 1028)
- Business Administration, MBA and UNMC Nursing (MBA/MSN) (p. 1031)
- Business Administration, MBA and UNMC Master of Perfusion Science (p. 1033)
- Business Administration, MBA and UNMC Master of Physician Assistant Studies (p. 1034)
- Business Administration, MBA and Public Health, MPH (MBA/MPH) (p. 1023))

## Certificates Offered

- Business for Bioscientists Certificate (p. 994)
- Business in Health Administration Certificate (p. 1036)
- Executive Business Certificate (p. 1037)
- Executive Business Analytics Certificate (p. 1038)
- Executive Business Leadership Certificate (p. 1038)
- Human Resources and Training Certificate (p. 1039)
- Logistics & Supply Chain Management Certificate (p. 1040)

# Business Administration, MBA

The mission of the MBA program at the University of Nebraska at Omaha (UNO) is to prepare students to contribute significantly to organizational productivity through learning experiences, emphasizing the application of sound and innovative business techniques. By acquiring the knowledge and abilities necessary to be a problem solver who is influential, innovative, and socially responsible, the graduate of the UNO MBA program will be an effective leader in enhancing organizational capabilities. The graduate will be well prepared for a responsible management position and will have an understanding of the technological and global business environment.

In addition to developing a strong background in the functional areas of business, the UNO MBA program focuses on developing essential leadership capabilities in its graduates.

## Program Related Information

### Program Contact

mba@unomaha.edu  
402.554.2448

**Program Website (<http://www.unomaha.edu/college-of-business-administration/mba/about-us/>)**

### Triple Bottom Line (TBL)

The TBL framework that has been incorporated into the curriculum provides a distinctive structure to the program that we can communicate to students, employers and others. TBL will help students see relationships between issues in a turbulent business environment. It compels students to understand the relationship between social, economic and environmental trends. A TBL framework for the MBA program will develop principled leaders who can effectively anticipate unfortunate surprises and uncover new opportunities. These leaders can position their firms to be a step ahead of competitors.

### FastTrack Program

The College of Business Administration MBA program has developed a FastTrack program for highly qualified and motivated students providing the opportunity to complete a BSBA or BMS degree and an MBA degree in an accelerated time frame. With FastTrack, students may count up to nine graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing a BSBA or BMS degree and desiring to pursue an MBA
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the

applicant will need to contact the Office of Graduate Studies for a fee waiver code.

- Admission to Fast Track does NOT guarantee admission to the graduate program.
- The admit term must be after the completion term of the undergraduate degree.
- Please note, BSAD 8110 will apply toward the completion of the BMS degree program requirements, but only as a foundation course for the MBA.

## Enrollment of Non-Degree Students

Following a review of their transcripts by the MBA advisor, non-degree students may be permitted to enroll in MBA foundation courses only, BSAD 8110 and ECON 1200 (3.0 junior/senior GPA required).

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1 (Limited availability for international applicants)
- Fall 2026: July 1 (June 1 for international applicants)

## Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume** (employment and educational history)
- **Unconditional Admission:** may be granted to an applicant whose record includes the following:
  - 2.85 undergraduate junior/senior GPA, or cumulative graduate GPA
  - Applicants qualifying for unconditional admission, based on the standards outlined above, but lacking some foundation courses, will be granted provisional status until all foundation courses are completed with grades of "B" (3.0/4.0) or above.
- **Provisional Admission:** Applicants who do not meet the conditions for unconditional admission may be considered for provisional admission status. These applicants will be notified that the CBA Graduate Program Council (CBA GPC) will evaluate the files of all applicants being considered for provisional admission. Candidates being considered for admission on this basis will receive notification from the UNO Office of Graduate Studies. If granted provisional admission, the student must earn minimum "B" (3.0/4.0) grades in each of the MBA courses completed in the first 12 hours of the program. Students not meeting this standard are subject to dismissal.
- **Foundation courses:** An applicant must have completed basic courses in the following areas, either as an undergraduate student or prior to enrolling in the first MBA course:

| Code  | Title  | Credits |
|---|--|---------|
| <b>Accounting</b>   |  |         |
| Select one of the following:  |  | 3-6     |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS                      | 3       |
| Or one year of Principles of Accounting at the undergraduate level: |  |         |
| ACCT 2010 & ACCT 2020   | PRINCIPLES OF ACCOUNTING I and PRINCIPLES OF ACCOUNTING II | 6       |

### Economics

|  |                     |     |
|--|---------------------|-----|
| Select one of the following:                             |                     | 3-6 |
| ECON 1200  | SURVEY OF ECONOMICS | 3   |
| Or Micro and Macro Economics at the undergraduate level: |                     |     |

|                       |   |   |
|-----------------------|---|---|
| ECON 2200 & ECON 2220 | PRINCIPLES OF ECONOMICS (MICRO) and PRINCIPLES OF ECONOMICS (MACRO) | 6 |
|-----------------------|---|---|

### Principles of Business Statistics

|                               |                                   |   |
|-------------------------------|-----------------------------------|---|
| Select one of the following:  |                                   |   |
| BSAD 2130                     | PRINCIPLES OF BUSINESS STATISTICS | 3 |
| Or one semester of statistics |                                   |   |

### Mathematics

|  |                              |   |
|--|------------------------------|---|
| College Algebra or higher with the following courses at UNO: |                              |   |
| MATH 1220  | COLLEGE ALGEBRA              | 3 |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT |   |
| or MATH 1320   | COLLEGE ALGEBRA              |   |

### English Composition I

|           |                                    |   |
|-----------|------------------------------------|---|
| ENGL 1150 | ENGLISH COMPOSITION I <sup>1</sup> | 3 |
|-----------|------------------------------------|---|

<sup>1</sup> ENGL 1150 is required as a foundation course for all students admitted to the MBA program who are required to complete the TOEFL/IELTS. The English composition requirement must be satisfied within the first two semesters of a student's program.

- Courses successfully completed with a grade of A, B, or C (2.0 on 4.0 scale) in the applicant's undergraduate program are considered as sufficient preparation. Otherwise, the applicant must complete foundation requirements prior to enrolling in the first MBA course with a minimum B (3.0 on 4.0 scale) grade. Foundation courses, including BSAD 8110 and ECON 1200, may not be used on a plan of study.

## Degree Requirements

### Required Courses (22 hours)

| Code      | Title  | Credits |
|-----------|--|---------|
| BSAD 8000 | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2       |
| BSAD 8040 | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION | 2       |
| BSAD 8060 | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP <sup>1</sup>                 | 2       |
| BSAD 8150 | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2       |
| BSAD 8210 | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2       |
| BSAD 8250 | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2       |
| BSAD 8420 | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2       |
| BSAD 8630 | FINANCE: UNDERSTANDING CAPITAL AND CASH <sup>2</sup>                   | 2       |
| BSAD 8700 | BUSINESS ANALYTICS: MAKING SENSE OF DATA                               | 2       |
| BSAD 8720 | STRATEGIC FINANCIAL MANAGEMENT <sup>3</sup>                            | 2       |

|                      |  |           |
|----------------------|--|-----------|
| BSAD 8830            | STRATEGY: DEVELOPING SUSTAINABLE<br>COMPETITIVE ADVANTAGE <sup>4</sup> | 2         |
| <b>Total Credits</b> |  | <b>22</b> |

<sup>1</sup> BSAD 8060 This is the first graduate-level course MBA students have to complete.

<sup>2</sup> BSAD 8630 (prereq: completion of BSAD 8150 and BSAD 8210)

<sup>3</sup> BSAD 8720 (prereq: completion of BSAD 8630)

<sup>4</sup> BSAD 8830 (prereq: completion of BSAD 8150 and BSAD 8210)

## Project Capstone Course (2 hours)

**BSAD 8800 - MBA Project-Focused Capstone.** As the project-focused capstone course for the Master of Business Administration (MBA) degree, this course will focus on students completing a service-learning consulting project for a non-profit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the Capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class. Not open to non-degree graduate students.

**ECON 8330 - Data Analysis from Scratch.** This course may be substituted for BSAD 8800 as the Capstone requirement for MBA students. Students in the course will work on a service-learning consulting project, specifically focused on a client data project. The consulting project will focus on the application of knowledge and skills learned in the MBA program and the Business Analytics concentration. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite(s)/Corequisite(s):** A multivariate or regression analysis course such as ECON 8300 (<https://catalog.unomaha.edu/search/?P=ECON%208300>), ISQA 9130 (<https://catalog.unomaha.edu/search/?P=ISQA%209130>) or STAT 8436 (<https://catalog.unomaha.edu/search/?P=STAT%208436>), and a programming class such as ECON 8320 (<https://catalog.unomaha.edu/search/?P=ECON%208320>) or equivalent programming experience; or instructor approval. Students also must successfully complete BSAD 8630 (<https://catalog.unomaha.edu/search/?P=BSAD%208630>), BSAD 8420 (<https://catalog.unomaha.edu/search/?P=BSAD%208420>), and BSAD 8830 (<https://catalog.unomaha.edu/search/?P=BSAD%208830>) before taking this course for the Capstone requirement.

Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Not open to non-degree graduate students.

## Directed Elective Requirement

For students who have earned an undergraduate or graduate degree in accounting, economics, management, management information systems, or marketing, the core course(s) corresponding to the student's previously earned degree(s) will be waived. To satisfy degree requirements, the student must complete a directed elective in the waived field as indicated. For students who have earned an undergraduate or graduate degree in finance, the core course(s) corresponding to the student's previously earned degree may be waived upon request. Students with more than one core course waiver will be required to take an additional 1-credit hour seminar or 3-credit hour elective to fulfill degree requirements.

### Accounting Directed Electives

| Code      | Title                            | Credits |
|-----------|----------------------------------|---------|
| ACCT 8016 | ADVANCED FINANCIAL ACCOUNTING    | 3       |
| ACCT 8046 | ADVANCED FEDERAL INCOME TAXATION | 3       |
| ACCT 8050 | FINANCIAL STATEMENT ANALYSIS     | 3       |

|           |  |   |
|-----------|--|---|
| ACCT 8066 | ADVANCED MANAGERIAL ACCOUNTING                 | 3 |
| ACCT 8076 | GOVERNMENTAL/NONPROFIT ACCOUNTING AND AUDITING | 3 |
| ACCT 8080 | CURRENT TECHNOLOGY USE IN ACCOUNTING           | 3 |
| ACCT 8090 | INFORMATION SYSTEMS AUDITING                   | 3 |
| ACCT 8210 | FINANCIAL ACCOUNTING THEORY                    | 3 |
| ACCT 8220 | GRADUATE TOPICS IN INCOME TAXATION             | 3 |
| ACCT 8230 | MANAGEMENT ACCOUNTING ISSUES                   | 3 |
| ACCT 8250 | SEMINAR IN ACCOUNTING                          | 3 |
| ACCT 8260 | FEDERAL TAX RESEARCH AND PLANNING              | 3 |
| ACCT 8280 | SEMINAR IN ACCOUNTING INFORMATION SYSTEMS      | 3 |
| ACCT 8290 | ADVANCED FINANCIAL AUDITING                    | 3 |

### Economics Directed Electives

| Code                    | Title   | Credits |
|-------------------------|---|---------|
| ECON 8010               | SEMINAR IN PUBLIC FINANCE                           | 3       |
| ECON 8080               | MONEY AND FINANCIAL INSTITUTIONS                    | 3       |
| ECON 8200               | SEMINAR IN MICRO ECONOMIC THEORY                    | 3       |
| ECON 8216               | INDUSTRIAL ORGANIZATION                             | 3       |
| ECON 8220               | SEMINAR IN MACRO THEORY                             | 3       |
| ECON 8230               | BUSINESS CONDITIONS ANALYSIS                        | 3       |
| ECON 8290               | RESEARCH METHODS IN ECONOMICS AND BUSINESS          | 3       |
| ECON 8300               | ECONOMETRICS  | 3       |
| ECON 8306               | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS | 3       |
| ECON 8310/<br>BSAD 8080 | BUSINESS FORECASTING                                | 3       |
| ECON 8316               | BUSINESS INTELLIGENCE AND REPORTING                 | 3       |
| ECON 8320               | TOOLS FOR DATA ANALYSIS                             | 3       |
| ECON 8326               | NATURAL RESOURCE ECONOMICS                          | 3       |
| ECON 8330               | DATA ANALYSIS FROM SCRATCH                          | 3       |
| ECON 8336               | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY       | 3       |
| ECON 8346               | ECONOMICS OF TECHNOLOGY                             | 3       |
| ECON 8576               | ECONOMIC CONDITIONS ANALYSIS                        | 3       |
| ECON 8616               | INTERNATIONAL TRADE                                 | 3       |
| ECON 8666               | INTERNATIONAL ECONOMIC DEVELOPMENT                  | 3       |
| ECON/BSAD 8736          | ECONOMICS OF ENTREPRENEURSHIP                       | 3       |
| ECON 8856               | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT         | 3       |

### Finance Directed Electives

| Code      | Title  | Credits |
|-----------|--|---------|
| BSAD 8516 | SECURITY ANALYSIS & INVESTING                | 3       |
| BSAD 8520 | SEMINAR INVESTMENT MANAGEMENT                | 3       |
| BSAD 8530 | BANK & FINANCIAL MARKETS                     | 3       |
| BSAD 8540 | MULTINATIONAL FINANCIAL MANAGEMENT           | 3       |
| BSAD 8550 | SEMINAR IN FINANCE                           | 3       |
| BSAD 8576 | INVESTMENT MANAGEMENT FOR FINANCIAL ANALYSTS | 3       |

|           |   |   |
|-----------|---|---|
| BSAD 8596 | INSURANCE PLANNING                          | 3 |
| BSAD 8600 | REAL ESTATE FINANCE THEORY AND APPLICATIONS | 3 |
| BSAD 8606 | FINANCIAL RISK MANAGEMENT                   | 3 |
| BSAD 8610 | REAL ESTATE APPRAISAL                       | 3 |
| BSAD 8616 | REAL ESTATE INVESTMENTS                     | 3 |
| HSRA 872  | Health Care Finance                         | 3 |

### Information Systems Directed Electives

| Code           | Title   | Credits |
|----------------|---|---------|
| ISQA 8016      | BUSINESS INTELLIGENCE                             | 3       |
| ISQA 8106      | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION | 3       |
| ISQA 8156      | ADVANCED STATISTICAL METHODS FOR IS&T             | 3       |
| ISQA 8180      | ELECTRONIC COMMERCE                               | 3       |
| ISQA 8196      | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY | 3       |
| ISQA 8206      | INFORMATION AND DATA QUALITY MANAGEMENT           | 3       |
| ISQA 8210      | MANAGEMENT OF SOFTWARE DEVELOPMENT                | 3       |
| ISQA 8220      | ADVANCED SYSTEMS ANALYSIS AND DESIGN              | 3       |
| ISQA 8306      | DATABASE ADMINISTRATION                           | 3       |
| ISQA 8310      | IT INFRASTRUCTURE & CLOUD COMPUTING               | 3       |
| ISQA 8340      | APPLIED REGRESSION ANALYSIS                       | 3       |
| ISQA 8380      | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION   | 3       |
| ISQA 8410      | DATA MANAGEMENT                                   | 3       |
| ISQA 8420      | MANAGING THE I.S. FUNCTION                        | 3       |
| ISQA 8525      | GRAPHICAL USER INTERFACE DESIGN                   | 3       |
| ISQA 8546      | COMPUTER SECURITY MANAGEMENT                      | 3       |
| ISQA 8560      | INFORMATION WARFARE AND SECURITY                  | 3       |
| ISQA/CYBR 8570 | INFORMATION SECURITY POLICY AND ETHICS            | 3       |
| ISQA 8580      | SECURITY RISK MANAGEMENT AND ASSESSMENT           | 3       |
| ISQA 8700      | DATA MINING: THEORY AND PRACTICE                  | 3       |
| ISQA 8736      | DECISION SUPPORT SYSTEMS                          | 3       |
| ISQA 8810      | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS       | 3       |
| ISQA 8820      | PROJECT RISK MANAGEMENT                           | 3       |
| ISQA 9120      | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS          | 3       |

### Management Directed Electives

| Code      | Title                                      | Credits |
|-----------|--|---------|
| BSAD 8096 | MANAGING COLLABORATIVE ENGAGEMENT          | 3       |
| BSAD 8136 | HUMAN RESOURCE MANAGEMENT                  | 3       |
| BSAD 8146 | TOTAL REWARDS                              | 3       |
| BSAD 8156 | TALENT DEVELOPMENT                         | 3       |
| BSAD 8166 | STAFFING THE ORGANIZATION                  | 3       |
| BSAD 8176 | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT | 3       |
| BSAD 8300 | ORGANIZATION THEORY & DESIGN               | 3       |
| BSAD 8326 | SALES MANAGEMENT                           | 3       |

|           |  |   |
|-----------|--|---|
| BSAD 8336 | PROJECT MANAGEMENT                                   | 3 |
| BSAD 8340 | INTERNATIONAL BUSINESS STUDY ABROAD                  | 3 |
| BSAD 8356 | GLOBAL SOURCING AND INNOVATION                       | 3 |
| BSAD 8376 | SUPPLY CHAIN ANALYTICS                               | 3 |
| BSAD 8386 | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT       | 3 |
| BSAD 8456 | MANAGERIAL NEGOTIATION STRATEGIES                    | 3 |
| BSAD 8710 | SUPPLY CHAIN MANAGEMENT                              | 3 |
| BSAD 8726 | INNOVATION VENTURES                                  | 3 |
| CACT 8520 | POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP    | 3 |
| CMST 8186 | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS | 3 |
| PSYC 8636 | ORGANIZATIONAL PSYCHOLOGY                            | 3 |
| PSYC 8646 | PERSONNEL PSYCHOLOGY                                 | 3 |
| PSYC 9620 | TRAINING AND DEVELOPMENT                             | 3 |
| PSYC 9630 | LEADERSHIP THEORIES AND RESEARCH                     | 3 |
| PSYC 9660 | CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL      | 3 |
| CPH 840   | Health Administration Leadership                     | 3 |

### Marketing Directed Electives

| Code      | Title  | Credits |
|-----------|--|---------|
| BSAD 8206 | CONSULTATIVE SELLING PRINCIPLES                | 3       |
| BSAD 8216 | SELLING FINANCIAL SERVICES                     | 3       |
| BSAD 8326 | SALES MANAGEMENT                               | 3       |
| BSAD 8345 | CONSUMER BEHAVIOR                              | 3       |
| BSAD 8386 | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT | 3       |
| BSAD 8426 | BUSINESS DEMOGRAPHICS                          | 3       |
| BSAD 8430 | STRATEGIC BRAND MANAGEMENT                     | 3       |
| BSAD 8435 | MARKETING INNOVATION                           | 3       |
| BSAD 8450 | SEMINAR IN MARKETING                           | 3       |
| BSAD 8710 | SUPPLY CHAIN MANAGEMENT                        | 3       |
| BSAD 8726 | INNOVATION VENTURES                            | 3       |
| BSAD 8766 | SELLING IN AN ENTREPRENEURIAL CONTEXT          | 3       |

### MBA Electives (9 hours)

Electives (8000-level) may be chosen from MBA, master's level Accounting and Economics, as well as courses in other departments as listed below.

A directed elective, if required, is part of the nine (9) hours of electives required for degree completion.

A maximum of nine (9) hours of dual-level (graduate/undergraduate) electives may be included in the plan of study for an MBA degree.

MBA policy limits the number of Special Topics/Special Studies (BSAD 8910) electives to a maximum of nine hours, which may be applied to the MBA program as electives.

Not all elective courses are offered each semester.

### Accounting Electives

| Code      | Title                            | Credits |
|-----------|----------------------------------|---------|
| ACCT 8016 | ADVANCED FINANCIAL ACCOUNTING    | 3       |
| ACCT 8046 | ADVANCED FEDERAL INCOME TAXATION | 3       |
| ACCT 8050 | FINANCIAL STATEMENT ANALYSIS     | 3       |



|           |  |   |
|-----------|--|---|
| ACCT 8066 | ADVANCED MANAGERIAL ACCOUNTING                 | 3 |
| ACCT 8076 | GOVERNMENTAL/NONPROFIT ACCOUNTING AND AUDITING | 3 |
| ACCT 8080 | CURRENT TECHNOLOGY USE IN ACCOUNTING           | 3 |
| ACCT 8090 | INFORMATION SYSTEMS AUDITING                   | 3 |
| ACCT 8210 | FINANCIAL ACCOUNTING THEORY                    | 3 |
| ACCT 8220 | GRADUATE TOPICS IN INCOME TAXATION             | 3 |
| ACCT 8230 | MANAGEMENT ACCOUNTING ISSUES                   | 3 |
| ACCT 8250 | SEMINAR IN ACCOUNTING                          | 3 |
| ACCT 8260 | FEDERAL TAX RESEARCH AND PLANNING              | 3 |
| ACCT 8280 | SEMINAR IN ACCOUNTING INFORMATION SYSTEMS      | 3 |
| ACCT 8290 | ADVANCED FINANCIAL AUDITING                    | 3 |

### Business Administration Electives

| Code                    | Title  | Credits |
|-------------------------|--|---------|
| BSAD 8026               | RESEARCH METHODS IN ECONOMICS AND BUSINESS     | 3       |
| BSAD 8080/<br>ECON 8310 | BUSINESS FORECASTING                           | 3       |
| BSAD 8096               | MANAGING COLLABORATIVE ENGAGEMENT              | 3       |
| BSAD 8136               | HUMAN RESOURCE MANAGEMENT                      | 3       |
| BSAD 8146               | TOTAL REWARDS                                  | 3       |
| BSAD 8156               | TALENT DEVELOPMENT                             | 3       |
| BSAD 8166               | STAFFING THE ORGANIZATION                      | 3       |
| BSAD 8176               | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT     | 3       |
| BSAD 8206               | CONSULTATIVE SELLING PRINCIPLES                | 3       |
| BSAD 8216               | SELLING FINANCIAL SERVICES                     | 3       |
| BSAD 8226               | GLOBAL STRATEGIC ACCOUNT MANAGEMENT            | 3       |
| BSAD 8300               | ORGANIZATION THEORY & DESIGN                   | 3       |
| BSAD 8326               | SALES MANAGEMENT                               | 3       |
| BSAD 8336               | PROJECT MANAGEMENT                             | 3       |
| BSAD 8340               | INTERNATIONAL BUSINESS STUDY ABROAD            | 3       |
| BSAD 8356               | GLOBAL SOURCING AND INNOVATION                 | 3       |
| BSAD 8376               | SUPPLY CHAIN ANALYTICS                         | 3       |
| BSAD 8386               | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT | 3       |
| BSAD 8426               | BUSINESS DEMOGRAPHICS                          | 3       |
| BSAD 8430               | STRATEGIC BRAND MANAGEMENT                     | 3       |
| BSAD 8450               | SEMINAR IN MARKETING                           | 3       |
| BSAD 8456               | MANAGERIAL NEGOTIATION STRATEGIES              | 3       |
| BSAD 8516               | SECURITY ANALYSIS & INVESTING                  | 3       |
| BSAD 8520               | SEMINAR INVESTMENT MANAGEMENT                  | 3       |
| BSAD 8530               | BANK & FINANCIAL MARKETS                       | 3       |
| BSAD 8540               | MULTINATIONAL FINANCIAL MANAGEMENT             | 3       |
| BSAD 8550               | SEMINAR IN FINANCE                             | 3       |
| BSAD 8576               | INVESTMENT MANAGEMENT FOR FINANCIAL ANALYSTS   | 3       |
| BSAD 8596               | INSURANCE PLANNING                             | 3       |

|                |   |     |
|----------------|---|-----|
| BSAD 8600      | REAL ESTATE FINANCE THEORY AND APPLICATIONS | 3   |
| BSAD 8606      | FINANCIAL RISK MANAGEMENT                   | 3   |
| BSAD 8610      | REAL ESTATE APPRAISAL                       | 3   |
| BSAD 8710      | SUPPLY CHAIN MANAGEMENT                     | 3   |
| BSAD/ECON 8736 | ECONOMICS OF ENTREPRENEURSHIP               | 3   |
| BSAD 8766      | SELLING IN AN ENTREPRENEURIAL CONTEXT       | 3   |
| BSAD 8900      | INDEPENDENT STUDY                           | 1-6 |
| BSAD 8910      | SPECIAL TOPICS IN BUSINESS                  | 3   |
| BSAD 8820      | CONTEMPORARY BUSINESS ISSUES                | 1   |

### Economics Electives

| Code                    | Title   | Credits |
|-------------------------|---|---------|
| ECON 8010               | SEMINAR IN PUBLIC FINANCE                           | 3       |
| ECON 8080               | MONEY AND FINANCIAL INSTITUTIONS                    | 3       |
| ECON 8200               | SEMINAR IN MICRO ECONOMIC THEORY                    | 3       |
| ECON 8210/<br>BSAD 8100 | APPLIED MANAGERIAL ECONOMICS                        | 3       |
| ECON 8216               | INDUSTRIAL ORGANIZATION                             | 3       |
| ECON 8220               | SEMINAR IN MACRO THEORY                             | 3       |
| ECON 8230               | BUSINESS CONDITIONS ANALYSIS                        | 3       |
| ECON 8290               | RESEARCH METHODS IN ECONOMICS AND BUSINESS          | 3       |
| ECON 8300               | ECONOMETRICS  | 3       |
| ECON 8306               | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS | 3       |
| ECON 8310/<br>BSAD 8080 | BUSINESS FORECASTING                                | 3       |
| ECON 8316               | BUSINESS INTELLIGENCE AND REPORTING                 | 3       |
| ECON 8336               | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY       | 3       |
| ECON 8320               | TOOLS FOR DATA ANALYSIS                             | 3       |
| ECON 8326               | NATURAL RESOURCE ECONOMICS                          | 3       |
| ECON 8330               | DATA ANALYSIS FROM SCRATCH                          | 3       |
| ECON 8346               | ECONOMICS OF TECHNOLOGY                             | 3       |
| ECON 8576               | ECONOMIC CONDITIONS ANALYSIS                        | 3       |
| ECON 8616               | INTERNATIONAL TRADE                                 | 3       |
| ECON 8666               | INTERNATIONAL ECONOMIC DEVELOPMENT                  | 3       |
| ECON/BSAD 8736          | ECONOMICS OF ENTREPRENEURSHIP                       | 3       |
| ECON 8856               | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT         | 3       |
| ECON 8910               | SPECIAL STUDIES IN ECONOMICS                        | 3       |

### Biology Electives

| Code              | Title   | Credits |
|-------------------|---|---------|
| BIOL/PA/GEOG 8826 | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS | 3       |

### Communication Electives

| Code      | Title                                    | Credits |
|-----------|--|---------|
| COMM 9400 | SEMINAR IN COMMUNICATION & TECHNOLOGY    | 3       |
| CMST 8156 | ORGANIZATIONAL TRAINING AND DEVELOPMENT  | 3       |
| CMST 8166 | COMMUNICATION FOR INSTRUCTIONAL SETTINGS | 3       |

|           |  |   |
|-----------|--|---|
| CMST 8176 | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP          | 3 |
| CMST 8186 | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS | 3 |
| CMST 8196 | COMPUTER-MEDIATED COMMUNICATION                      | 3 |
| CMST 8516 | PERSUASION AND SOCIAL INFLUENCE                      | 3 |
| CMST 8536 | INTERCULTURAL COMMUNICATION-US                       | 3 |
| CMST 8576 | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE     | 3 |

### Computer Science Electives

| Code           | Title  | Credits |
|----------------|--|---------|
| CSCI/MATH 8520 | ADVANCED TOPICS IN OPERATIONS RESEARCH (Topic: Simulation Modeling)) | 3       |
| CSCI 8590      | FUNDAMENTALS OF DEEP LEARNING  | 3       |

### Critical and Creative Thinking Electives

| Code      | Title                                      | Credits |
|-----------|--|---------|
| CACT 8326 | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH | 3       |
| CACT 8530 | PERSONNEL PSYCHOLOGY AND LEADERSHIP        | 3       |

### Engineering Electives

| Code    | Title                       | Credits |
|---------|-----------------------------|---------|
| AE 8090 | SUSTAINABLE BUILDING DESIGN | 3       |

### Environmental Studies Electives

| Code      | Title  | Credits |
|-----------|--|---------|
| ENVN 8316 | OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY | 3       |

### Geography Electives

| Code           | Title                                   | Credits |
|----------------|---|---------|
| GEOG 8016      | CONSERVATION OF NATURAL RESOURCES       | 3       |
| GEOG 8130      | SEMINAR IN ECONOMIC GEOGRAPHY           | 3       |
| GEOG 8156      | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP  | 3       |
| GEOG 8166      | URBAN SUSTAINABILITY                    | 3       |
| GEOG 8556      | GEOGRAPHY OF THE WORLD ECONOMY          | 3       |
| GEOG/GEOL 8616 | ENVIRONMENTAL MONITORING AND ASSESSMENT | 3       |

### Gerontology Electives

| Code         | Title   | Credits |
|--------------|---|---------|
| GERO/PA 8516 | LONG-TERM CARE ADMINISTRATION                   | 3       |
| GERO 8726    | BABY BOOMERS AND THE 21ST CENTURY               | 3       |
| GERO 8756    | MID-LIFE, CAREER CHANGE, PRERETIREMENT PLANNING | 3       |

### Public Health and Human Behavior Electives

| Code      | Title                                 | Credits |
|-----------|---------------------------------------|---------|
| PHHB 8600 | HEALTH BEHAVIOR                       | 3       |
| PHHB 8950 | PUBLIC HEALTH LEADERSHIP AND ADVOCACY | 3       |

### Information Systems and Quantitative Analysis and IT Innovation Electives

| Code      | Title   | Credits |
|-----------|---|---------|
| ISQA 8016 | BUSINESS INTELLIGENCE                                       | 3       |
| ISQA 8086 | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS | 3       |
| ISQA 8106 | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION           | 3       |
| HCC 8210  | DESIGN SCIENCE AND THEORY DEVELOPMENT                       | 3       |
| HCC 8266  | USER EXPERIENCE DESIGN                                      | 3       |
| ISQA 8156 | ADVANCED STATISTICAL METHODS FOR IS&T                       | 3       |
| ISQA 8160 | APPLIED DISTRIBUTION FREE STATISTICS                        | 3       |
| ISQA 8176 | DIGITAL SUPPLY CHAIN & LOGISTICS                            | 3       |
| ISQA 8180 | ELECTRONIC COMMERCE   | 3       |
| ISQA 8196 | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY           | 3       |
| ISQA 8206 | INFORMATION AND DATA QUALITY MANAGEMENT                     | 3       |
| ISQA 8210 | MANAGEMENT OF SOFTWARE DEVELOPMENT                          | 3       |
| ISQA 8220 | ADVANCED SYSTEMS ANALYSIS AND DESIGN                        | 3       |
| ISQA 8306 | DATABASE ADMINISTRATION                                     | 3       |
| ISQA 8310 | IT INFRASTRUCTURE & CLOUD COMPUTING                         | 3       |
| ISQA 8340 | APPLIED REGRESSION ANALYSIS                                 | 3       |
| ISQA 8380 | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION             | 3       |
| ISQA 8410 | DATA MANAGEMENT   | 3       |
| ISQA 8420 | MANAGING THE I.S. FUNCTION                                  | 3       |
| ISQA 8460 | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD            | 3       |
| ISQA 8525 | GRAPHICAL USER INTERFACE DESIGN                             | 3       |
| ISQA 8546 | COMPUTER SECURITY MANAGEMENT                                | 3       |
| ISQA 8560 | INFORMATION WARFARE AND SECURITY                            | 3       |
| ISQA 8570 | INFORMATION SECURITY POLICY AND ETHICS                      | 3       |
| ISQA 8580 | SECURITY RISK MANAGEMENT AND ASSESSMENT                     | 3       |
| ISQA 8700 | DATA MINING: THEORY AND PRACTICE                            | 3       |
| ISQA 8736 | DECISION SUPPORT SYSTEMS                                    | 3       |
| ISQA 8810 | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS                 | 3       |
| ISQA 8820 | PROJECT RISK MANAGEMENT                                     | 3       |
| ISQA 9120 | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS                    | 3       |
| ISQA 9130 | APPLIED MULTIVARIATE ANALYSIS                               | 3       |

### Political Science Electives (select only one)

| Code                    | Title  | Credits |
|-------------------------|--|---------|
| PSCI 8220               | SEMINAR ON INTERNATIONAL LEADERSHIP AND STRATEGY | 3       |
| PSCI 8250               | SEMINAR IN INTERNATIONAL RELATIONS               | 3       |
| PSCI 8276               | GLOBAL ENVIRONMENTAL POLITICS                    | 3       |
| PSCI 8296/<br>CACT 8306 | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY       | 3       |

|           |  |   |
|-----------|--|---|
| PSCI 8500 | SEMINAR IN COMPARATIVE POLITICS                      | 3 |
| PSCI 8705 | GOVERNMENT AND POLITICS OF THE MIDDLE EAST           | 3 |
| PSCI 8716 | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION | 3 |
| PSCI 8926 | ADVANCED SPECIAL TOPICS IN POLITICAL SCIENCE         | 3 |

### Psychology Electives

| Code      | Title   | Credits |
|-----------|---|---------|
| PSYC 8316 | PSYCHOLOGICAL AND EDUCATIONAL TESTING           | 3       |
| PSYC 8636 | ORGANIZATIONAL PSYCHOLOGY                       | 3       |
| PSYC 8646 | PERSONNEL PSYCHOLOGY                            | 3       |
| PSYC 8656 | CREATIVITY AND INNOVATION IN ORGANIZATIONS      | 3       |
| PSYC 9320 | SEMINAR IN PROGRAM EVALUATION                   | 3       |
| PSYC 9620 | TRAINING AND DEVELOPMENT                        | 3       |
| PSYC 9630 | LEADERSHIP THEORIES AND RESEARCH                | 3       |
| PSYC 9660 | CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL | 3       |

### Public Administration Electives

| Code    | Title              | Credits |
|---------|--------------------|---------|
| PA 8740 | HEALTH CARE POLICY | 3       |

### Sociology Electives

| Code     | Title                                  | Credits |
|----------|--|---------|
| SOC 8556 | ORGANIZATIONAL DIVERSITY AND INCLUSION | 3       |

### Statistics Electives

| Code      | Title   | Credits |
|-----------|---|---------|
| STAT 8426 | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION | 3       |

### UNMC Electives

| Code             | Title  | Credits |
|------------------|--|---------|
| ENV 840          | Climate Change, Sustainability & Public Health     | 3       |
| ENV 892          | Public Health, Environment & Society               | 3       |
| HSRA 810         | The U.S. Health Care System: An Overview           | 3       |
| HSRA 830/CPH 580 | Health Care Organization Theory and Behavior       | 3       |
| CPH 502          | Health Services Administration                     | 3       |
| CPH 570          | Health Administration Law                          | 3       |
| CPH 562          | Human Resources Management in Health Organizations | 3       |
| CPH 569          | Health Administration Leadership                   | 3       |
| HSRA 872         | Health Care Finance                                | 3       |
| HSRA 874         | Health Policy                                      | 3       |
| HSRA             | Health Economics                                   | 3       |

### Transfer of Graduate Credit

Students who have completed graduate courses at other approved AACSB (Association to Advance Collegiate Schools of Business) graduate schools may request permission to transfer as many as nine (9) semester hours of credit, provided the courses are pertinent to the student's graduate program. Grades in courses for transfer credit must be equivalent to "B" (3.0/4.0) or higher. All work for transfer of credit must have been

taken within the ten-year period allowed for the master's in business administration degree. Petitions for the transfer of credit are submitted by the student to the MBA advisor who forwards the petition with a recommendation to the Dean for Graduate Studies for approval. Visit the AACSB website (<http://www.aacsb.edu>) for the listing of AACSB accredited institutions.

### MBA Exit Requirement

#### Comprehensive Examination

All students earning an MBA degree must complete a comprehensive examination or a comprehensive examination equivalent. The comprehensive examination requires the student to demonstrate the knowledge gained from the core courses and the ability to synthesize that knowledge in the analysis of questions involving more than one concept. Completion of the project focused capstone course (BSAD 8800) with a grade of "B" (3.0/4.0 scale) or better is equivalent to completion of the comprehensive examination. If a student transfers in credit for the non-comprehensive examination components of the project focused capstone course, then the student must pass a written comprehensive examination prepared by and graded by the graduate program council.

#### Thesis Option

MBA students may elect to complete a 6-hour thesis under the guidance of a supervisory committee. The student is responsible for compliance with all Graduate College and MBA graduate program council rules and procedures with respect to formation of a supervisory committee and completion of a thesis. The student shall submit to the supervisory committee a document including: 1) a proposed plan of study; 2) a description of the student's research topic; and 3) the student's research methodology. The student shall make an oral defense of the document to the supervisory committee. The supervisory committee's approval shall be in writing. A supervisory committee's approval should be obtained at least seven months before the intended graduation date. If a student elects to complete a thesis, then the supervisory committee of the thesis shall decide how the student will satisfy the comprehensive examination requirement and the business case requirement. The supervisory committee's written approval of the plan of study shall require either the student's completion of the project focused capstone course or a comprehensive examination (either written or oral) prepared by and graded by the supervisory committee.

### Other Requirements to Complete the Program

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

#### Total Credit Hours: 33

### Concentrations

The MBA Program offers concentrations in the areas listed below. A concentration shall include at least nine (9) credit hours.

With the prior, written approval of the College of Business Administration graduate program council and the dean for Graduate Studies, an independent research, special studies, or special topics graduate-level course from accounting, business administration or economics, when such course has as its principal focus issues relevant to business administration or the concentration, may be substituted.

### Business Analytics Concentration

| Code      | Title   | Credits |
|-----------|---|---------|
| ECON 8306 | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS | 3       |
| ECON 8300 | ECONOMETRICS <sup>1</sup>                           | 3       |
| ECON 8320 | TOOLS FOR DATA ANALYSIS                             | 3       |

|                      |   |           |
|----------------------|---|-----------|
| ECON 8310            | BUSINESS FORECASTING                    | 3         |
| ECON 8330            | DATA ANALYSIS FROM SCRATCH <sup>2</sup> | 3         |
| <b>Total Credits</b> |   | <b>15</b> |

<sup>1</sup> Successful completion of ECON 8300 substitutes BSAD 8700.

<sup>2</sup> Successful completion of ECON 8330 substitutes BSAD 8800.

## Business Technology Concentration

| Code                                  | Title   | Credits  |
|---------------------------------------|---|----------|
| <b>Select three of the following:</b> |   | <b>9</b> |
| BSAD 8336                             | PROJECT MANAGEMENT                                |          |
| BSAD 8736                             | ECONOMICS OF ENTREPRENEURSHIP                     |          |
| CSCI 8590                             | FUNDAMENTALS OF DEEP LEARNING                     |          |
| ECON 8346                             | ECONOMICS OF TECHNOLOGY                           |          |
| ISQA 8016                             | BUSINESS INTELLIGENCE                             |          |
| ISQA 8106                             | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION |          |
| ISQA 8176                             | DIGITAL SUPPLY CHAIN & LOGISTICS                  |          |
| ISQA 8180                             | ELECTRONIC COMMERCE                               |          |
| ISQA 8196                             | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY |          |
| ISQA 8206                             | INFORMATION AND DATA QUALITY MANAGEMENT           |          |
| ISQA 8210                             | MANAGEMENT OF SOFTWARE DEVELOPMENT                |          |
| ISQA 8220                             | ADVANCED SYSTEMS ANALYSIS AND DESIGN              |          |
| ISQA 8306                             | DATABASE ADMINISTRATION                           |          |
| ISQA 8310                             | IT INFRASTRUCTURE & CLOUD COMPUTING               |          |
| ISQA 8410                             | DATA MANAGEMENT                                   |          |
| ISQA 8420                             | MANAGING THE I.S. FUNCTION                        |          |
| ISQA 8525                             | GRAPHICAL USER INTERFACE DESIGN                   |          |
| ISQA 8546                             | COMPUTER SECURITY MANAGEMENT                      |          |
| ISQA/CYBR 8570                        | INFORMATION SECURITY POLICY AND ETHICS            |          |
| ISQA 8580                             | SECURITY RISK MANAGEMENT AND ASSESSMENT           |          |
| ISQA 8700                             | DATA MINING: THEORY AND PRACTICE                  |          |
| ISQA 8736                             | DECISION SUPPORT SYSTEMS                          |          |
| ISQA 8810                             | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS       |          |
| ISQA 8820                             | PROJECT RISK MANAGEMENT                           |          |
| <b>Total Credits:</b>                 |   | <b>9</b> |

## Certified Financial Planner (CFP) Concentration

| Code  | Title                                   | Credits  |
|---|---|----------|
| <b>Required Course</b>                      |   |          |
| BSAD 8836                                   | FUNDAMENTALS OF FINANCIAL PLANNING      | 3        |
| <b>Select six hours from the following:</b> |   | <b>6</b> |
| BSAD 8516                                   | SECURITY ANALYSIS & INVESTING           |          |
| BSAD 8596                                   | INSURANCE PLANNING                      |          |
| BSAD 8846                                   | RETIREMENT PLANNING & EMPLOYEE BENEFITS |          |

|                      |   |          |
|----------------------|---|----------|
| BSAD 8866            | APPLICATIONS IN PERSONAL FINANCIAL PLANNING |          |
| <b>Total Credits</b> |   | <b>9</b> |

## Collaboration Science Concentration

| Code                                | Title                                      | Credits  |
|-------------------------------------|--|----------|
| <b>Required</b>                     |  | <b>3</b> |
| BSAD 8096                           | MANAGING COLLABORATIVE ENGAGEMENT          |          |
| <b>Electives</b>                    |  | <b>6</b> |
| <b>Select two of the following:</b> |  |          |
| BSAD 8300                           | ORGANIZATION THEORY & DESIGN               |          |
| BSAD 8336                           | PROJECT MANAGEMENT                         |          |
| BSAD 8456                           | MANAGERIAL NEGOTIATION STRATEGIES          |          |
| CMST 8196                           | COMPUTER-MEDIATED COMMUNICATION            |          |
| PSYC 8656                           | CREATIVITY AND INNOVATION IN ORGANIZATIONS |          |
| PSYC 9680                           | GROUPS AND TEAMS                           |          |
| <b>Total Credits</b>                |  | <b>9</b> |

## Entrepreneurship Concentration

| Code  | Title  | Credits  |
|---|--|----------|
| <b>Required</b>                             |  |          |
| BSAD 8256                                   | NEW VENTURE FORMATION                                | 3        |
| <b>Select six hours from the following:</b> |  | <b>6</b> |
| BSAD 8435                                   | MARKETING INNOVATION                                 |          |
| BSAD 8696                                   | EMERGING TECHNOLOGY AND INNOVATION                   |          |
| BSAD 8726                                   | INNOVATION VENTURES                                  |          |
| BSAD 8766                                   | SELLING IN AN ENTREPRENEURIAL CONTEXT                |          |
| BSAD 8776                                   | INTRODUCTORY MAVERICK VENTURE FUND                   |          |
| BSAD 8786                                   | INTERMEDIATE MAVERICK VENTURE FUND                   |          |
| BSAD 8796                                   | ADVANCED MAVERICK VENTURE FUND                       |          |
| ENTR 8156                                   | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP               |          |
| ENTR 8716                                   | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION |          |
| <b>Total Credits</b>                        |  | <b>9</b> |

## Health Care Management Concentration

| Code                                  | Title                                  | Credits  |
|---------------------------------------|--|----------|
| <b>Select three of the following:</b> |  | <b>9</b> |
| BSAD 8066                             | HEALTHCARE ANALYTICS FOR BUSINESS      |          |
| GERO/PA 8516                          | LONG-TERM CARE ADMINISTRATION          |          |
| PHHB 8600                             | HEALTH BEHAVIOR                        |          |
| PHHB 8950                             | PUBLIC HEALTH LEADERSHIP AND ADVOCACY  |          |
| ISQA/CYBR 8570                        | INFORMATION SECURITY POLICY AND ETHICS |          |
| PA 8740                               | HEALTH CARE POLICY (HSRA 874)          |          |
| CPH 569                               | Health Administration Leadership       |          |
| CPH 570                               | Health Administration Law              |          |

|                      |                                |
|----------------------|--------------------------------|
| HSRA 873             | Health Services Administration |
| <b>Total Credits</b> | <b>9</b>                       |

## Human Resource Management Concentration

| Code                                  | Title                                      | Credits  |
|---------------------------------------|--|----------|
| <b>Select three of the following:</b> |  |          |
| BSAD 8136                             | HUMAN RESOURCE MANAGEMENT                  |          |
| BSAD 8146                             | TOTAL REWARDS                              |          |
| BSAD 8156                             | TALENT DEVELOPMENT                         |          |
| BSAD 8166                             | STAFFING THE ORGANIZATION                  |          |
| BSAD 8300                             | ORGANIZATION THEORY & DESIGN               |          |
| CMST 8156                             | ORGANIZATIONAL TRAINING AND DEVELOPMENT    |          |
| PSYC 8316                             | PSYCHOLOGICAL AND EDUCATIONAL TESTING      |          |
| PSYC 8636                             | ORGANIZATIONAL PSYCHOLOGY                  |          |
| PSYC 8646                             | PERSONNEL PSYCHOLOGY                       |          |
| PSYC 8656                             | CREATIVITY AND INNOVATION IN ORGANIZATIONS |          |
| PSYC 9630                             | LEADERSHIP THEORIES AND RESEARCH           |          |
| <b>Total Credits</b>                  |  | <b>9</b> |

## International Business Concentration

| Code  | Title  | Credits  |
|---|--|----------|
| Select three of the following with a minimum of one course from BSAD or ECON: |  |          |
| BSAD 8076   | INTERNATIONAL LOGISTICS MANAGEMENT               |          |
| BSAD 8336   | PROJECT MANAGEMENT                               |          |
| BSAD 8340   | INTERNATIONAL BUSINESS STUDY ABROAD              |          |
| BSAD 8356   | GLOBAL SOURCING AND INNOVATION                   |          |
| BSAD 8386   | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT   |          |
| BSAD 8540   | MULTINATIONAL FINANCIAL MANAGEMENT               |          |
| CMST 8536   | INTERCULTURAL COMMUNICATION-US                   |          |
| CMST 8576   | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE |          |
| ECON 8080   | MONEY AND FINANCIAL INSTITUTIONS                 |          |
| ECON 8616   | INTERNATIONAL TRADE                              |          |
| ECON 8666   | INTERNATIONAL ECONOMIC DEVELOPMENT               |          |
| ECON 8856   | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT      |          |
| GEOG 8556   | GEOGRAPHY OF THE WORLD ECONOMY                   |          |
| ISQA 8176   | DIGITAL SUPPLY CHAIN & LOGISTICS                 |          |
| No more than one PSCI course may be taken:                                    |  |          |
| PSCI 8250   | SEMINAR IN INTERNATIONAL RELATIONS               |          |
| PSCI 8296   | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY       |          |
| PSCI 8500   | SEMINAR IN COMPARATIVE POLITICS                  |          |
| PSCI 8705   | GOVERNMENT AND POLITICS OF THE MIDDLE EAST       |          |
| <b>Total Credits</b>  |  | <b>9</b> |

## Investment Science Concentration

| Code                                   | Title  | Credits  |
|--|--|----------|
| <b>Required</b>                        |  | <b>6</b> |
| BSAD 8516                              | SECURITY ANALYSIS & INVESTING  |          |
| BSAD 8540                              | MULTINATIONAL FINANCIAL MANAGEMENT   |          |
| Select three hours from the following: |  | 3        |
| BSAD 8776 & BSAD 8786 & BSAD 8796      | INTRODUCTORY MAVERICK VENTURE FUND and INTERMEDIATE MAVERICK VENTURE FUND and ADVANCED MAVERICK VENTURE FUND |          |
| ECON 8080                              | MONEY AND FINANCIAL INSTITUTIONS   |          |
| ECON 8210                              | APPLIED MANAGERIAL ECONOMICS   |          |
| ECON 8230                              | BUSINESS CONDITIONS ANALYSIS   |          |
| ECON 8300                              | ECONOMETRICS   |          |
| ECON 8310/BSAD 8080                    | BUSINESS FORECASTING   |          |
| ISQA 8340                              | APPLIED REGRESSION ANALYSIS  |          |
| <b>Total Credits</b>                   |  | <b>9</b> |

## Leadership Concentration

| Code                                  | Title  | Credits  |
|---------------------------------------|--|----------|
| <b>Select three of the following:</b> |  | <b>9</b> |
| BSAD 8096                             | MANAGING COLLABORATIVE ENGAGEMENT                    |          |
| BSAD 8236                             | GLOBAL BUSINESS MANAGEMENT                           |          |
| BSAD 8300                             | ORGANIZATION THEORY & DESIGN                         |          |
| BSAD 8336                             | PROJECT MANAGEMENT                                   |          |
| BSAD 8436                             | LEARNING TO LEAD                                     |          |
| BSAD 8456                             | MANAGERIAL NEGOTIATION STRATEGIES                    |          |
| COMM 8176                             | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP          |          |
| COMM 8186                             | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS |          |
| PSYC 8636                             | ORGANIZATIONAL PSYCHOLOGY                            |          |
| PSYC 9610                             | MOTIVATION & MORALE                                  |          |
| PSYC 9630                             | LEADERSHIP THEORIES AND RESEARCH                     |          |

## Logistics & Supply Chain Management Concentration

| Code                    | Title                                      | Credits  |
|-------------------------|--|----------|
| <b>Required</b>         |  | <b>3</b> |
| BSAD 8710               | SUPPLY CHAIN MANAGEMENT                    |          |
| <b>Elective Courses</b> |  | <b>6</b> |
| ACCT 8066               | ADVANCED MANAGERIAL ACCOUNTING             |          |
| ACCT 8230               | MANAGEMENT ACCOUNTING ISSUES               |          |
| BSAD 8066               | HEALTHCARE ANALYTICS FOR BUSINESS          |          |
| BSAD 8076               | INTERNATIONAL LOGISTICS MANAGEMENT         |          |
| BSAD 8096               | MANAGING COLLABORATIVE ENGAGEMENT          |          |
| BSAD 8176               | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT |          |
| BSAD 8336               | PROJECT MANAGEMENT                         |          |
| BSAD 8356               | GLOBAL SOURCING AND INNOVATION             |          |



|                         |  |          |
|-------------------------|--|----------|
| BSAD 8376               | SUPPLY CHAIN ANALYTICS                         |          |
| BSAD 8386               | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT |          |
| BSAD 8456               | MANAGERIAL NEGOTIATION STRATEGIES              |          |
| BSAD 8466               | SUPPLY CHAIN INTEGRATION                       |          |
| ECON 8210/<br>BSAD 8100 | APPLIED MANAGERIAL ECONOMICS                   |          |
| ECON 8216               | INDUSTRIAL ORGANIZATION                        |          |
| ECON 8230               | BUSINESS CONDITIONS ANALYSIS                   |          |
| ECON 8310/<br>BSAD 8080 | BUSINESS FORECASTING                           |          |
| ISQA 8016               | BUSINESS INTELLIGENCE                          |          |
| ISQA 8176               | DIGITAL SUPPLY CHAIN & LOGISTICS               |          |
| ISQA 8736               | DECISION SUPPORT SYSTEMS                       |          |
| <b>Total Credits</b>    |  | <b>9</b> |

## Marketing Strategy and Innovation Concentration

| Code                                  | Title                                 | Credits  |
|---------------------------------------|---------------------------------------|----------|
| <b>Select three of the following:</b> |                                       | <b>9</b> |
| BSAD 8206                             | CONSULTATIVE SELLING PRINCIPLES       |          |
| BSAD 8326                             | SALES MANAGEMENT                      |          |
| BSAD 8345                             | CONSUMER BEHAVIOR                     |          |
| BSAD 8396                             | MARKETING ANALYTICS                   |          |
| BSAD 8430                             | STRATEGIC BRAND MANAGEMENT            |          |
| BSAD 8435                             | MARKETING INNOVATION                  |          |
| BSAD 8726                             | INNOVATION VENTURES                   |          |
| BSAD 8766                             | SELLING IN AN ENTREPRENEURIAL CONTEXT |          |
| <b>Total Credits</b>                  |                                       | <b>9</b> |

## Risk Management Concentration

| Code                                | Title  | Credits  |
|-------------------------------------|--|----------|
| <b>Required Courses</b>             |  | <b>6</b> |
| BSAD 8540                           | MULTINATIONAL FINANCIAL MANAGEMENT           |          |
| BSAD 8576                           | INVESTMENT MANAGEMENT FOR FINANCIAL ANALYSTS |          |
| <b>Select one of the following:</b> |  | <b>3</b> |
| ACCT 8210                           | FINANCIAL ACCOUNTING THEORY                  |          |
| ACCT 8230                           | MANAGEMENT ACCOUNTING ISSUES                 |          |
| ACCT 8280                           | SEMINAR IN ACCOUNTING INFORMATION SYSTEMS    |          |
| ISQA 8580                           | SECURITY RISK MANAGEMENT AND ASSESSMENT      |          |
| ISQA 8820                           | PROJECT RISK MANAGEMENT                      |          |
| <b>Total Credits</b>                |  | <b>9</b> |

## Sports Management Concentration

| Code  | Title   | Credits  |
|---|---|----------|
| <b>Satisfactorily complete three of the following courses taught by Real Madrid's Graduate School</b> |   | <b>9</b> |
|   | Sports Facility Operations                          |          |
|   | Sports Industry Managerial Skills & Human Resources |          |
|   | Finance in the Sports Organization                  |          |
|   | Marketing & Communications I                        |          |
|   | Entrepreneurship & Sports for Development           |          |

## Marketing & Communications II

### General Management

## Sustainability Concentration

| Code                                | Title  | Credits  |
|-------------------------------------|--|----------|
| <b>Required</b>                     |  | <b>3</b> |
| ECON 8326                           | NATURAL RESOURCE ECONOMICS                                     |          |
| <b>Electives</b>                    |  | <b>6</b> |
| <b>Select two of the following:</b> |  |          |
| BIOL/PA/GEORG 8826                  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS                |          |
| ECON 8336                           | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY                  |          |
| ECON 8666                           | INTERNATIONAL ECONOMIC DEVELOPMENT                             |          |
| ENV 840                             | Climate Change, Sustainability & Public Health                 |          |
| ENV 892                             | Public Health, Environment & Society                           |          |
| ENVN 8316                           | OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY |          |
| GEORG 8166                          | URBAN SUSTAINABILITY   |          |
| PSCI 8276                           | GLOBAL ENVIRONMENTAL POLITICS                                  |          |
| PSCI 8296/<br>CACT 8306             | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY                     |          |
| <b>Total Credits</b>                |  | <b>9</b> |

## Academic Performance

Each semester, student files will be reviewed where a student received a grade lower than a "B" (3.0 out of 4.0). Following this review, the College of Business Administration's Graduate Program Council (CBA GPC) may place conditions or restrictions on the student. Following notification to the student, the student may petition the CBA GPC for a review of the conditions or restrictions imposed.

Students earning a third grade of "C+" or lower (or any single grade below "C" (1.67 on a 4.0 scale)) will be automatically dismissed from the MBA program. Dismissed students will be immediately administratively withdrawn from all courses in which they are enrolled for MBA credit. Students who have been dismissed may not enroll in any courses for MBA credit in any subsequent semester or summer session until reinstatement has been granted by the CBA GPC and the graduate dean.

Students who have been dismissed from the MBA program may submit a written petition for reinstatement to the CBA GPC. Students who have petitioned the CBA GPC for reinstatement may not enroll in any courses for MBA credit. Upon receiving a petition for reinstatement, the CBA GPC will evaluate the student's written petition for reinstatement. As part of the reinstatement petitioning process, the CBA GPC reserves the right to examine the student's academic record and reserves the right to speak to any previous instructor who has taught the student. This information may be used by the CBA GPC in the reinstatement decision. Information provided by previous instructors will not be shared with the student. Reinstatement is a privilege and not all students who are dismissed will be reinstated. Students who have been reinstated will serve a probationary period of the CBA GPC's discretion and must satisfy the probationary conditions specified by the CBA GPC. In addition to probationary conditions, reinstated students will be subject to additional reinstatement conditions as specified by the CBA GPC. These reinstatement conditions will include retaking one or more courses in which the student must earn a grade of "B" (3.0) or higher [the exact grade requirements for retaken courses may in fact be higher than "B" (3.0)]. Students not achieving the probationary or reinstatement conditions will be automatically dismissed.

## MBA Probation Policy

If granted Provisional Admission, the student must earn minimum "B" grades (3.0 on 4.0 scale) in each of the MBA courses completed in the first 12 hours of the program. Students not meeting this standard will be immediately placed on probation. A letter will be sent to the student regarding violation of the terms of provisional admission and the probation status. The student must submit a written letter to the CBA GPC acknowledging the basis for probation and requesting continuation in the MBA program within two weeks on receipt of the notification. Students who have petitioned the CBA GPC for continuation in the program may remain in the program and enroll in courses for MBA credit. Students who have NOT petitioned the CBA GPC for continuation within two weeks of notification, will not be allowed to remain in the program or register for courses, and will be administratively withdrawn. Upon receiving a petition for continuation, the CBA GPC will evaluate the student's written petition. As part of the petitioning process, the CBA GPC reserves the right to examine the student's academic record and reserves the right to speak to any previous instructor who has taught the student. This information may be used by the CBA GPC in the decision. Information provided by previous instructors will not be shared with the student. If a student's provisional status is restored, then the student will need to earn a B grade or better in the affected course at the earliest opportunity.

## MBA Program Two Strikes Rule

A UNO MBA student may enroll only **twice** in each MBA course. If the class is not successfully completed on the second attempt, then the student will be dismissed from the MBA program. **An enrollment is defined as being enrolled in the course after the last day to withdraw via MavLINK and receive a 100% refund. The last day for withdrawal will be as stated in the current academic calendar for a full semester course (3 credits) <http://registrar.unomaha.edu/calendar/>; for an eight-week graduate course (2 credits) the last day for withdrawal will be the third day (including the start date) of the course as designated in MavLINK.**

In addition to the Quality of Work Standards established by the Graduate College, MBA students may repeat only once a BSAD 8xx0 level course in which they receive any grade, including "W" or "I."

GPC Will Consider Grades Earned in Repeated Courses

When making decisions based on Quality of Work Standards issues, the CBA GPC will consider the initial grade(s) received in a course as well as the most recent grade received for the course. This approach differs from the method used to calculate GPA in a student's MavLINK/Degree Works file, where the most recent grade replaces the grade received in the previous attempt.

## Student Responsibilities

Each student admitted to graduate studies is responsible for knowing the procedures and regulations of the Graduate College.

Each student should consult with the MBA advisor at least once each semester to assure continued progress toward the degree objective. Students must maintain a 3.0 ("B") average to fulfill the program and graduation requirements. No more than two "C's" or two "C+'s" in graduate courses are permitted.

## Business Administration, Executive MBA

The mission and overarching themes of the Executive MBA program are to provide experienced managers and professionals with an applied and integrative business management education that develops and furthers their critical thinking, decision-making, and leadership abilities. Graduates of this program will be better prepared to drive and lead change, manage

resources, and effectively address strategic issues in a dynamic global economy.

The Executive MBA program is designed for middle- and upper-level managers, experienced professionals, and established business owners who have a vision for themselves and their firms.

## Program Related Information

### Program Contact

402.554.2448

[unoexecutivemba@unomaha.edu](mailto:unoexecutivemba@unomaha.edu)

**Program Website (<http://cba.unomaha.edu/xmba/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Fall 2026: June 15

### Other Requirements

- A minimum of six (6) years of professional-level work experience with managerial/supervisory experience preferred.
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Statement of Purpose:** In one page or less, describe your interest in the UNO Executive MBA and how completion of this program will help you achieve your career goals.
- Resume:** Current resume detailing employment history, specific job responsibilities, accomplishments, leadership roles, and community involvement.

## Degree Requirements

| Code                      | Title   | Credits   |
|---------------------------|---|-----------|
| <b>Required Courses</b>   |   |           |
| BSAD 8240                 | EFFECTIVE LEADERSHIP OF PEOPLE                          | 2         |
| BSAD 8260                 | EFFECTIVE USE & REPORTING OF ACCOUNTING INFORMATION     | 2         |
| BSAD 8380                 | EFFECTIVE SYSTEMS, OPERATIONS, AND IT                   | 2         |
| BSAD 8480                 | BUSINESS ECONOMICS AND CORPORATE STRATEGY               | 2         |
| BSAD 8360                 | EFFECTIVE MANAGEMENT OF CAPITAL STRUCTURE, CASH, & RISK | 2         |
| BSAD 8560                 | MARKETING STRATEGY: CUSTOMERS AND MARKETS               | 2         |
| BSAD 8570                 | EFFECTIVE STRATEGIC MANAGEMENT                          | 2         |
| <b>EMBA Concentration</b> |   | <b>12</b> |
| BSAD 8590                 | EXECUTIVE MBA CAPSTONE PROJECT                          | 4         |
| <b>Total Credits</b>      |   | <b>30</b> |

## Concentrations

### Executive Business Analytics Concentration

| Code                 | Title                                  | Credits   |
|----------------------|--|-----------|
| BSAD 8140            | BUSINESS INTELLIGENCE ANALYSIS         | 2         |
| BSAD 8160            | INTERMEDIATE ANALYTICS                 | 2         |
| BSAD 8190            | APPLICATIONS IN ANALYTICS              | 2         |
| BSAD 8220            | ADVANCED APPLICATIONS IN ANALYTICS     | 2         |
| BSAD 8440            | BUSINESS INTELLIGENCE DATA EXPLORATION | 2         |
| BSAD 8660            | FRONTIERS OF ANALYTICS                 | 2         |
| <b>Total Credits</b> |  | <b>12</b> |

### Executive Leadership Concentration

| Code                 | Title   | Credits   |
|----------------------|---|-----------|
| BSAD 8070            | COACHING & DEVELOPING OTHERS                    | 2         |
| BSAD 8230            | LEADING CHANGE & INNOVATION                     | 2         |
| BSAD 8280            | EMPLOYEE RECRUITMENT, ENGAGEMENT, AND RETENTION | 2         |
| BSAD 8330            | LEADING TEAMS                                   | 2         |
| BSAD 8370            | TALENT MANAGEMENT LEADERSHIP                    | 2         |
| BSAD 8650            | VISION & STRATEGIC LEADERSHIP                   | 2         |
| <b>Total Credits</b> |   | <b>12</b> |

### Executive MBA Strategic Leadership, Innovation, and Analytics Concentration

| Code                 | Title   | Credits   |
|----------------------|---|-----------|
| BSAD 8070            | COACHING & DEVELOPING OTHERS                    | 2         |
| BSAD 8140            | BUSINESS INTELLIGENCE ANALYSIS                  | 2         |
| BSAD 8160            | INTERMEDIATE ANALYTICS                          | 2         |
| BSAD 8230            | LEADING CHANGE & INNOVATION                     | 2         |
| BSAD 8280            | EMPLOYEE RECRUITMENT, ENGAGEMENT, AND RETENTION | 2         |
| BSAD 8440            | BUSINESS INTELLIGENCE DATA EXPLORATION          | 2         |
| <b>Total Credits</b> |   | <b>12</b> |

## Business Administration, MBA and Management Information Systems, MS (MBA/MIS)

In today's context of globally integrated and interdependent businesses, ubiquitous information technologies, and a mobile workforce, it is critical that graduate education provides students opportunities to develop integrated business and technology skills. The primary purpose of this dual degree program is to provide this integration by enabling students to complete the MBA and MS in MIS degrees simultaneously. This track is designed for dedicated students who are willing to take on the challenges related to graduate education from two perspectives—business administration and management information systems. As such, this program involves intensive preparation in both business administration and information systems and a specialization in an area that combines both backgrounds. The dual degree program requires a minimum of 55 hours of course work beyond foundation requirements. Students who wish to pursue this option must work closely with an adviser to develop an integrated plan of study at an early stage. Students who complete the dual degree program

will receive two degrees, two diplomas, and will have both degrees recorded on their transcript.

## Program Related Information

### Program Contacts

#### (Business Administration)

402.554.2448  
mba@unomaha.edu

#### (Management Information Systems)

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/information-systems-and-quantitative-analysis/graduate/Dual-Degree-MS-MIS-MBA.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1 (Limited availability for international applicants)
- Fall 2026: July 1 (June 1 for international applicants)

### Other Requirements

- All applicants must have earned a minimum junior/senior GPA of 3.0 for both the MBA and the MS in MIS programs.
- **Entrance Exam:** Submitting GMAT or GRE scores may strengthen your application.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** Applicants are required to submit a statement of purpose (500-750 words) addressing the following. The statement must be written in the applicant's own words, reflecting their goals and aspirations. Plagiarism in the statement may result in the rejection of the entire application.
  - Why you want to study at UNO
  - Career goals
  - Relevant qualifications or work experience that demonstrate potential for success in the graduate program
  - Motivations for pursuing graduate education
- **Resume:** Include work experience and education
- **OPTIONAL:** One letter of recommendation from a reference who can evaluate your work and/or academic achievements.
- **Interview:** optional
  - Although not required, applicants are strongly encouraged to arrange for an interview with one or more members of the graduate program committees of the MBA and MIS programs by directly contacting the committee chairperson of the College of IS&T.

Telephone interviews are highly recommended for applicants outside the local area.

- Students qualifying for admission based on the standard outlined above, but lacking some foundation courses, will be granted provisional status until all foundation courses are completed with grades of "B" (3.0 on a 4.0 scale) or better.

## Degree Requirements

### MBA Foundation Courses

| Code  | Title   | Credits |
|---|---|---------|
| <b>Accounting</b>   |   |         |
| Select one of the following:  |   | 3-6     |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS                               |         |
| ACCT 2010 & ACCT 2020   | PRINCIPLES OF ACCOUNTING I and PRINCIPLES OF ACCOUNTING II          |         |
| Or one year of Principles of Accounting at the undergraduate level  |   |         |
| <b>Economics</b>  |   |         |
| Select one of the following:  |   | 3-6     |
| ECON 1200   | SURVEY OF ECONOMICS   |         |
| ECON 2200 & ECON 2220   | PRINCIPLES OF ECONOMICS (MICRO) and PRINCIPLES OF ECONOMICS (MACRO) |         |
| Or Micro- and Macro-Economics at the undergraduate level  |   |         |
| <b>College Algebra</b>  |   |         |
| College Algebra or higher with the following courses at UNO:  |   |         |
| MATH 1220   | COLLEGE ALGEBRA   | 3       |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT  |         |
| or MATH 1320  | COLLEGE ALGEBRA   |         |
| <b>English Composition</b>  |   |         |
| A required course for all international students entering the MBA program who are required to take the TOEFL: |   |         |
| ENGL 1150   | ENGLISH COMPOSITION I   | 3       |

### MS in MIS Foundation Courses

Foundation courses ensure that all students have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out. Results of a test out are not appealable or repeatable.

Foundation courses cannot be used to satisfy the hours required for the dual degree. Students who have not completed all the foundation course requirements may be admitted on provisional status until those requirements have satisfactorily been completed. All must be completed

prior to or concurrent with the first six hours of MS in MIS graduate course work.

| Code  | Title   | Credits |
|---|---|---------|
| Six (6) hours of programming coursework or equivalent experience: |   |         |
| CIST 1600   | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING   | 3       |
| Or equivalent   |   |         |
| ISQA 3900   | WEB APPLICATION DEVELOPMENT   | 3       |
| Select one of the following:                                      |   |         |
| ISQA 8030   | FOUNDATIONS OF INFORMATION SYSTEMS  | 3       |
| Or equivalent   |   |         |
| Select one of the following:                                      |   | 3-6     |
| ISQA 8040   | AN OVERVIEW OF SYSTEMS DEVELOPMENT  |         |
| ISQA 4110 & ISQA 4120 & ISQA 3310                                 | INFORMATION SYSTEMS ANALYSIS and SYSTEM DESIGN AND IMPLEMENTATION and MANAGING THE DATABASE ENVIRONMENT |         |
| Or equivalent   |   |         |

### Joint Foundation Course

| Code  | Title                                       | Credits |
|---|---|---------|
| Statistics can be satisfied by either one of the following or one semester of undergraduate statistics: |   | 3       |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS           |         |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T |         |

### MBA/MIS Required Courses (38 hours)

#### MBA Program (20 hours)

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| BSAD 8000            | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2         |
| BSAD 8060            | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP <sup>1</sup>                 | 2         |
| BSAD 8150            | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2         |
| BSAD 8210            | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2         |
| BSAD 8250            | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2         |
| BSAD 8420            | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2         |
| BSAD 8630            | FINANCE: UNDERSTANDING CAPITAL AND CASH <sup>2</sup>                   | 2         |
| BSAD 8700            | BUSINESS ANALYTICS: MAKING SENSE OF DATA                               | 2         |
| BSAD 8720            | STRATEGIC FINANCIAL MANAGEMENT <sup>3</sup>                            | 2         |
| BSAD 8830            | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE <sup>4</sup>    | 2         |
| <b>Total Credits</b> |  | <b>20</b> |

<sup>1</sup> BSAD 8060: this is the first graduate-level course MBA students are to complete

<sup>2</sup> BSAD 8630 (prereq: completion of BSAD 8150 and BSAD 8210)

<sup>3</sup> BSAD 8720 (prereq: completion of BSAD 8630)

<sup>4</sup> BSAD 8830 (prereq: BSAD 8150 and BSAD 8210)

### MS in MIS Program (18 hours)

| Code                 | Title   | Credits   |
|----------------------|---|-----------|
| ISQA 8210            | MANAGEMENT OF SOFTWARE DEVELOPMENT              | 3         |
| ISQA 8220            | ADVANCED SYSTEMS ANALYSIS AND DESIGN            | 3         |
| ISQA 8310            | IT INFRASTRUCTURE & CLOUD COMPUTING             | 3         |
| ISQA 8380            | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION | 3         |
| ISQA 8410            | DATA MANAGEMENT                                 | 3         |
| ISQA 8420            | MANAGING THE I.S. FUNCTION                      | 3         |
| <b>Total Credits</b> |   | <b>18</b> |

### MBA Directed Elective Requirements

For students who have earned an undergraduate or graduate degrees in accounting, economics, management, or marketing, the core course(s) corresponding to the student's previously earned degree(s) will be waived. To satisfy degree requirements, the student must complete a directed elective in the waived field as indicated. For students who have earned an undergraduate or graduate degree in finance, the core course(s) corresponding to the student's previously earned degree may be waived upon request. Students with more than one core course waiver will be required to take an additional 1-credit hour seminar or 3-credit hour elective to fulfill degree requirements.

| Code                                 | Title  | Credits |
|--------------------------------------|--|---------|
| <b>Accounting Directed Electives</b> |  |         |
| ACCT 8016                            | ADVANCED FINANCIAL ACCOUNTING                  | 3       |
| ACCT 8046                            | ADVANCED FEDERAL INCOME TAXATION               | 3       |
| ACCT 8050                            | FINANCIAL STATEMENT ANALYSIS                   | 3       |
| ACCT 8066                            | ADVANCED MANAGERIAL ACCOUNTING                 | 3       |
| ACCT 8076                            | GOVERNMENTAL/NONPROFIT ACCOUNTING AND AUDITING | 3       |
| ACCT 8080                            | CURRENT TECHNOLOGY USE IN ACCOUNTING           | 3       |
| ACCT 8090                            | INFORMATION SYSTEMS AUDITING                   | 3       |
| ACCT 8210                            | FINANCIAL ACCOUNTING THEORY                    | 3       |
| ACCT 8220                            | GRADUATE TOPICS IN INCOME TAXATION             | 3       |
| ACCT 8230                            | MANAGEMENT ACCOUNTING ISSUES                   | 3       |
| ACCT 8250                            | SEMINAR IN ACCOUNTING                          | 3       |
| ACCT 8260                            | FEDERAL TAX RESEARCH AND PLANNING              | 3       |
| ACCT 8280                            | SEMINAR IN ACCOUNTING INFORMATION SYSTEMS      | 3       |
| ACCT 8290                            | ADVANCED FINANCIAL AUDITING                    | 3       |
| <b>Economics Directed Electives</b>  |  |         |
| ECON 8010                            | SEMINAR IN PUBLIC FINANCE                      | 3       |
| ECON 8080                            | MONEY AND FINANCIAL INSTITUTIONS               | 3       |
| ECON 8200                            | SEMINAR IN MICRO ECONOMIC THEORY               | 3       |
| ECON 8216                            | INDUSTRIAL ORGANIZATION                        | 3       |
| ECON 8220                            | SEMINAR IN MACRO THEORY                        | 3       |
| ECON 8230                            | BUSINESS CONDITIONS ANALYSIS                   | 3       |

|                     |   |   |
|---------------------|---|---|
| ECON 8290           | RESEARCH METHODS IN ECONOMICS AND BUSINESS          | 3 |
| ECON 8300           | ECONOMETRICS  | 3 |
| ECON 8306           | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS | 3 |
| ECON 8310/BSAD 8080 | BUSINESS FORECASTING                                | 3 |
| ECON 8316           | BUSINESS INTELLIGENCE AND REPORTING                 | 3 |
| ECON 8320           | TOOLS FOR DATA ANALYSIS                             | 3 |
| ECON 8326           | NATURAL RESOURCE ECONOMICS                          | 3 |
| ECON 8330           | DATA ANALYSIS FROM SCRATCH                          | 3 |
| ECON 8336           | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY       | 3 |
| ECON 8346           | ECONOMICS OF TECHNOLOGY                             | 3 |
| ECON 8576           | ECONOMIC CONDITIONS ANALYSIS                        | 3 |
| ECON 8616           | INTERNATIONAL TRADE                                 | 3 |
| ECON 8666           | INTERNATIONAL ECONOMIC DEVELOPMENT                  | 3 |
| ECON/BSAD 8736      | ECONOMICS OF ENTREPRENEURSHIP                       | 3 |
| ECON 8856           | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT         | 3 |

|                                   |  |   |
|-----------------------------------|--|---|
| <b>Finance Directed Electives</b> |  |   |
| BSAD 8516                         | SECURITY ANALYSIS & INVESTING                | 3 |
| BSAD 8520                         | SEMINAR INVESTMENT MANAGEMENT                | 3 |
| BSAD 8530                         | BANK & FINANCIAL MARKETS                     | 3 |
| BSAD 8540                         | MULTINATIONAL FINANCIAL MANAGEMENT           | 3 |
| BSAD 8550                         | SEMINAR IN FINANCE                           | 3 |
| BSAD 8576                         | INVESTMENT MANAGEMENT FOR FINANCIAL ANALYSTS | 3 |
| BSAD 8596                         | INSURANCE PLANNING                           | 3 |
| BSAD 8600                         | REAL ESTATE FINANCE THEORY AND APPLICATIONS  | 3 |
| BSAD 8606                         | FINANCIAL RISK MANAGEMENT                    | 3 |
| BSAD 8610                         | REAL ESTATE APPRAISAL                        | 3 |
| BSAD 8616                         | REAL ESTATE INVESTMENTS                      | 3 |
| HSRA 872                          | Health Care Finance                          | 3 |

|   |   |   |
|---|---|---|
| <b>Information Systems Directed Electives</b> |   |   |
| ISQA 8016                                     | BUSINESS INTELLIGENCE                             | 3 |
| ISQA 8106                                     | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION | 3 |
| ISQA 8156                                     | ADVANCED STATISTICAL METHODS FOR IS&T             | 3 |
| ISQA 8180                                     | ELECTRONIC COMMERCE                               | 3 |
| ISQA 8196                                     | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY | 3 |
| ISQA 8206                                     | INFORMATION AND DATA QUALITY MANAGEMENT           | 3 |
| ISQA 8210                                     | MANAGEMENT OF SOFTWARE DEVELOPMENT                | 3 |
| ISQA 8220                                     | ADVANCED SYSTEMS ANALYSIS AND DESIGN              | 3 |
| ISQA 8306                                     | DATABASE ADMINISTRATION                           | 3 |
| ISQA 8310                                     | IT INFRASTRUCTURE & CLOUD COMPUTING               | 3 |
| ISQA 8340                                     | APPLIED REGRESSION ANALYSIS                       | 3 |
| ISQA 8410                                     | DATA MANAGEMENT                                   | 3 |
| ISQA 8420                                     | MANAGING THE I.S. FUNCTION                        | 3 |



|              |   |   |
|--------------|---|---|
| ISQA 8525    | GRAPHICAL USER INTERFACE DESIGN             | 3 |
| ISQA 8546    | COMPUTER SECURITY MANAGEMENT                | 3 |
| ISQA 8560    | INFORMATION WARFARE AND SECURITY            | 3 |
| ISQA 8570    | INFORMATION SECURITY POLICY AND ETHICS      | 3 |
| or CYBR 8570 | INFORMATION SECURITY POLICY AND ETHICS      |   |
| ISQA 8580    | SECURITY RISK MANAGEMENT AND ASSESSMENT     | 3 |
| ISQA 8700    | DATA MINING: THEORY AND PRACTICE            | 3 |
| ISQA 8736    | DECISION SUPPORT SYSTEMS                    | 3 |
| ISQA 8810    | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS | 3 |
| ISQA 8820    | PROJECT RISK MANAGEMENT                     | 3 |
| ISQA 9120    | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS    | 3 |

**Management Directed Electives**

|           |  |   |
|-----------|--|---|
| BSAD 8096 | MANAGING COLLABORATIVE ENGAGEMENT  | 3 |
| BSAD 8136 | HUMAN RESOURCE MANAGEMENT  | 3 |
| BSAD 8146 | TOTAL REWARDS  | 3 |
| BSAD 8156 | TALENT DEVELOPMENT   | 3 |
| BSAD 8166 | STAFFING THE ORGANIZATION  | 3 |
| BSAD 8176 | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT   | 3 |
| BSAD 8300 | ORGANIZATION THEORY & DESIGN   | 3 |
| BSAD 8326 | SALES MANAGEMENT   | 3 |
| BSAD 8336 | PROJECT MANAGEMENT   | 3 |
| BSAD 8340 | INTERNATIONAL BUSINESS STUDY ABROAD  | 3 |
| BSAD 8356 | GLOBAL SOURCING AND INNOVATION   | 3 |
| BSAD 8376 | SUPPLY CHAIN ANALYTICS   | 3 |
| BSAD 8386 | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT   | 3 |
| BSAD 8456 | MANAGERIAL NEGOTIATION STRATEGIES  | 3 |
| BSAD 8710 | SUPPLY CHAIN MANAGEMENT  | 3 |
| BSAD 8726 | INNOVATION VENTURES  | 3 |
| CACT 8520 | POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP  | 3 |
| CMST 8186 | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS   | 3 |
| PSYC 8636 | ORGANIZATIONAL PSYCHOLOGY  | 3 |
| PSYC 8646 | PERSONNEL PSYCHOLOGY   | 3 |
| PSYC 9620 | TRAINING AND DEVELOPMENT   | 3 |
| PSYC 9630 | LEADERSHIP THEORIES AND RESEARCH   | 3 |
| PSYC 9660 | CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL (CPH 840:: Health Administration Leadership) | 3 |
| CPH 840   | Health Administration Leadership   |   |

**Marketing Directed Electives**

|           |  |   |
|-----------|--|---|
| BSAD 8206 | CONSULTATIVE SELLING PRINCIPLES                | 3 |
| BSAD 8216 | SELLING FINANCIAL SERVICES                     | 3 |
| BSAD 8326 | SALES MANAGEMENT                               | 3 |
| BSAD 8345 | CONSUMER BEHAVIOR                              | 3 |
| BSAD 8386 | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT | 3 |
| BSAD 8426 | BUSINESS DEMOGRAPHICS                          | 3 |
| BSAD 8430 | STRATEGIC BRAND MANAGEMENT                     | 3 |

|           |                                       |   |
|-----------|---------------------------------------|---|
| BSAD 8435 | MARKETING INNOVATION                  | 3 |
| BSAD 8450 | SEMINAR IN MARKETING                  | 3 |
| BSAD 8710 | SUPPLY CHAIN MANAGEMENT               | 3 |
| BSAD 8726 | INNOVATION VENTURES                   | 3 |
| BSAD 8766 | SELLING IN AN ENTREPRENEURIAL CONTEXT | 3 |

**MBA/MIS Electives**

12 hours from one of the areas of focus listed below

Students must take a minimum of three credit hours of the ISQA 8000-level elective courses and a minimum of three credit hours of the BSAD or ECON 8000-level elective courses

Students may enroll in a maximum of six credit hours of dual-level (8–6) elective courses

Students may pursue an alternate area of focus with the approval of the graduate program committee

**Technology Entrepreneurship Focus**

| Code                    | Title                                  | Credits |
|-------------------------|--|---------|
| BSAD 8080/<br>ECON 8310 | BUSINESS FORECASTING                   | 3       |
| ECON 8346               | ECONOMICS OF TECHNOLOGY                | 3       |
| ECON/BSAD 8736          | ECONOMICS OF ENTREPRENEURSHIP          | 3       |
| ISQA 8180               | ELECTRONIC COMMERCE                    | 3       |
| ISQA/CYBR 8570          | INFORMATION SECURITY POLICY AND ETHICS | 3       |

**Business Process Transformation Focus**

| Code           | Title   | Credits |
|----------------|---|---------|
| BSAD 8300      | ORGANIZATION THEORY & DESIGN                      | 3       |
| ECON 8346      | ECONOMICS OF TECHNOLOGY                           | 3       |
| ISQA 8196      | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY | 3       |
| ISQA 8736      | DECISION SUPPORT SYSTEMS                          | 3       |
| ISQA/CYBR 8570 | INFORMATION SECURITY POLICY AND ETHICS            | 3       |
| ISQA 8810      | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS       | 3       |
| ISQA 8820      | PROJECT RISK MANAGEMENT                           | 3       |
| ISQA 8460      | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD  | 3       |

**Applied Quantitative Techniques Focus**

| Code                         | Title                                 | Credits |
|------------------------------|---------------------------------------|---------|
| ISQA 8156                    | ADVANCED STATISTICAL METHODS FOR IS&T | 3       |
| ECON 8320                    | TOOLS FOR DATA ANALYSIS               | 3       |
| Select two of the following: |                                       | 6       |
| ECON 8300                    | ECONOMETRICS                          |         |
| ECON 8310/<br>BSAD 8080      | BUSINESS FORECASTING                  |         |
| ECON 8316                    | BUSINESS INTELLIGENCE AND REPORTING   |         |
| ECON 8330                    | DATA ANALYSIS FROM SCRATCH            |         |
| ISQA 8160                    | APPLIED DISTRIBUTION FREE STATISTICS  |         |
| ISQA 8340                    | APPLIED REGRESSION ANALYSIS           |         |
| ISQA 8720                    | APPLIED STATISTICAL MACHINE LEARNING  |         |

|           |                          |
|-----------|--------------------------|
| ISQA 8736 | DECISION SUPPORT SYSTEMS |
| ISQA 8750 | STORYTELLING WITH DATA   |

### Health Care Information Systems Focus

| Code                       | Title   | Credits |
|----------------------------|---|---------|
| BMI 8100                   | INTRODUCTION TO BIOMEDICAL INFORMATICS            | 3       |
| BMI 8850                   | BIOMEDICINE FOR THE NONMEDICAL PROFESSIONAL       | 3       |
| Pick one of the following: |   | 3       |
| ISQA 8196                  | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY |         |
| ISQA 8206                  | INFORMATION AND DATA QUALITY MANAGEMENT           |         |
| ISQA 8525                  | GRAPHICAL USER INTERFACE DESIGN                   |         |
| ISQA 8700                  | DATA MINING: THEORY AND PRACTICE                  |         |
| ISQA 8810                  | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS       |         |
| ISQA 8750                  | STORYTELLING WITH DATA                            |         |

### MBA/MIS Exit Requirements

#### Capstone Courses (5 hours)

**BSAD 8800 - MBA Project-Focused Capstone.** As the project-focused capstone course for the Master of Business Administration (MBA) degree, this course will focus on students completing a service-learning consulting project for a non-profit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the Capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class.

OR

**ECON 8330 - Data Analysis from Scratch.** This course may be substituted for BSAD 8800 as the Capstone requirement for MBA students. Students in the course will work on a service-learning consulting project, specifically focused on a client data project. The consulting project will focus on the application of knowledge and skills learned in the MBA program and the Business Analytics concentration. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite(s)/Corequisite(s):** A multivariate or regression analysis course such as ECON 8300 (<https://catalog.unomaha.edu/search/?P=ECON%208300>), ISQA 9130 (<https://catalog.unomaha.edu/search/?P=ISQA%209130>) or STAT 8436 (<https://catalog.unomaha.edu/search/?P=STAT%208436>), and a programming class such as ECON 8320 (<https://catalog.unomaha.edu/search/?P=ECON%208320>) or equivalent programming experience; or instructor approval. Students also must successfully complete BSAD 8630 (<https://catalog.unomaha.edu/search/?P=BSAD%208630>), BSAD 8420 (<https://catalog.unomaha.edu/search/?P=BSAD%208420>), and BSAD 8830 (<https://catalog.unomaha.edu/search/?P=BSAD%208830>) before taking this course for the Capstone requirement. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program.

ISQA 8950 **MIS Capstone** (3 credits) (taken within the last 6 hours or the final semester of the program, with all core courses completed).

| Code         | Title                        | Credits |
|--------------|------------------------------|---------|
| BSAD 8800    | MBA PROJECT-FOCUSED CAPSTONE | 2-3     |
| or ECON 8330 | DATA ANALYSIS FROM SCRATCH   |         |

|           |   |   |
|-----------|---|---|
| ISQA 8950 | CAPSTONE MANAGEMENT INFORMATION SYSTEMS | 3 |
|-----------|---|---|

### Thesis Option

To take this option, a student will be required to enroll in six (6) hours of thesis credit:

#### MBA Program

| Code      | Title  | Credits |
|-----------|--------|---------|
| BSAD 8990 | THESIS | 1-6     |

#### MS-MIS Program

| Code      | Title  | Credits |
|-----------|--------|---------|
| ISQA 8990 | THESIS | 3       |

The thesis must be in an area that relates to both the business administration and information systems domains. The Supervisory Committee must include at least one CBA faculty member and one ISQA faculty member.

### Other Requirements to Complete the Program

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

### Other Program-Related Information

#### Transfer Credits

A student may transfer credits into the MBA/MIS dual-degree program subject to the following conditions:

- No more than 1/3 of the credits for the dual-degree program may be transfer credits
- No more than 1/3 of the business credits for the dual-degree program may be transfer credits
- No more than 1/3 of the MIS credits for the dual-degree program may be transfer credits
- The transfer credits must conform to the transfer policies of the individual programs that make up the dual-degree program

#### Total Credit Hours: 55

### Academic Performance

In addition to UNO Graduate College Quality of Work Standards, Dual Degree (DD) students may repeat only once a BSAD 8-0-level course in which they receive any grade, including "W" or "I". Students earning three "C/C+" grades, or a grade of "C-" or below, will be automatically dismissed from the DD program. Dismissed students will be immediately administratively withdrawn from all courses in which they are enrolled for DD credit.

Students who have been dismissed may not enroll in any courses for DD credit in any subsequent semester or summer session until reinstatement has been granted by the Dual-Degree Program Academic Standards Committee (DDPASC) comprised of the 2 GPC Chairs and 1 faculty member from each GPC.

Students who have been dismissed from the DD program may submit a written petition for reinstatement to the DDPASC. Students petitioning the DDPASC for reinstatement may not enroll in any course for DD credit until after the DDPASC has ruled on the petition. Upon receiving a petition for reinstatement, the DDPASC will evaluate the student's written petition for reinstatement. As part of the reinstatement petitioning process, the DDPASC reserves the right to examine the student's academic record and reserves the right to speak to any previous instructor who has taught the

student; this information may be used by the DDPASC in the reinstatement decision. Information provided by previous instructors will not be shared with the student. Reinstatement is a privilege and not all students who are dismissed will be reinstated. Students who have been reinstated will serve a probationary period at the DDPASC's discretion and must satisfy the probationary conditions specified by the DDPASC. In addition to probationary conditions, reinstated students will be subject to additional reinstatement conditions as specified by the DDPASC. These reinstatement conditions will include retaking one or more courses in which the student must earn a grade of "B" (3.0) or higher (the exact grade requirements for retaken courses may in fact be higher than "B" (3.0)). Students not satisfying the probationary or reinstatement conditions will be automatically dismissed.

## Grades Earned in Repeated Courses

When making decisions related to the Quality of Work Standards issues outlined in the UNO Graduate Catalog, the Dual-Degree Program Academic Standards Committee (DDPASC) will consider the initial grade(s) received in a course as well as the most recent grade received for the course. This approach differs from the method used to calculate GPA in a student's MavLINK/DegreeWorks file, where the most recent grade replaces the grade received in the previous course attempt.

# Business Administration, MBA and Economics, MS (MBA/ECON)

In a world with increasingly more data, the quantitative focus of the graduate economics degree is increasingly attractive to students and employers. Businesses generate data at an unprecedented rate, and the econometric and modeling skills of an applied economics degree allows graduates to make sense of business data in a systematic and scientific way. This specialization is enhanced with the broad knowledge provided by an MBA degree. Students in the MBA program demonstrate basic proficiency in a number of business-related disciplines, including marketing, management, accounting, and finance. This wide domain of knowledge allows students to apply the analytical skills learned in economics courses to a wider set of business problems, thereby adding value to their organizations. Students who wish to pursue this option must work closely with an advisor to develop an integrated plan of study at an early stage. Students who complete the dual degree program will receive two degrees, two diplomas, and will have both degrees recorded on their transcript.

## Program Related Information

### Program Contacts

#### (Business Administration)

402.554.2448  
mba@unomaha.edu

#### (Economics)

Catherine Co, PhD, Graduate Program Chair and Advisor  
402.554.2805  
cco@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-business-administration/mba/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1 (Limited availability for international applicants)
- Fall 2026: July 1 (June 1 for international applicants)

## Other Requirements

- Junior/senior GPA of at least 2.85 (on a 4.0 point scale)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** (employment and educational history)

## Degree Requirements

### MBA Foundation Courses

| Code   | Title  | Credits |
|--|--|---------|
| <b>Accounting</b>  |  |         |
| Select one of the following:                                 |  | 3-6     |
| BSAD 8110  | ACCOUNTING AND FINANCIAL FUNDAMENTALS  |         |
| ACCT 2010 & ACCT 2020  | PRINCIPLES OF ACCOUNTING I and PRINCIPLES OF ACCOUNTING II   |         |
| <b>Economics</b>   |  |         |
| ECON 2200  | PRINCIPLES OF ECONOMICS (MICRO)  | 3       |
| ECON 2220  | PRINCIPLES OF ECONOMICS (MACRO)  | 3       |
| ECON 3200  | ECONOMIC THEORY: MICRO   | 3       |
| ECON 3220  | ECONOMIC THEORY: MACRO   | 3       |
| <b>Mathematics</b>   |  |         |
| College Algebra or higher with the following courses at UNO: |  |         |
| MATH 1220  | COLLEGE ALGEBRA  | 3       |
| or MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT   |         |
| or MATH 1320   | COLLEGE ALGEBRA  |         |
| <b>Other Foundation Courses</b>                              |  |         |
| BSAD 2130  | PRINCIPLES OF BUSINESS STATISTICS  | 3       |
| ENGL 1150  | ENGLISH COMPOSITION I (A required course for all students entering this program who are required to take the English proficiency exam) | 3       |

### MBA/Economics Required Courses

| Code      | Title  | Credits |
|-----------|--|---------|
| ECON 8290 | RESEARCH METHODS IN ECONOMICS AND BUSINESS   | 3       |
| ECON 8306 | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS (ECON 8306 is not required for students demonstrating satisfactory mathematical skills. If it is not taken, three additional hours of economics approved elective will be required.) | 3       |
| ECON 8200 | SEMINAR IN MICRO ECONOMIC THEORY   | 3       |
| ECON 8220 | SEMINAR IN MACRO THEORY  | 3       |
| ECON 8300 | ECONOMETRICS   | 3       |

|  |  |           |
|--|--|-----------|
| BSAD 8060  | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP                              | 2         |
| BSAD 8000  | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2         |
| BSAD 8040  | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION | 2         |
| BSAD 8210  | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2         |
| BSAD 8250  | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2         |
| BSAD 8420  | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2         |
| BSAD 8630  | FINANCE: UNDERSTANDING CAPITAL AND CASH                                | 2         |
| BSAD 8700  | BUSINESS ANALYTICS: MAKING SENSE OF DATA                               | 2         |
| BSAD 8720  | STRATEGIC FINANCIAL MANAGEMENT   | 2         |
| BSAD 8830  | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE                 | 2         |
| BSAD 8800  | MBA PROJECT-FOCUSED CAPSTONE   | 2         |
| <b>Electives</b>   |  | <b>21</b> |
| Electives must contain 9 from the approved MBA elective list, 9 credits from the economics approved elective list, and 3 credits from from courses common to both lists. |  |           |
| <b>Total Credits</b>   |  | <b>58</b> |

## Exit Requirements

### MBA Exit Requirement

**BSAD 8800 - MBA Project-Focused Capstone.** As the project-focused capstone course for the Master of Business Administration (MBA) degree, this course will focus on students completing a service-learning consulting project for a non-profit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class. Not open to non-degree graduate students.

**ECON 8330 - Data Analysis from Scratch.** This course may be substituted for BSAD 8800 as the Capstone requirement for MBA students. Students in the course will work on a service-learning consulting project, specifically focused on a client data project. The consulting project will focus on the application of knowledge and skills learned in the MBA program and the Business Analytics concentration. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite(s)/Corequisite(s):** A multivariate or regression analysis course such as ECON 8300 (<https://catalog.unomaha.edu/search/?P=ECON%208300>), ISQA 9130 (<https://catalog.unomaha.edu/search/?P=ISQA%209130>) or STAT 8436 (<https://catalog.unomaha.edu/search/?P=STAT%208436>), and a programming class such as ECON 8320 (<https://catalog.unomaha.edu/search/?P=ECON%208320>) or equivalent programming experience; or instructor approval. Students also must successfully complete BSAD 8630 (<https://catalog.unomaha.edu/search/?P=BSAD%208630>), BSAD 8420 (<https://catalog.unomaha.edu/search/?P=BSAD%208420>), and BSAD 8830 (<https://catalog.unomaha.edu/search/?P=BSAD%208830>) before taking this course for the Capstone requirement. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Not open to non-degree graduate students.

## Economics Exit Requirement

Comprehensive Examination

## Other Requirements to Complete the Program

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

## Concentrations

### Business Analytics Concentration

| Code                 | Title   | Credits   |
|----------------------|---|-----------|
| ECON 8306            | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS | 3         |
| ECON 8300            | ECONOMETRICS <sup>1</sup>                           | 3         |
| ECON 8320            | TOOLS FOR DATA ANALYSIS                             | 3         |
| ECON 8310            | BUSINESS FORECASTING                                | 3         |
| ECON 8330            | DATA ANALYSIS FROM SCRATCH <sup>2</sup>             | 3         |
| <b>Total Credits</b> |   | <b>15</b> |

<sup>1</sup> Successful completion of ECON 8300 substitutes BSAD 8700.

<sup>2</sup> Successful completion of ECON 8330 substitutes BSAD 8800.

Please note: 57 total hours are required for students pursuing the Business Analytics concentration

### Business Economics Concentration

| Code                                  | Title   | Credits  |
|---------------------------------------|---|----------|
| <b>Select three of the following:</b> |   |          |
| ECON 8080                             | MONEY AND FINANCIAL INSTITUTIONS              | 3        |
| ECON 8210/<br>BSAD 8100               | APPLIED MANAGERIAL ECONOMICS                  | 3        |
| ECON 8216                             | INDUSTRIAL ORGANIZATION                       | 3        |
| ECON 8246                             | LABOR ECONOMICS                               | 3        |
| ECON 8310/<br>BSAD 8080               | BUSINESS FORECASTING                          | 3        |
| ECON 8336                             | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY | 3        |
| ECON 8576                             | ECONOMIC CONDITIONS ANALYSIS                  | 3        |
| ECON 8616                             | INTERNATIONAL TRADE                           | 3        |
| ECON 8940                             | ECONOMIC INTERNSHIP                           | 3        |
| <b>Total Credits:</b>                 |   | <b>9</b> |

### Business Technology Concentration

| Code                                  | Title   | Credits |
|---------------------------------------|---|---------|
| <b>Select three of the following:</b> |   |         |
| BSAD 8336                             | PROJECT MANAGEMENT                                |         |
| BSAD 8736                             | ECONOMICS OF ENTREPRENEURSHIP                     |         |
| CSCI 8590                             | FUNDAMENTALS OF DEEP LEARNING                     |         |
| ECON 8346                             | ECONOMICS OF TECHNOLOGY                           |         |
| ISQA 8016                             | BUSINESS INTELLIGENCE                             |         |
| ISQA 8106                             | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION |         |
| ISQA 8176                             | DIGITAL SUPPLY CHAIN & LOGISTICS                  |         |
| ISQA 8180                             | ELECTRONIC COMMERCE                               |         |
| ISQA 8196                             | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY |         |

|                       |   |
|-----------------------|---|
| ISQA 8206             | INFORMATION AND DATA QUALITY MANAGEMENT     |
| ISQA 8210             | MANAGEMENT OF SOFTWARE DEVELOPMENT          |
| ISQA 8220             | ADVANCED SYSTEMS ANALYSIS AND DESIGN        |
| ISQA 8306             | DATABASE ADMINISTRATION                     |
| ISQA 8310             | IT INFRASTRUCTURE & CLOUD COMPUTING         |
| ISQA 8410             | DATA MANAGEMENT                             |
| ISQA 8420             | MANAGING THE I.S. FUNCTION                  |
| ISQA 8525             | GRAPHICAL USER INTERFACE DESIGN             |
| ISQA 8546             | COMPUTER SECURITY MANAGEMENT                |
| ISQA/CYBR 8570        | INFORMATION SECURITY POLICY AND ETHICS      |
| ISQA 8580             | SECURITY RISK MANAGEMENT AND ASSESSMENT     |
| ISQA 8700             | DATA MINING: THEORY AND PRACTICE            |
| ISQA 8736             | DECISION SUPPORT SYSTEMS                    |
| ISQA 8810             | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS |
| ISQA 8820             | PROJECT RISK MANAGEMENT                     |
| <b>Total Credits:</b> | <b>9</b>                                    |

## Certified Financial Planner (CFP) Concentration

| Code                                 | Title                                       | Credits  |
|--------------------------------------|---|----------|
| <b>Required Course</b>               |   |          |
| BSAD 8836                            | FUNDAMENTALS OF FINANCIAL PLANNING          | 3        |
| Select six hours from the following: |   | 6        |
| BSAD 8516                            | SECURITY ANALYSIS & INVESTING               |          |
| BSAD 8596                            | INSURANCE PLANNING                          |          |
| BSAD 8846                            | RETIREMENT PLANNING & EMPLOYEE BENEFITS     |          |
| BSAD 8866                            | APPLICATIONS IN PERSONAL FINANCIAL PLANNING |          |
| <b>Total Credits</b>                 |   | <b>9</b> |

## Collaboration Science Concentration

| Code                         | Title                                      | Credits  |
|------------------------------|--|----------|
| <b>Required</b>              |  |          |
| BSAD 8096                    | MANAGING COLLABORATIVE ENGAGEMENT          | 3        |
| <b>Electives</b>             |  | <b>6</b> |
| Select two of the following: |  |          |
| BSAD 8300                    | ORGANIZATION THEORY & DESIGN               |          |
| BSAD 8336                    | PROJECT MANAGEMENT                         |          |
| BSAD 8456                    | MANAGERIAL NEGOTIATION STRATEGIES          |          |
| CMST 8196                    | COMPUTER-MEDIATED COMMUNICATION            |          |
| PSYC 8656                    | CREATIVITY AND INNOVATION IN ORGANIZATIONS |          |
| PSYC 9680                    | GROUPS AND TEAMS                           |          |
| <b>Total Credits</b>         |  | <b>9</b> |

## Econometrics and Data Analytics Concentration

| Code                    | Title                      | Credits  |
|-------------------------|----------------------------|----------|
| <b>Required Courses</b> |                            |          |
| ECON 8320               | TOOLS FOR DATA ANALYSIS    | 3        |
| ECON 8310/<br>BSAD 8080 | BUSINESS FORECASTING       | 3        |
| ECON 8330               | DATA ANALYSIS FROM SCRATCH | 3        |
| <b>Total Credits:</b>   |                            | <b>9</b> |

## Entrepreneurship Concentration

| Code                                 | Title  | Credits  |
|--------------------------------------|--|----------|
| <b>Required</b>                      |  |          |
| BSAD 8256                            | NEW VENTURE FORMATION                                | 3        |
| Select six hours from the following: |  | 6        |
| BSAD 8435                            | MARKETING INNOVATION                                 |          |
| BSAD 8696                            | EMERGING TECHNOLOGY AND INNOVATION                   |          |
| BSAD 8726                            | INNOVATION VENTURES                                  |          |
| BSAD 8766                            | SELLING IN AN ENTREPRENEURIAL CONTEXT                |          |
| BSAD 8776                            | INTRODUCTORY MAVERICK VENTURE FUND                   |          |
| BSAD 8786                            | INTERMEDIATE MAVERICK VENTURE FUND                   |          |
| BSAD 8796                            | ADVANCED MAVERICK VENTURE FUND                       |          |
| ENTR 8156                            | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP               |          |
| ENTR 8716                            | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION |          |
| <b>Total Credits</b>                 |  | <b>9</b> |

## Growth, Development, and Sustainability Concentration

| Code                                  | Title   | Credits  |
|---------------------------------------|---|----------|
| <b>Select three of the following:</b> |   |          |
| ECON 8216                             | INDUSTRIAL ORGANIZATION                       | 3        |
| ECON 8336                             | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY | 3        |
| ECON 8616                             | INTERNATIONAL TRADE                           | 3        |
| ECON 8666                             | INTERNATIONAL ECONOMIC DEVELOPMENT            | 3        |
| ECON 8856                             | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT   | 3        |
| <b>Total Credits:</b>                 |   | <b>9</b> |

## Health Care Management Concentration

| Code                                  | Title                                  | Credits |
|---------------------------------------|--|---------|
| <b>Select three of the following:</b> |  |         |
| BSAD 8066                             | HEALTHCARE ANALYTICS FOR BUSINESS      |         |
| GERO/PA 8516                          | LONG-TERM CARE ADMINISTRATION          |         |
| PHHB 8600                             | HEALTH BEHAVIOR                        |         |
| PHHB 8950                             | PUBLIC HEALTH LEADERSHIP AND ADVOCACY  |         |
| ISQA/CYBR 8570                        | INFORMATION SECURITY POLICY AND ETHICS |         |
| PA 8740                               | HEALTH CARE POLICY (HSRA 874)          |         |
| CPH 569                               | Health Administration Leadership       |         |



|                      |                                |          |
|----------------------|--------------------------------|----------|
| CPH 570              | Health Administration Law      |          |
| HSRA 873             | Health Services Administration |          |
| <b>Total Credits</b> |                                | <b>9</b> |

## Human Resource Management Concentration

| Code                           | Title                                      | Credits |
|--------------------------------|--|---------|
| Select three of the following: |  | 9       |
| BSAD 8136                      | HUMAN RESOURCE MANAGEMENT                  |         |
| BSAD 8146                      | TOTAL REWARDS                              |         |
| BSAD 8156                      | TALENT DEVELOPMENT                         |         |
| BSAD 8166                      | STAFFING THE ORGANIZATION                  |         |
| BSAD 8300                      | ORGANIZATION THEORY & DESIGN               |         |
| CMST 8156                      | ORGANIZATIONAL TRAINING AND DEVELOPMENT    |         |
| PSYC 8316                      | PSYCHOLOGICAL AND EDUCATIONAL TESTING      |         |
| PSYC 8636                      | ORGANIZATIONAL PSYCHOLOGY                  |         |
| PSYC 8646                      | PERSONNEL PSYCHOLOGY                       |         |
| PSYC 8656                      | CREATIVITY AND INNOVATION IN ORGANIZATIONS |         |
| PSYC 9630                      | LEADERSHIP THEORIES AND RESEARCH           |         |
| Total Credits                  |  | 9       |

## International Business Concentration

| Code  | Title  | Credits |
|---|--|---------|
| Select three of the following with a minimum of one course from BSAD or ECON: |  | 9       |
| BSAD 8076   | INTERNATIONAL LOGISTICS MANAGEMENT               |         |
| BSAD 8336   | PROJECT MANAGEMENT                               |         |
| BSAD 8340   | INTERNATIONAL BUSINESS STUDY ABROAD              |         |
| BSAD 8356   | GLOBAL SOURCING AND INNOVATION                   |         |
| BSAD 8386   | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT   |         |
| BSAD 8540   | MULTINATIONAL FINANCIAL MANAGEMENT               |         |
| CMST 8536   | INTERCULTURAL COMMUNICATION-US                   |         |
| CMST 8576   | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE |         |
| ECON 8080   | MONEY AND FINANCIAL INSTITUTIONS                 |         |
| ECON 8616   | INTERNATIONAL TRADE                              |         |
| ECON 8666   | INTERNATIONAL ECONOMIC DEVELOPMENT               |         |
| ECON 8856   | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT      |         |
| GEOG 8556   | GEOGRAPHY OF THE WORLD ECONOMY                   |         |
| ISQA 8176   | DIGITAL SUPPLY CHAIN & LOGISTICS                 |         |
| No more than one PSCI course may be taken:                                    |  |         |
| PSCI 8250   | SEMINAR IN INTERNATIONAL RELATIONS               |         |
| PSCI 8296   | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY       |         |
| PSCI 8500   | SEMINAR IN COMPARATIVE POLITICS                  |         |
| PSCI 8705   | GOVERNMENT AND POLITICS OF THE MIDDLE EAST       |         |
| Total Credits   |  | 9       |

## International Economics Concentration

| Code                                  | Title                              | Credits  |
|---------------------------------------|------------------------------------|----------|
| <b>Select three of the following:</b> |                                    |          |
| ECON 8616                             | INTERNATIONAL TRADE                | 3        |
| ECON 8626                             | INTERNATIONAL MONETARY THEORY      | 3        |
| ECON 8666                             | INTERNATIONAL ECONOMIC DEVELOPMENT | 3        |
| BSAD 8356                             | GLOBAL SOURCING AND INNOVATION     | 3        |
| BSAD 8540                             | MULTINATIONAL FINANCIAL MANAGEMENT | 3        |
| <b>Total Credits:</b>                 |                                    | <b>9</b> |

## Investment Science Concentration

| Code                                   | Title  | Credits  |
|--|--|----------|
| <b>Required</b>                        |  | <b>6</b> |
| BSAD 8516                              | SECURITY ANALYSIS & INVESTING  |          |
| BSAD 8540                              | MULTINATIONAL FINANCIAL MANAGEMENT   |          |
| Select three hours from the following: |  | <b>3</b> |
| BSAD 8776 & BSAD 8786 & BSAD 8796      | INTRODUCTORY MAVERICK VENTURE FUND and INTERMEDIATE MAVERICK VENTURE FUND and ADVANCED MAVERICK VENTURE FUND |          |
| ECON 8080                              | MONEY AND FINANCIAL INSTITUTIONS   |          |
| ECON 8210                              | APPLIED MANAGERIAL ECONOMICS   |          |
| ECON 8230                              | BUSINESS CONDITIONS ANALYSIS   |          |
| ECON 8300                              | ECONOMETRICS   |          |
| ECON 8310/BSAD 8080                    | BUSINESS FORECASTING   |          |
| ISQA 8340                              | APPLIED REGRESSION ANALYSIS  |          |
| <b>Total Credits</b>                   |  | <b>9</b> |

## Leadership Concentration

| Code                           | Title  | Credits |
|--------------------------------|--|---------|
| Select three of the following: |  | 9       |
| BSAD 8096                      | MANAGING COLLABORATIVE ENGAGEMENT                    |         |
| BSAD 8236                      | GLOBAL BUSINESS MANAGEMENT                           |         |
| BSAD 8300                      | ORGANIZATION THEORY & DESIGN                         |         |
| BSAD 8336                      | PROJECT MANAGEMENT                                   |         |
| BSAD 8436                      | LEARNING TO LEAD                                     |         |
| BSAD 8456                      | MANAGERIAL NEGOTIATION STRATEGIES                    |         |
| COMM 8176                      | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP          |         |
| COMM 8186                      | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS |         |
| PSYC 8636                      | ORGANIZATIONAL PSYCHOLOGY                            |         |
| PSYC 9610                      | MOTIVATION & MORALE                                  |         |
| PSYC 9630                      | LEADERSHIP THEORIES AND RESEARCH                     |         |

## Logistics & Supply Chain Management Concentration

| Code            | Title                   | Credits  |
|-----------------|-------------------------|----------|
| <b>Required</b> |                         | <b>3</b> |
| BSAD 8710       | SUPPLY CHAIN MANAGEMENT |          |

**Elective Courses****6**

|                         |  |
|-------------------------|--|
| ACCT 8066               | ADVANCED MANAGERIAL ACCOUNTING                 |
| ACCT 8230               | MANAGEMENT ACCOUNTING ISSUES                   |
| BSAD 8066               | HEALTHCARE ANALYTICS FOR BUSINESS              |
| BSAD 8076               | INTERNATIONAL LOGISTICS MANAGEMENT             |
| BSAD 8096               | MANAGING COLLABORATIVE ENGAGEMENT              |
| BSAD 8176               | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT     |
| BSAD 8336               | PROJECT MANAGEMENT                             |
| BSAD 8356               | GLOBAL SOURCING AND INNOVATION                 |
| BSAD 8376               | SUPPLY CHAIN ANALYTICS                         |
| BSAD 8386               | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT |
| BSAD 8456               | MANAGERIAL NEGOTIATION STRATEGIES              |
| BSAD 8466               | SUPPLY CHAIN INTEGRATION                       |
| ECON 8210/<br>BSAD 8100 | APPLIED MANAGERIAL ECONOMICS                   |
| ECON 8216               | INDUSTRIAL ORGANIZATION                        |
| ECON 8230               | BUSINESS CONDITIONS ANALYSIS                   |
| ECON 8310/<br>BSAD 8080 | BUSINESS FORECASTING                           |
| ISQA 8016               | BUSINESS INTELLIGENCE                          |
| ISQA 8176               | DIGITAL SUPPLY CHAIN & LOGISTICS               |
| ISQA 8736               | DECISION SUPPORT SYSTEMS                       |

**Total Credits** **9****Marketing Strategy and Innovation Concentration**

| Code                                  | Title                                 | Credits  |
|---------------------------------------|---------------------------------------|----------|
| <b>Select three of the following:</b> |                                       |          |
| BSAD 8206                             | CONSULTATIVE SELLING PRINCIPLES       | <b>9</b> |
| BSAD 8326                             | SALES MANAGEMENT                      |          |
| BSAD 8345                             | CONSUMER BEHAVIOR                     |          |
| BSAD 8396                             | MARKETING ANALYTICS                   |          |
| BSAD 8430                             | STRATEGIC BRAND MANAGEMENT            |          |
| BSAD 8435                             | MARKETING INNOVATION                  |          |
| BSAD 8726                             | INNOVATION VENTURES                   |          |
| BSAD 8766                             | SELLING IN AN ENTREPRENEURIAL CONTEXT |          |

**Total Credits** **9****Monetary and Financial Economics Concentration**

| Code  | Title                              | Credits |
|---|------------------------------------|---------|
| <b>Required Course</b>                      |                                    |         |
| ECON 8080                                   | MONEY AND FINANCIAL INSTITUTIONS   | 3       |
| <b>Select six hours from the following:</b> |                                    |         |
| ECON 8310                                   | BUSINESS FORECASTING               | 3       |
| BSAD 8516                                   | SECURITY ANALYSIS & INVESTING      | 3       |
| BSAD 8540                                   | MULTINATIONAL FINANCIAL MANAGEMENT | 3       |

**Total Credits:** **9****PhD Preparatory Concentration**

| Code                                  | Title  | Credits  |
|---------------------------------------|--|----------|
| <b>Select three of the following:</b> |  |          |
| ECON 8080                             | MONEY AND FINANCIAL INSTITUTIONS             | 3        |
| ECON 8216                             | INDUSTRIAL ORGANIZATION                      | 3        |
| ECON 8310/<br>BSAD 8080               | BUSINESS FORECASTING                         | 3        |
| ECON 8326                             | NATURAL RESOURCE ECONOMICS                   | 3        |
| ECON 8616                             | INTERNATIONAL TRADE                          | 3        |
| MATH 8056                             | LINEAR ALGEBRA                               | 3        |
| MATH 8235                             | INTRODUCTION TO ANALYSIS                     | 3        |
| MATH 8356                             | ORDINARY DIFFERENTIAL EQUATIONS              | 3        |
| MATH 8746                             | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3        |
| <b>Total Credits:</b>                 |  | <b>9</b> |

**Public Policy Economics Concentration**

| Code                                  | Title   | Credits  |
|---------------------------------------|---|----------|
| <b>Select three of the following:</b> |   |          |
| ECON 8080                             | MONEY AND FINANCIAL INSTITUTIONS              | 3        |
| ECON 8210/<br>BSAD 8100               | APPLIED MANAGERIAL ECONOMICS                  | 3        |
| ECON 8216                             | INDUSTRIAL ORGANIZATION                       | 3        |
| ECON 8246                             | LABOR ECONOMICS                               | 3        |
| ECON 8326                             | NATURAL RESOURCE ECONOMICS                    | 3        |
| ECON 8336                             | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY | 3        |
| ECON 8576                             | ECONOMIC CONDITIONS ANALYSIS                  | 3        |
| ECON 8666                             | INTERNATIONAL ECONOMIC DEVELOPMENT            | 3        |
| ECON 8856                             | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT   | 3        |
| PA 8300                               | POLICY DESIGN AND IMPLEMENTATION              | 3        |
| <b>Total Credits:</b>                 |   | <b>9</b> |

**Risk Management Concentration**

| Code                         | Title  | Credits |
|------------------------------|--|---------|
| Required Courses             |  | 6       |
| BSAD 8540                    | MULTINATIONAL FINANCIAL MANAGEMENT           |         |
| BSAD 8576                    | INVESTMENT MANAGEMENT FOR FINANCIAL ANALYSTS |         |
| Select one of the following: |  | 3       |
| ACCT 8210                    | FINANCIAL ACCOUNTING THEORY                  |         |
| ACCT 8230                    | MANAGEMENT ACCOUNTING ISSUES                 |         |
| ACCT 8280                    | SEMINAR IN ACCOUNTING INFORMATION SYSTEMS    |         |
| ISQA 8580                    | SECURITY RISK MANAGEMENT AND ASSESSMENT      |         |
| ISQA 8820                    | PROJECT RISK MANAGEMENT                      |         |
| Total Credits                |  | 9       |

**Sports Management Concentration**

| Code  | Title | Credits |
|---|-------|---------|
| <b>Satisfactorily complete three of the following courses taught by Real Madrid's Graduate School</b> |       |         |
| Sports Facility Operations  |       |         |
| Sports Industry Managerial Skills & Human Resources   |       |         |

Finance in the Sports Organization

Marketing & Communications I

Entrepreneurship & Sports for Development

Marketing & Communications II

General Management

## Sustainability Concentration

| Code                         | Title  | Credits  |
|------------------------------|--|----------|
| <b>Required</b>              |  | <b>3</b> |
| ECON 8326                    | NATURAL RESOURCE ECONOMICS                                     |          |
| <b>Electives</b>             |  | <b>6</b> |
| Select two of the following: |  |          |
| BIOL/PA/GEOG 8826            | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS                |          |
| ECON 8336                    | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY                  |          |
| ECON 8666                    | INTERNATIONAL ECONOMIC DEVELOPMENT                             |          |
| ENV 840                      | Climate Change, Sustainability & Public Health                 |          |
| ENV 892                      | Public Health, Environment & Society                           |          |
| ENVN 8316                    | OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY |          |
| GEOG 8166                    | URBAN SUSTAINABILITY   |          |
| PSCI 8276                    | GLOBAL ENVIRONMENTAL POLITICS                                  |          |
| PSCI 8296/CACT 8306          | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY                     |          |
| <b>Total Credits</b>         |  | <b>9</b> |

## International Trade and Global Value Chains Concentration

| Code   | Title                                       | Credits  |
|--|---|----------|
| <b>Required Courses</b>  |   | <b>6</b> |
| ECON 8616  | INTERNATIONAL TRADE                         | 3        |
| BSAD 8710  | SUPPLY CHAIN MANAGEMENT                     | 3        |
| <b>Electives</b>   |   | <b>3</b> |
| To be selected in consultation with the Graduate Program Chair |   |          |
| ECON 8216  | INDUSTRIAL ORGANIZATION                     | 3        |
| ECON 8310/BSAD 8080  | BUSINESS FORECASTING                        | 3        |
| ECON 8666  | INTERNATIONAL ECONOMIC DEVELOPMENT          | 3        |
| ECON 8856  | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT | 3        |
| BSAD 8356  | GLOBAL SOURCING AND INNOVATION              | 3        |
| <b>Total Credits:</b>  |   | <b>9</b> |

## Academic Performance

In addition to UNO Graduate College Quality of Work Standards, Dual Degree (DD) students may repeat only once a BSAD 8-0-level course in which they receive any grade, including "W" or "I". Students earning three "C/C+" grades, or a grade of "C-" or below, will be automatically dismissed from the DD program. Dismissed students will be immediately administratively withdrawn from all courses in which they are enrolled for DD credit.

Students who have been dismissed may not enroll in any courses for DD credit in any subsequent semester or summer session until reinstatement has been granted by the Dual-Degree Program Academic Standards

Committee (DDPASC) comprised of the 2 GPC Chairs and 1 faculty member from each GPC.

Students who have been dismissed from the DD program may submit a written petition for reinstatement to the DDPASC. Students petitioning the DDPASC for reinstatement may not enroll in any course for DD credit until after the DDPASC has ruled on the petition. Upon receiving a petition for reinstatement, the DDPASC will evaluate the student's written petition for reinstatement. As part of the reinstatement petitioning process, the DDPASC reserves the right to examine the student's academic record and reserves the right to speak to any previous instructor who has taught the student; this information may be used by the DDPASC in the reinstatement decision. Information provided by previous instructors will not be shared with the student. Reinstatement is a privilege and not all students who are dismissed will be reinstated. Students who have been reinstated will serve a probationary period at the DDPASC's discretion and must satisfy the probationary conditions specified by the DDPASC. In addition to probationary conditions, reinstated students will be subject to additional reinstatement conditions as specified by the DDPASC. These reinstatement conditions will include retaking one or more courses in which the student must earn a grade of "B" (3.0) or higher (the exact grade requirements for retaken courses may in fact be higher than "B" (3.0)). Students not satisfying the probationary or reinstatement conditions will be automatically dismissed.

## Business Administration, MBA and Public Health, MPH (MBA/MPH)

The MBA/MPH dual degree program is designed for students who desire specialized expertise and training in public health management and administration. Graduates will be equipped to work in a variety of public interest arenas, commercial or industrial employment, hospitals or insurance settings, or in universities.

## Program Related Information

### Program Contacts

Business Administration:  
402.554.2448  
mba@unomaha.edu

Public Health:  
College of Public Health, UNMC  
402.559.4960  
coph@unmc.edu

**Program Website (<https://www.unmc.edu/publichealth/programs/mphdualdegree/mba-mp.html>)**

## Admissions

### Application Deadlines

- Spring 2026: October 1
- Fall 2026: June 1

### Other Requirements

- Minimum junior/senior GPA of at least 2.85 in undergraduate courses related to proposed major
- Resume (employment and educational history)
- Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list, must meet the minimum

language proficiency score requirement in order to be considered for admission.

- 80 on the TOEFL
- 6.5 on the IELTS

## Admission Criteria

- Students who have already graduated with the MBA or MPH degree are not eligible for the MBA/MPH dual degree program.
- The admission requirements for the MBA program can be found on the UNO MBA website (<https://www.unomaha.edu/college-of-business-administration/mba/>).
- Students qualifying for admission based on the standards outlined above but lacking MBA foundation courses will be granted *provisional status* until all foundation courses are completed with grades of "B" (3.0 on a 4.0 scale) or above.
- Students who are already enrolled in the MBA program at the College of Business Administration may apply for admission to the MBA/MPH dual degree program if they are in good academic standing and have not completed more than 12 semester hours within the MBA program.
- The admission requirements for the MPH program can be found on the UNMC College of Public Health – Master of Public Health website (<http://www.unmc.edu/publichealth/programs/mphdualdegree/mba-mph.html>).
- Students who are already enrolled in the MPH program at the College of Public Health may apply for admission to the MBA/MPH dual degree program if their GPA is at least 3.0 and have not completed more than 18 semester hours toward the MPH program.

## Dual Admission

Applicants must complete the application process for each of the programs, MBA and MPH, separately, and MUST meet the requirements for each program. The student must indicate that he or she is applying for admission to the MBA/MPH dual degree program on the application.

Applications are evaluated by each degree program in separate admissions processes. It is possible that an applicant will be admitted to one program and not the other. In this case the applicant can matriculate into the accepted program, but not participate in the dual degree option.

## Degree Requirements

### Foundation Courses

A student must complete the foundation courses listed below prior to, or concurrent with enrollment in the first MBA course. Courses successfully completed A, B, or C (2.0 on a 4.0 scale) grades in the student's undergraduate program are considered as sufficient preparation. Otherwise, the student must complete the foundation requirements with a grade of B (3.0 on a 4.0 scale) or above.

### MBA Foundation Courses

| Code  | Title   | Credits |
|---|---|---------|
| <b>Accounting</b>   |   |         |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS           | 3       |
| Or one year of Principles of Accounting at the undergraduate level: |   | 6       |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I (or its equivalent)  |         |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II (or its equivalent) |         |
| <b>Economics</b>  |   |         |
| ECON 1200   | SURVEY OF ECONOMICS                             | 3       |

|  |   |
|--|---|
| Or Micro-economics and Macro-economics at the undergraduate level: | 6 |
|--|---|

|           |   |  |
|-----------|---|--|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO) (or its equivalent) |  |
|-----------|---|--|

|           |   |  |
|-----------|---|--|
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) (or its equivalent) |  |
|-----------|---|--|

### Mathematics

College Algebra or higher with the following courses at UNO:

|              |                              |   |
|--------------|------------------------------|---|
| MATH 1220    | COLLEGE ALGEBRA              | 3 |
| or MATH 1300 | COLLEGE ALGEBRA WITH SUPPORT |   |
| or MATH 1320 | COLLEGE ALGEBRA              |   |

### English Composition

The following is a required course for all international students who are required to take the TOEFL:

|           |                       |   |
|-----------|-----------------------|---|
| ENGL 1150 | ENGLISH COMPOSITION I | 3 |
|-----------|-----------------------|---|

### Statistics

Select one of the following:

|           |                                   |   |
|-----------|-----------------------------------|---|
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS | 3 |
|-----------|-----------------------------------|---|

or

|                     |                 |  |
|---------------------|-----------------|--|
| CPH 506 or BIOS 806 | Biostatistics I |  |
|---------------------|-----------------|--|

Or one semester of undergraduate statistics

The degree requirements for the dual MBA and MPH program include the completion of a minimum of **60 semester hours** of graduate credit beyond MBA foundation courses identified at the time of admission. These hours will be completed as follows. Each student admitted to the dual degree option will, within the first semester of their enrollment, file a plan of study in close consultation with a graduate advisor.

### Core Courses: 37 credit hours

- MBA: 22 hours required
- MPH: 15 hours required

### MBA Core Courses (22 hours)

| Code      | Title  | Credits |
|-----------|--|---------|
| BSAD 8060 | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP (Required as the first graduate course for all MBA students) | 2       |
| BSAD 8000 | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY   | 2       |
| BSAD 8040 | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION                                 | 2       |
| BSAD 8150 | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS   | 2       |
| BSAD 8210 | ACCOUNTING: DECISIONS & CONSEQUENCES   | 2       |
| BSAD 8250 | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES                                 | 2       |
| BSAD 8420 | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS   | 2       |
| BSAD 8630 | FINANCE: UNDERSTANDING CAPITAL AND CASH  | 2       |
| BSAD 8700 | BUSINESS ANALYTICS: MAKING SENSE OF DATA   | 2       |
| BSAD 8720 | STRATEGIC FINANCIAL MANAGEMENT   | 2       |
| BSAD 8830 | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE   | 2       |

|                      |           |
|----------------------|-----------|
| <b>Total Credits</b> | <b>22</b> |
|----------------------|-----------|

## MPH Core Courses (15 hours)

| Code                 | Title                         | Credits   |
|----------------------|-------------------------------|-----------|
| CPH 500 or HPRO 830  | Foundations of Public Health  | 3         |
| CPH 504 or EPI 820   | Epidemiology in Public Health | 3         |
| CPH 506 or BIOS 806  | Biostatistics I               | 3         |
| CPH 514              | Planning and Evaluation       | 3         |
| CPH 539              | Leadership and Advocacy       | 3         |
| <b>Total Credits</b> |                               | <b>15</b> |

## Capstone Courses & Service Learning (8 credit hours)

BSAD 8800 **MBA Project-Focused Capstone** (2 credits) The project-focused capstone course for the Master's of Business Administration (MBA) degree will focus on students completing a service-learning consulting project for a non-profit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the Capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class. Not open to non-degree graduate students.

- Students will complete the MPH program service learning course (CPH 528: Applied Practice Experience for MPH Students, 3 credit hours)
- Students will complete the MPH program capstone course (CPH 529: MPH Capstone Experience, 3 credit hours) with a grade of B (3.0) or higher.

Students must complete all core and concentration area courses, be within 12 hours of graduation (including 6 hours of service learning/capstone experience), and be in good academic standing to start the Service Learning/ MPH Capstone Experience.

## Elective and Concentration Courses (15 credit hours)

MBA/MPH students qualifying for an MBA core course waiver based on their undergraduate major(s) or previous degree(s) will be required to complete a **Directed Elective** in the waived field(s). The waived core course will not satisfy degree requirements. For the list of approved directed electives please consult with your advisor.

MBA/MPH students are not eligible to choose a concentration area for the MBA program. Instead, they will have the option to complete a concentration in biostatistics, emergency preparedness, epidemiology, or public health administration and policy at UNMC. If a student is completing one of these concentration, they will also need to complete the corresponding electives for that concentration.

### Biostatistics Concentration

| Code                 | Title                           | Credits   |
|----------------------|---------------------------------|-----------|
| CPH 517 - BIOS 835   | Design of Medical Studies       | 3         |
| CPH 651 - BIOS 810   | Introduction to SAS Programming | 3         |
| CPH 652 - BIOS 818   | Biostatistical Methods II       | 3         |
| CPH 653 - BIOS 823   | Categorical Data Analysis       | 3         |
| <b>Total Credits</b> |                                 | <b>12</b> |

Students completing the MBA/MPH with a concentration in biostatistics will transfer a maximum of nine (9) hours of coursework from the MPH courses listed below to fulfill elective requirements for the MBA program. Minimum "B" (3.0 on a 4.0 scale) grade required in each course to be transferred. Transfer and application of the "professional" hours from UNMC to the UNO

MBA program will take place upon completion of the MPH degree. These courses are:

| Code    | Title                           | Credits |
|---------|---------------------------------|---------|
| CPH 517 | Design of Medical Studies       | 3       |
| CPH 651 | Introduction to SAS Programming | 3       |
| CPH 652 | Biostatistical Methods II       | 3       |
| CHP 653 | Categorical Data Analysis       | 3       |

### Emergency Preparedness Concentration

| Code                 | Title   | Credits   |
|----------------------|---|-----------|
| CPH 550 - EPI 810    | Emergency Preparedness: Prevention            | 3         |
| CPH 553 - EPI 813    | Emergency Preparedness: Response              | 3         |
| CPH 554 - EPI 814    | Emergency Preparedness: Response and Recovery | 3         |
| CPH 631 - EPI 811    | Emergency Preparedness: Protection            | 3         |
| <b>Total Credits</b> |   | <b>12</b> |

Students completing the MBA/MPH with a concentration in emergency preparedness will transfer a maximum of nine (9) hours of coursework from the MPH courses listed below to fulfill elective requirements for the MBA program. Minimum "B" (3.0 on a 4.0 scale) grade required in each course to be transferred. Transfer and application of the "professional" hours from UNMC to the UNO MBA program will take place upon completion of the MPH degree. These courses are:

| Code              | Title                              | Credits |
|-------------------|------------------------------------|---------|
| CPH 550 - EPI 810 | Emergency Preparedness: Prevention | 3       |
| CPH 553 - EPI 813 | Emergency Preparedness: Response   | 3       |
| CPH 631 - EPI 811 | Emergency Preparedness: Protection | 3       |

### Epidemiology Concentration

| Code                                 | Title  | Credits   |
|--------------------------------------|--|-----------|
| CPH 621 - EPI 821                    | Applied Epidemiology   | 3         |
| CPH 628 - EPI 845                    | Epidemiologic Methods  | 3         |
| CPH 650 - BIOS 808                   | Biostatistics II   | 3         |
| CPH 651 - BIOS 810                   | Introduction to SAS Programming                                      | 3         |
| Electives (6 Cr. Hrs. 1 GE and 1 ID) |  |           |
| CPH 620                              | Chronic Disease Epidemiology   |           |
| CPH 753                              | Cancer Epidemiology  |           |
| CPH 623                              | Infectious Disease Epidemiology: Theory and Methods                  |           |
| CPH 723                              | Epidemiological Methods in Infectious Disease Outbreak Investigation |           |
| <b>Total Credits</b>                 |  | <b>12</b> |

Students completing the MBA/MPH with a concentration in epidemiology will transfer a maximum of nine (9) hours of coursework from the MPH courses listed below to fulfill elective requirements for the MBA program.

Minimum "B" (3.0 on a 4.0 scale) grade required in each course to be transferred. Transfer and application of the "professional" hours from UNMC to the UNO MBA program will take place upon completion of the MPH degree. These courses are:

| Code               | Title                 | Credits |
|--------------------|-----------------------|---------|
| CPH 621 - EPI 821  | Applied Epidemiology  | 3       |
| CPH 628 - EPI 845  | Epidemiologic Methods | 3       |
| CPH 650 - BIOS 808 | Biostatistics II      | 3       |



## Public Health Administration and Policy Concentration

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| CPH 502              | Health Services Administration                     | 3         |
| CPH 562              | Human Resources Management in Health Organizations | 3         |
| CPH 565              | Health Care Finance                                | 3         |
| CPH 566              | Health Policy                                      | 3         |
| CPH 580              | Health Care Organizational Theory and Behavior     | 3         |
| <b>Total Credits</b> |  | <b>15</b> |

Students completing the MBA/MPH with a concentration in public health administration and policy will transfer a maximum of nine (9) hours of coursework from the MPH courses listed below to fulfill elective requirements for the MBA program. Minimum "B" (3.0 on a 4.0 scale) grade required in each course to be transferred. Transfer and application of the "professional" hours from UNMC to the UNO MBA program will take place upon completion of the MPH degree. These courses are:

| Code    | Title                          | Credits |
|---------|--------------------------------|---------|
| CPH 502 | Health Services Administration | 3       |
| CPH 565 | Health Care Finance            | 3       |
| CPH 566 | Health Policy                  | 3       |

## Other MBA Requirements

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

## Academic Performance

Foundation courses cannot be used to meet the 60 semester-hour requirement for the MBA/MPH joint degree.

## MBA Program Two Strikes Rule

A UNO MBA student may enroll only **twice** in each MBA course. If the class is not successfully completed on the second attempt then the student will be dismissed from the MBA program. **An enrollment is defined as being enrolled in the course after the last day to withdraw via MavLINK and receive a 100% refund. The last day for withdrawal will be as stated in the current academic calendar for a full semester course (3 credits); for an eight-week course (2 credits) the last day for withdrawal will be the third day (including the start date) of the course as designated in MavLINK.**

## MBA Program Academic Performance

Students earning a third grade of "C+" or lower (or any single grade below "C" (1.67 on a 4.0 scale)) will be automatically dismissed from the MBA program. Dismissed students will be immediately administratively withdrawn from all courses in which they are enrolled for MBA credit. Students who have been dismissed may not enroll in any courses for MBA credit in any subsequent semester or summer session until reinstatement has been granted by the College of Business Administration's Graduate Program Council (CBA GPC) and graduate dean.

Students who have been dismissed from the MBA program may submit a written petition for reinstatement to the CBA GPC. Students who have petitioned the CBA GPC for reinstatement may not enroll in any courses for MBA credit. Upon receiving a petition for reinstatement, the CBA GPC will evaluate the student's written petition for reinstatement. As part of the reinstatement petitioning process, the CBA GPC reserves the right to examine the student's academic record and reserves the right to speak to any previous instructor who has taught the student and this information

may be used by the CBA GPC in the reinstatement decision. Information provided by previous instructors will not be shared with the student. Reinstatement is a privilege and not all students who are dismissed will be reinstated. Students who have been reinstated will serve a probationary period of the CBA GPC's discretion and must satisfy the probationary conditions specified by the CBA GPC. In addition to probationary conditions, reinstated students will be subject to additional reinstatement conditions as specified by the CBA GPC. These reinstatement conditions will include retaking one or more courses in which the student must earn a grade of "B" (3.0) or higher (the exact grade requirements for retaken courses may in fact be higher than "B" 3.0). Students not achieving the probationary or reinstatement conditions will be automatically dismissed.

## GPC Will Consider Grades Earned in Related Courses

When making decisions based on Quality of Work Standards issues, the CBA GPC will consider the initial grade(s) received in a course as well as the most recent grade received for the course. This approach differs from the method used to calculate GPA in a student's MavLINK file, where the most recent grade replaces the grade received in the previous attempt.

## Student Responsibilities

- Each student admitted to graduate studies is responsible for knowing the procedures and regulations of the Graduate College.
- Each student admitted to the dual degree option will, within the first semester of their enrollment, file a plan of study in close consultation with a graduate advisor.
- Once admitted to the MBA/MPH dual degree program, the MBA Director in the College of Business Administration will oversee the student's progress in the MBA curriculum, and faculty in the College of Public Health will oversee the student's progress in the MPH curriculum.
- Each student has to complete both the MBA and MPH orientations.
- Students must maintain academic eligibility as defined by each degree program.

## Business Administration, MBA and UNMC PharmD (MBA/PharmD)

The MBA/PharmD dual degree program is designed for pharmacy students who desire to possess both clinical skills and an understanding of business management, leadership, and strategic decision making. Graduates will be prepared to anticipate change and to make decisions that balance patient outcomes and the overall cost of care.

## Program Related Information

### Program Contacts

Business Administration:  
402.554.2448  
mba@unomaha.edu

College of Pharmacy:  
402.559.4333  
drew.prescott@unmc.edu  
mandifishler@unmc.edu (lmullins@unmc.edu)

**Program Website (<https://www.unmc.edu/pharmacy/programs/pharmd/pharmd-mba.html>)**

## Admissions

### Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1 (Limited availability for international applicants)
- Fall 2026: July 1 (June 1 for international applicants)

### Program Specific Requirements

#### College of Pharmacy Students

To be eligible for enrollment in the UNO MBA program, the UNMC student must:

- Be in the top 50% of his/her pharmacy school class;
- Secure approval from the UNMC COP associate dean of student affairs;
- Secure approval from the MBA advisor;
- Meet UNO MBA admission requirements including the submission of required transcripts, test scores, and resume;
- Complete UNO's application for graduate admission;
- Applicants that did not complete a baccalaureate degree prior to enrollment in the PharmD program must have completed a minimum of ninety (90) college level credits to qualify for admission;
- Junior/Senior GPA calculation will be based on the most recent sixty (60) credits including PharmD credits.

#### MBA Program Specific Requirements

Admission may be granted to an applicant whose record includes at least the following:

- 2.85 junior/senior grade point average;
- **Resume** (employment and educational history);
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

### Admission Criteria

- Students who have already graduated with the MBA or PharmD degree are not eligible for the MBA/PharmD dual degree program.
- Students qualifying for admission based on the standards outlined above but lacking MBA foundation courses will be granted provisional status until all foundation courses are completed with grades of "B" (3.0 on a 4.0 scale) or above.

## Degree Requirements

### MBA Foundation Courses

| Code  | Title                                 | Credits |
|---|---------------------------------------|---------|
| <b>Accounting</b>   |                                       |         |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3       |
| Or one year of Principles of Accounting at the undergraduate level: |                                       | 6       |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I            |         |

|   |                                 |   |
|---|---------------------------------|---|
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II     |   |
| <b>Economics</b>  |                                 |   |
| ECON 1200   | SURVEY OF ECONOMICS             | 3 |
| Or Micro-economics and Macro-economics at the undergraduate level:  |                                 | 6 |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) |   |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) |   |
| <b>English Composition</b>  |                                 |   |
| A required course for all international students entering the MBA program who are required to take the TOEFL: |                                 |   |
| ENGL 1150   | ENGLISH COMPOSITION I           |   |
| <b>Foundation Courses cannot be used to meet the degree requirements for the MBA program.</b>                 |                                 |   |

### MBA Core Course Requirements (22 hours)

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| BSAD 8060            | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP                              | 2         |
| BSAD 8000            | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2         |
| BSAD 8040            | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION | 2         |
| BSAD 8150            | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2         |
| BSAD 8210            | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2         |
| BSAD 8250            | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2         |
| BSAD 8420            | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2         |
| BSAD 8630            | FINANCE: UNDERSTANDING CAPITAL AND CASH                                | 2         |
| BSAD 8700            | BUSINESS ANALYTICS: MAKING SENSE OF DATA                               | 2         |
| BSAD 8720            | STRATEGIC FINANCIAL MANAGEMENT   | 2         |
| BSAD 8830            | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE                 | 2         |
| <b>Total Credits</b> |  | <b>22</b> |

### Elective Courses (9 hours)

Students completing the MBA/PharmD program will transfer a maximum of nine (9) hours of coursework from the pharmacy courses listed below to fulfill elective requirements for the MBA program. Minimum of "B" (3.0 on a 4.0 scale) grade required in each course to be transferred.

Transfer and application of the "professional" hours from UNMC to the UNO MBA program will take place upon completion of the PharmD degree. The courses are:

| Code                 | Title                           | Credits  |
|----------------------|---------------------------------|----------|
| PHPR 550             | Legal and Ethical Principles I  | 2        |
| PHPR 552             | Pharmaceutical Care I           | 2        |
| PHPR 556             | Pharmaceutical Care II          | 2        |
| PHPR 560             | Pharmacy and Health Care        | 3        |
| PHPR 660             | Legal and Ethical Principles II | 2        |
| PHPR 662             | Pharmacy Practice Management    | 3        |
| <b>Total Credits</b> |                                 | <b>9</b> |

MBA/PharmD students qualifying for an MBA core course waiver based on their undergraduate major(s) or previous degree(s) will be required to

complete a Directed Elective in the waived field in addition to the hours transferred from UNMC. The waived core course will not satisfy degree requirements. Please consult with your advisor for a complete list of approved directed electives.

MBA/PharmD students are not eligible to choose a concentration area for the MBA program.

## Exit Requirement

**BSAD 8800-MBA Project-Focused Capstone** (2 credits) (taken within the last nine (9) hours or the final semester of the program). The project-focused capstone course for the Master's of Business Administration (MBA) degree will focus on the students completing a service-learning consulting project for a nonprofit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the Capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class. Not open to non-degree graduate students.

| <b>Code</b> | <b>Title</b>                 | <b>Credits</b> |
|-------------|------------------------------|----------------|
| BSAD 8800   | MBA PROJECT-FOCUSED CAPSTONE | 2              |

## Other MBA Requirements

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

## Academic Performance MBA Program Two Strikes Rule

A UNO MBA student may enroll only **twice** in each MBA course. If the class is not successfully completed on the second attempt then the student will be dismissed from the MBA program. An enrollment is defined as being enrolled in the course after the last day to withdraw via MavLINK and receive a 100% refund. The last day for withdrawal will be as stated in the current academic calendar for a full semester course (3 credits); for an eight-week course (2 credits) the last day for withdrawal will be the third day (including the start date) of the course as designated in MavLINK.

## MBA Program Academic Performance

Students earning a third grade of "C+" or lower (or any single grade below "C" 1.67 on a 4.0 scale) will be automatically dismissed from the MBA program. Dismissed students will be immediately administratively withdrawn from all courses in which they are enrolled for MBA credit. Students who have been dismissed may not enroll in any courses for MBA credit in any subsequent semester or summer session until reinstatement has been granted by the College of Business Administration's Graduate Program Council (CBA GPC) and graduate dean.

Students who have been dismissed from the MBA program may submit a written petition for reinstatement to the CBA GPC. Students who have petitioned the CBA GPC for reinstatement may not enroll in any courses for MBA credit. Upon receiving a petition for reinstatement, the CBA GPC will evaluate the student's written petition for reinstatement. As part of the reinstatement petitioning process, the CBA GPC reserves the right to examine the student's academic record and reserves the right to speak to any previous instructor who has taught the student and this information may be used by the CBA GPC in the reinstatement decision. Information provided by previous instructors will not be shared with the student. Reinstatement is a privilege and not all students who are dismissed will be reinstated. Students who have been reinstated will serve a probationary period of the CBA GPC's discretion and must satisfy the probationary

conditions specified by the CBA GPC. In addition to probationary conditions, reinstated students will be subject to additional reinstatement conditions as specified by the CBA GPC. These reinstatement conditions will include retaking one or more courses in which the student must earn a grade of "B" (3.0) or higher (the exact grade requirements for retaken courses may in fact be higher than "B" (3.0). Students not achieving the probationary or reinstatement conditions will be automatically dismissed.

## CBA GPC Will Consider Grades Earned in Repeat Courses

When making decisions based on Quality of Work Standards issues, the CBA GPC will consider the initial grade(s) received in a course as well as the most recent grade received for the course. This approach differs from the method used to calculate GPA in a student's MavLINK file, where the most recent grade replaces the grade received in the previous attempt.

## Student Responsibilities

- Each student admitted to graduate studies is responsible for knowing the procedures and regulations of the Graduate College.
- Each student admitted to the MBA/PharmD will, within the first semester of their enrollment in the MBA program, file a plan of study in close consultation with a graduate advisor.
- Once admitted to the MBA/PharmD dual degree program, the MBA director in the College of Business Administration will oversee the student's progress in the MBA curriculum, and faculty in the College of Pharmacy will oversee the student's progress in the PharmD curriculum.
- Each student has to complete the MBA orientation.
- Students must maintain academic eligibility as defined by each degree program.

## Business Administration, MBA and UNMC Doctor of Physical Therapy

The health care industry is an ever-changing landscape, requiring those in leadership positions to navigate complex issues associated with patient care, operations, change management and public policy, to name a few. Allied health professionals comprise approximately 60 percent of the total health care workforce, and together provide the fundamental framework critical to the success of the American health care system. Students jointly pursuing education in an allied health profession and in business are uniquely prepared not only for health care practice, but also for taking on key decision-making roles in health care organizations.

## Program Related Information Program Contacts

402.554.2448  
mba@unomaha.edu

CAHP Enrollment Management & Student Affairs  
cahpadmissions@unmc.edu (:cahpadmissions@unmc.edu)  
402.559.6673

**Program Website (<https://www.unmc.edu/alliedhealth/academics/programs/dual-mba/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1 (Limited availability for international applicants)
- Fall 2026: July 1 (June 1 for international applicants)

## Other Requirements

- Junior/senior GPA of at least 2.85 (on a 4.0 point scale)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** (employment and educational history)
- Applicants must be admitted to a graduate degree program in the CAHP and have completed no more than the first year of that program.

## Degree Requirements

### MBA Foundation Courses

| Code  | Title                                 | Credits |
|---|---------------------------------------|---------|
| <b>Accounting</b>   |                                       |         |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3       |
| Or one year of Principles of Accounting at the undergraduate level:   |                                       | 6       |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I            |         |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II           |         |
| <b>Economics</b>  |                                       |         |
| ECON 1200   | SURVEY OF ECONOMICS                   | 3       |
| Or Micro-economics and Macro-economics at the undergraduate level:  |                                       | 6       |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO)       |         |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO)       |         |
| <b>English Composition</b>  |                                       |         |
| A required course for all international students entering the MBA program who are required to take the TOEFL: |                                       |         |
| ENGL 1150   | ENGLISH COMPOSITION I                 | 3       |
| <b>Foundation Courses cannot be used to meet the degree requirements for the MBA program.</b>                 |                                       |         |

### MBA Core Course Requirements (22 hours)

| Code      | Title  | Credits |
|-----------|--|---------|
| BSAD 8060 | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP                              | 2       |
| BSAD 8000 | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2       |
| BSAD 8040 | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION | 2       |
| BSAD 8150 | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2       |
| BSAD 8210 | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2       |
| BSAD 8250 | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2       |

|                      |   |           |
|----------------------|---|-----------|
| BSAD 8420            | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                      | 2         |
| BSAD 8630            | FINANCE: UNDERSTANDING CAPITAL AND CASH <sup>1</sup>                | 2         |
| BSAD 8700            | BUSINESS ANALYTICS: MAKING SENSE OF DATA                            | 2         |
| BSAD 8720            | STRATEGIC FINANCIAL MANAGEMENT <sup>2</sup>                         | 2         |
| BSAD 8830            | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE <sup>3</sup> | 2         |
| <b>Total Credits</b> |   | <b>22</b> |

<sup>1</sup> BSAD 8630 (prereq: completion of BSAD 8150 and BSAD 8210)

<sup>2</sup> BSAD 8720 (prereq: completion of BSAD 8630)

<sup>3</sup> BSAD 8830 (prereq: completion of BSAD 8150 and BSAD 8210)

## Exit Requirement

**BSAD 8800-MBA Project-Focused Capstone** (2 credits) The project-focused capstone course for the Master's of Business Administration (MBA) degree will focus on the students completing a health care-related project for a nonprofit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class. Not open to non-degree graduate students.

| Code      | Title                        | Credits |
|-----------|------------------------------|---------|
| BSAD 8800 | MBA PROJECT-FOCUSED CAPSTONE | 2       |

## Elective Courses (9 hours)

Students completing the MBA/DPT program will transfer nine hours of coursework from the courses listed below to fulfill elective requirements for the MBA program. Minimum of "B" (3.0 on a 4.0 scale) grade required in each course to be transferred.

Transfer and application of the "professional" hours from UNMC to the UNO MBA program will take place upon completion of the DPT degree. The courses are:

| Code                 | Title  | Credits  |
|----------------------|--|----------|
| PHYT 622 & 722       | Practice Management Skills for the Physical Therapist I and II | 3        |
| PHYT 640             | Critical Inquiry I   | 3        |
| PHYT 740             | Critical Inquiry II  | 3        |
| <b>Total Credits</b> |  | <b>9</b> |

MBA/DPT students who have earned undergraduate or graduate degrees in accounting, economics, finance, management, management information systems, or marketing, the MBA core course(s) corresponding to the student's undergraduate major(s) or degree(s) will be waived and the student will complete a directed elective in the waived field in addition to the hours transferred from UNMC. The waived core course will not satisfy degree requirements. Please consult with your advisor for a complete list of approved directed electives.

MBA/DPT students are not eligible to choose an MBA concentration because UNMC CAHP courses will comprise all electives.

## Other MBA Requirements

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students

must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

## Business Administration, MBA and UNMC Doctor of Dental Surgery (MBA/DDS)

Dentistry professionals equipped with both clinical expertise and a solid grasp of business management, leadership, and strategic decision-making will be well-prepared to tackle the challenges of the modern healthcare environment. Students jointly pursuing education in the dental profession and in business are thoroughly prepared to manage a practice efficiently, make informed financial decisions, and lead with confidence in the healthcare industry.

## Program Related Information

### Program Contact

Business Administration:  
402.554.2448  
mba@unomaha.edu

College of Dentistry:  
Dr. Sarah Lowman  
402.472.1590  
slowman@unmc.edu

**Program Website (<https://www.unmc.edu/dentistry/programs/dental/dual-degree-programs.html>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Program-Specific Requirements

#### Application Deadlines (Spring 2026, Summer 2026, and Fall 2026)

- Spring: November 1
- Summer: April 1 (Limited availability for international applicants)
- Fall: July 1 (June 1 for international applicants)

### Other Requirements

- Junior/senior GPA of at least 2.85 (on a 4.0 point scale)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** (employment and educational history)

## Degree Requirements

### MBA Foundation Courses

| Code              | Title                                 | Credits |
|-------------------|---------------------------------------|---------|
| <b>Accounting</b> |                                       |         |
| BSAD 8110         | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3       |

Or one year of Principles of Accounting at the undergraduate level:

|           |                             |  |
|-----------|-----------------------------|--|
| ACCT 2010 | PRINCIPLES OF ACCOUNTING I  |  |
| ACCT 2020 | PRINCIPLES OF ACCOUNTING II |  |

### Economics

|           |                     |   |
|-----------|---------------------|---|
| ECON 1200 | SURVEY OF ECONOMICS | 3 |
|-----------|---------------------|---|

Or Micro-economics and Macro-economics at the undergraduate level:

|           |                                 |  |
|-----------|---------------------------------|--|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO) |  |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO) |  |

### English Composition

A required course for all international students entering the MBA program who are required to take the TOEFL:

|           |                       |   |
|-----------|-----------------------|---|
| ENGL 1150 | ENGLISH COMPOSITION I | 3 |
|-----------|-----------------------|---|

**Foundation Courses cannot be used to meet the degree requirements for the MBA program.**

## MBA Core Course Requirements (22 hours)

| Code      | Title  | Credits |
|-----------|--|---------|
| BSAD 8060 | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP                              | 2       |
| BSAD 8000 | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2       |
| BSAD 8040 | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION | 2       |
| BSAD 8150 | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2       |
| BSAD 8210 | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2       |
| BSAD 8250 | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2       |
| BSAD 8420 | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2       |
| BSAD 8630 | FINANCE: UNDERSTANDING CAPITAL AND CASH <sup>1</sup>                   | 2       |
| BSAD 8700 | BUSINESS ANALYTICS: MAKING SENSE OF DATA                               | 2       |
| BSAD 8720 | STRATEGIC FINANCIAL MANAGEMENT <sup>2</sup>                            | 2       |
| BSAD 8830 | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE <sup>3</sup>    | 2       |

**Total Credits** **22**

<sup>1</sup> BSAD 8630 (prereq: completion of BSAD 8150 and BSAD 8210)

<sup>2</sup> BSAD 8720 (prereq: completion of BSAD 8630)

<sup>3</sup> BSAD 8830 (prereq: completion of BSAD 8150 and BSAD 8210)

## Exit Requirement

**BSAD 8800-MBA Project-Focused Capstone** (2 credits) The project-focused capstone course for the Master's of Business Administration (MBA) degree will focus on the students completing a health care-related project for a nonprofit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class. Not open to non-degree graduate students.



| Code      | Title                        | Credits |
|-----------|------------------------------|---------|
| BSAD 8800 | MBA PROJECT-FOCUSED CAPSTONE | 2       |

## Elective Courses (9 hours)

Students completing the MBA/DDS program will transfer nine hours of coursework from the courses listed below to fulfill elective requirements for the MBA program. Minimum of "B" (3.0 on a 4.0 scale) grade required in each course to be transferred.

Transfer and application of the "professional" hours from UNMC to the UNO MBA program will take place upon completion of the DDS degree. The courses are:

| Code                 | Title                                | Credits  |
|----------------------|--------------------------------------|----------|
| ORBI 581             | Patient Communication and Management | 2        |
| DENT 615             | Topics in Dental Public Health       | 1        |
| ORBI 535             | Critical Thinking                    | 1        |
| ADRS 687             | Seminar in Practice Transition       | 2        |
| ADRS 610             | Practice Management                  | 3        |
| <b>Total Credits</b> |                                      | <b>9</b> |

MBA/DDS students who have earned undergraduate or graduate degrees in accounting, economics, finance, management, management information systems, or marketing, the MBA core course(s) corresponding to the student's undergraduate major(s) or degree(s) will be waived and the student will complete a directed elective in the waived field in addition to the hours transferred from UNMC. The waived core course will not satisfy degree requirements. Please consult with your advisor for a complete list of approved directed electives.

MBA/DDS students are not eligible to choose an MBA concentration because the DDS courses will comprise all electives.

## Other MBA Requirements

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

# Business Administration, MBA and UNMC Nursing (MBA/MSN)

The MBA/MSN dual degree program is designed for nursing students who desire to possess both clinical skills and a clear understanding of business management, leadership, and strategic decision making. Graduates will be prepared to anticipate change and to make decisions that balance patient outcomes and the overall cost of care.

## Program Related Information

### Program Contacts

Business Administration:  
402.554.2448  
mba@unomaha.edu

College of Nursing:  
Shelly Amsberry, EdD, RN  
Assistant Professor, UNMC College of Nursing  
s (tbarry@unmc.edu)helly.amsberry@unmc.edu (shelly.amsberry@unmc.edu)

**Program Website (<https://www.unmc.edu/nursing/educational-programs/graduate/msn-mba.html>)**

## Admissions

### Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1 (Limited availability for international applicants)
- Fall 2026: July 1 (June 1 for international applicants)

### Admission Criteria

- Students who have already graduated with the MBA or MSN degree are not eligible for the MBA/MSN dual degree program.
- Students must complete separate applications for the MBA and MSN programs and must meet the requirements for each program.
- The admission requirements for the MSN program can be found on the UNMC MSN (<https://www.unmc.edu/nursing/admissions/admissions-information/admissions-information-msn-pmc.html>) website.
- CON students seeking admission to the MBA portion of the dual degree program must complete the UNO Application for Graduate Admission (<https://www.unomaha.edu/graduate-studies/prospective-students/application-process.php>) and request admission to the MBA/MSN program.
- Students who are already enrolled in the Nurse Leader concentration in the CON MSN program may apply for admission to the MBA/MSN dual degree program if their GPA is at least 3.0 and they have not yet completed more than **18 semester hours** towards the MSN program.
- Students who are already enrolled in the UNO MBA program may apply for admission to the MBA/MSN dual degree program if they are in good academic standing and have not completed more than **12 semester hours** towards the MBA program.
- Students qualifying for admission based on the standards outlined above but lacking MBA foundation courses will be granted provisional status until all foundation courses are completed with grades of "B" (3.0 on a 4.0 scale) or above.

### MBA Program Specific Requirements

Admission may be granted to an applicant whose record includes at least the following:

- 2.85 junior/senior grade point average
- **Resume** (employment and educational history)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - **550; Paper-based TOEFL:** Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

## Degree Requirements

### MBA Foundation Courses

| Code  | Title                                 | Credits |
|---|---------------------------------------|---------|
| <b>Accounting</b>   |                                       |         |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3       |
| Or one year of Principles of Accounting at the undergraduate level: |                                       | 6       |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I            |         |

|   |                                 |   |
|---|---------------------------------|---|
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II     |   |
| <b>Economics</b>  |                                 |   |
| ECON 1200   | SURVEY OF ECONOMICS             | 3 |
| Or Micro-economics and Macro-economics at the undergraduate level:  |                                 | 6 |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) |   |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO) |   |
| <b>English Composition</b>  |                                 |   |
| A required course for all international students entering the MBA program who are required to take the TOEFL: |                                 |   |
| ENGL 1150   | ENGLISH COMPOSITION I           | 3 |
| <b>Mathematics</b>  |                                 |   |
| College Algebra or higher with the following courses at UNO:  |                                 |   |
| MATH 1220   | COLLEGE ALGEBRA                 | 3 |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT    |   |
| or MATH 1320  | COLLEGE ALGEBRA                 |   |
| <b>Foundation Courses cannot be used to meet the degree requirements for the MBA program.</b>                 |                                 |   |

## MBA Core Course Requirements (20 hours)

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| BSAD 8060            | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP <sup>5</sup>                 | 2         |
| BSAD 8000            | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2         |
| BSAD 8040            | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION | 2         |
| BSAD 8150            | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2         |
| BSAD 8210            | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2         |
| BSAD 8420            | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2         |
| BSAD 8630            | FINANCE: UNDERSTANDING CAPITAL AND CASH <sup>2</sup>                   | 2         |
| BSAD 8700            | BUSINESS ANALYTICS: MAKING SENSE OF DATA                               | 2         |
| BSAD 8720            | STRATEGIC FINANCIAL MANAGEMENT <sup>3</sup>                            | 2         |
| BSAD 8830            | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE <sup>4</sup>    | 2         |
| <b>Total Credits</b> |  | <b>20</b> |

<sup>1</sup> BSAD 8060 This is the first graduate-level course MBA students have to complete.

<sup>2</sup> BSAD 8630 (prereq: completion of BSAD 8150 and BSAD 8210)

<sup>3</sup> BSAD 8720 (prereq: completion of BSAD 8630)

<sup>4</sup> BSAD 8830 (prereq: completion of BSAD 8150 and BSAD 8210)

## Exit Requirement

BSAD 8800-MBA Project-Focused Capstone (2 credits) The project-focused capstone course for the Master's of Business Administration (MBA) degree will focus on the students completing a health care-related project for a nonprofit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the Capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program.

Permission from MBA advisor is required to register for this class. Not open to non-degree graduate students.

| Code      | Title                        | Credits |
|-----------|------------------------------|---------|
| BSAD 8800 | MBA PROJECT-FOCUSED CAPSTONE | 2       |

## Elective Courses (9 hours)

Students completing the MBA/MSN program will transfer nine hours of coursework from the nursing courses listed below to fulfill elective requirements for the MBA program. Minimum of "B" (3.0 on a 4.0 scale) grade required in each course to be transferred.

Transfer and application of the "professional" hours from UNMC to the UNO MBA program will take place upon completion of the MSN degree. The courses are:

| Code                 | Title   | Credits   |
|----------------------|---|-----------|
| NRSRG 604            | Foundations of Population Based Health Policy | 3         |
| NRSRG 608            | Transformational Leadership                   | 3         |
| NRSRG 620            | Leading Care Systems as Nurse Managers        | 2         |
| NRSRG 624            | Evaluating Care Systems for Nurse Managers    | 3         |
| <b>Total Credits</b> |   | <b>11</b> |

MBA/MSN students who have earned undergraduate or graduate degrees in accounting, economics, finance, management, management information systems, or marketing, the MBA core course(s) corresponding to the student's undergraduate major(s) or degree(s) will be waived and the student will complete a directed elective in the waived field in addition to the hours transferred from UNMC. The waived core course will not satisfy degree requirements. Please consult with your advisor for a complete list of approved directed electives.

MBA/MSN students are not eligible to choose an MBA concentration because UNMC CON courses will comprise all electives.

## Other MBA Requirements

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

## Academic Performance MBA Program Two Strikes Rule

A UNO MBA student may enroll only **twice** in each MBA course. If the class is not successfully completed on the second attempt then the student will be dismissed from the MBA program. An enrollment is defined as being enrolled in the course after the last day to withdraw via MavLINK and receive a 100% refund. The last day for withdrawal will be as stated in the current academic calendar for a full semester course (3 credits); for an eight-week course (2 credits) the last day for withdrawal will be the third day (including the start date) of the course as designated in MavLINK.

## MBA Program Academic Performance

Students earning a third grade of "C+ "or lower (or any single grade below "C" 1.67 on a 4.0 scale) will be automatically dismissed from the MBA program. Dismissed students will be immediately administratively withdrawn from all courses in which they are enrolled for MBA credit. Students who have been dismissed may not enroll in any courses for MBA credit in any subsequent semester or summer session until reinstatement has been granted by the College of Business Administration's Graduate Program Council (CBA GPC) and graduate dean.

Students who have been dismissed from the MBA program may submit a written petition for reinstatement to the CBA GPC. Students who have petitioned the CBA GPC for reinstatement may not enroll in any courses for MBA credit. Upon receiving a petition for reinstatement, the CBA GPC will evaluate the student's written petition for reinstatement. As part of the reinstatement petitioning process, the CBA GPC reserves the right to examine the student's academic record and reserves the right to speak to any previous instructor who has taught the student and this information may be used by the CBA GPC in the reinstatement decision. Information provided by previous instructors will not be shared with the student. Reinstatement is a privilege and not all students who are dismissed will be reinstated. Students who have been reinstated will serve a probationary period of the CBA GPC's discretion and must satisfy the probationary conditions specified by the CBA GPC. In addition to probationary conditions, reinstated students will be subject to additional reinstatement conditions as specified by the CBA GPC. These reinstatement conditions will include retaking one or more courses in which the student must earn a grade of "B" (3.0) or higher (the exact grade requirements for retaken courses may in fact be higher than "B" (3.0)). Students not achieving the probationary or reinstatement conditions will be automatically dismissed.

## CBA GPC Will Consider Grades Earned in Repeat Courses

When making decisions based on Quality of Work Standards issues, the CBA GPC will consider the initial grade(s) received in a course as well as the most recent grade received for the course. This approach differs from the method used to calculate GPA in a student's MavLINK file, where the most recent grade replaces the grade received in the previous attempt.

## Student Responsibilities

- Each student admitted to graduate studies is responsible for knowing the procedures and regulations of the Graduate College.
- Each student admitted to the MBA/MSN will, within the first semester of their enrollment in the MBA program, file a plan of study in close consultation with a graduate advisor.
- Once admitted to the MBA/MSN dual degree program, the MBA Director in the College of Business Administration will oversee the student's progress in the MBA curriculum, and faculty in the College of Nursing will oversee the student's progress in the MSN curriculum.
- Each student has to complete the MBA orientation.
- Students must maintain academic eligibility as defined by each degree program.

# Business Administration, MBA and UNMC Master of Perfusion Science

The health care industry is an ever-changing landscape, requiring those in leadership positions to navigate complex issues associated with patient care, operations, change management and public policy, to name a few. Allied health professionals comprise approximately 60 percent of the total health care workforce, and together provide the fundamental framework critical to the success of the American health care system. Students jointly pursuing education in an allied health profession and in business are uniquely prepared not only for health care practice, but also for taking on key decision-making roles in health care organizations.

## Program Related Information

### Program Contacts

Business Administration:  
402.554.2448  
mba@unomaha.edu

College of Allied Health Professionals:  
CAHP Enrollment Management & Student Affairs  
402.559.6673  
cahpadmissions@unmc.edu (:cahpadmissions@unmc.edu)

**Program Website (<https://www.unmc.edu/alliedhealth/academics/programs/dual-mba/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1 (Limited availability for international applicants)
- Fall 2026: July 1 (June 1 for international applicants)

## Other Requirements

- Junior/senior GPA of at least 2.85 (on a 4.0 point scale)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** (employment and educational history)
- Applicants must be admitted to a graduate degree program in the CAHP and have completed no more than the first year of that program.

## Degree Requirements

### MBA Foundation Courses

| Code  | Title                                 | Credits |
|---|---------------------------------------|---------|
| <b>Accounting</b>   |                                       |         |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3       |
| Or one year of Principles of Accounting at the undergraduate level:   |                                       | 6       |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I            |         |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II           |         |
| <b>Economics</b>  |                                       |         |
| ECON 1200   | SURVEY OF ECONOMICS                   | 3       |
| Or Micro-economics and Macro-economics at the undergraduate level:  |                                       | 6       |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO)       |         |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO)       |         |
| <b>English Composition</b>  |                                       |         |
| A required course for all international students entering the MBA program who are required to take the TOEFL: |                                       |         |
| ENGL 1150   | ENGLISH COMPOSITION I                 | 3       |
| <b>Foundation Courses cannot be used to meet the degree requirements for the MBA program.</b>                 |                                       |         |

### MBA Core Course Requirements (22 hours)

| Code      | Title                                     | Credits |
|-----------|---|---------|
| BSAD 8060 | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP | 2       |

|                      |  |           |
|----------------------|--|-----------|
| BSAD 8000            | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2         |
| BSAD 8040            | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION | 2         |
| BSAD 8150            | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2         |
| BSAD 8210            | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2         |
| BSAD 8250            | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2         |
| BSAD 8420            | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2         |
| BSAD 8630            | FINANCE: UNDERSTANDING CAPITAL AND CASH <sup>1</sup>                   | 2         |
| BSAD 8700            | BUSINESS ANALYTICS: MAKING SENSE OF DATA                               | 2         |
| BSAD 8720            | STRATEGIC FINANCIAL MANAGEMENT <sup>2</sup>                            | 2         |
| BSAD 8830            | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE <sup>3</sup>    | 2         |
| <b>Total Credits</b> |  | <b>22</b> |

<sup>1</sup> BSAD 8630 (prereq: completion of BSAD 8150 and BSAD 8210)

<sup>2</sup> BSAD 8720 (prereq: completion of BSAD 8630)

<sup>3</sup> BSAD 8830 (prereq: completion of BSAD 8150 and BSAD 8210)

## Exit Requirement

**BSAD 8800-MBA Project-Focused Capstone** (2 credits) The project-focused capstone course for the Master's of Business Administration (MBA) degree will focus on the students completing a health care-related project for a nonprofit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the Capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class. Not open to non-degree graduate students.

| Code      | Title                        | Credits |
|-----------|------------------------------|---------|
| BSAD 8800 | MBA PROJECT-FOCUSED CAPSTONE | 2       |

## Elective Courses (9 hours)

Students completing the MBA/MPS program will transfer nine hours of coursework from the courses listed below to fulfill elective requirements for the MBA program. Minimum of "B" (3.0 on a 4.0 scale) grade required in each course to be transferred.

Transfer and application of the "professional" hours from UNMC to the UNO MBA program will take place upon completion of the MPS degree. The courses are:

| Code                 | Title                                    | Credits  |
|----------------------|--|----------|
| CAHP 530             | Scanning Health Care Environment         | 3        |
| CAHP 531             | Management in Health Care                | 3        |
| CAHP 626             | Health Care Ethics and Critical Thinking | 3        |
| <b>Total Credits</b> |  | <b>9</b> |

MBA/MPS students who have earned undergraduate or graduate degrees in accounting, economics, finance, management, management information systems, or marketing, the MBA core course(s) corresponding to the student's undergraduate major(s) or degree(s) will be waived and the

student will complete a directed elective in the waived field in addition to the hours transferred from UNMC. The waived core course will not satisfy degree requirements. Please consult with your advisor for a complete list of approved directed electives.

MBA/MPS students are not eligible to choose an MBA concentration because UNMC courses will comprise all electives.

## Other MBA Requirements

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

# Business Administration, MBA and UNMC Master of Physician Assistant Studies

The health care industry is an ever-changing landscape, requiring those in leadership positions to navigate complex issues associated with patient care, operations, change management and public policy, to name a few. Allied health professionals comprise approximately 60 percent of the total health care workforce, and together provide the fundamental framework critical to the success of the American health care system. Students jointly pursuing education in an allied health profession and in business are uniquely prepared not only for health care practice, but also for taking on key decision-making roles in health care organizations.

## Program Related Information

### Program Contacts

Business Administration:  
402.554.2448  
mba@unomaha.edu

College of Allied Health Professionals:  
CAHP Enrollment Management & Student Affairs  
cahpadmissions@unmc.edu (:cahpadmissions@unmc.edu)  
402.559.6673

**Program Website (<https://www.unmc.edu/alliedhealth/academics/programs/dual-mba/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1 (Limited availability for international applicants)
- Fall 2026: July 1 (June 1 for international applicants)

## Other Requirements

- Junior/senior GPA of at least 2.85 (on a 4.0 point scale)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, (<https://www.unomaha.edu/graduate-studies/prospective-students/Proof%20of%20English%20Proficiency-%20International.pdf>) (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** (employment and educational history)
- Applicants must be admitted to a graduate degree program in the CAHP and have completed no more than the first year of that program.

## Degree Requirements

### MBA Foundation Courses

| Code  | Title                                 | Credits |
|---|---------------------------------------|---------|
| <b>Accounting</b>   |                                       |         |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3       |
| Or one year of Principles of Accounting at the undergraduate level:   |                                       | 6       |
| ACCT 2010   | PRINCIPLES OF ACCOUNTING I            |         |
| ACCT 2020   | PRINCIPLES OF ACCOUNTING II           |         |
| <b>Economics</b>  |                                       |         |
| ECON 1200   | SURVEY OF ECONOMICS                   | 3       |
| Or Micro-economics and Macro-economics at the undergraduate level:  |                                       | 6       |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO)       |         |
| ECON 2220   | PRINCIPLES OF ECONOMICS (MACRO)       |         |
| <b>English Composition</b>  |                                       |         |
| A required course for all international students entering the MBA program who are required to take the TOEFL: |                                       |         |
| ENGL 1150   | ENGLISH COMPOSITION I                 | 3       |
| <b>Foundation Courses cannot be used to meet the degree requirements for the MBA program.</b>                 |                                       |         |

### MBA Core Course Requirements (22 hours)

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| BSAD 8060            | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP                              | 2         |
| BSAD 8000            | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2         |
| BSAD 8040            | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION | 2         |
| BSAD 8150            | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2         |
| BSAD 8210            | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2         |
| BSAD 8250            | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2         |
| BSAD 8420            | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2         |
| BSAD 8630            | FINANCE: UNDERSTANDING CAPITAL AND CASH <sup>1</sup>                   | 2         |
| BSAD 8700            | BUSINESS ANALYTICS: MAKING SENSE OF DATA                               | 2         |
| BSAD 8720            | STRATEGIC FINANCIAL MANAGEMENT <sup>2</sup>                            | 2         |
| BSAD 8830            | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE <sup>3</sup>    | 2         |
| <b>Total Credits</b> |  | <b>22</b> |

<sup>1</sup> BSAD 8630 (prereq: completion of BSAD 8150 and BSAD 8210)

<sup>2</sup> BSAD 8720 (prereq: completion of BSAD 8630)

<sup>3</sup> BSAD 8830 (prereq: completion of BSAD 8150 and BSAD 8210)

### Exit Requirement

**BSAD 8800-MBA Project-Focused Capstone** (2 credits) The project-focused capstone course for the Master's of Business Administration (MBA) degree will focus on the students completing a health care-related project for a nonprofit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class. Not open to non-degree graduate students.

| Code      | Title                        | Credits |
|-----------|------------------------------|---------|
| BSAD 8800 | MBA PROJECT-FOCUSED CAPSTONE | 2       |

### Elective Courses (9 hours)

Students completing the MBA/MPAS program will transfer nine hours of coursework from the courses listed below to fulfill elective requirements for the MBA program. Minimum of "B" (3.0 on a 4.0 scale) grade required in each course to be transferred.

Transfer and application of the "professional" hours from UNMC to the UNO MBA program will take place upon completion of the MPAS degree. The courses are:

| Code     | Title  | Credits |
|----------|--|---------|
| PHAS 620 | Physician Assistant Professional Issues  | 1       |
| PHAS 632 | Communication in Medicine I  | 2       |
| PHAS 637 | Communication in Medicine II   | 1       |
| PHAS 660 | Medical Ethics   | 1       |
| PHAS 665 | Systems in Health Care and Management  | 1       |
| PHAS 670 | Research Applications in Medicine  | 1       |
| PHAS 707 | Family Medicine Clerkship<br>(Students must complete an applied organizational/managerial audit assignment after completing the Family Practice Clerkship. The details of this assignment will be provided upon admission to the MBA program.) | 2       |

|                      |          |
|----------------------|----------|
| <b>Total Credits</b> | <b>9</b> |
|----------------------|----------|

MBA/MPAS students who have earned undergraduate or graduate degrees in accounting, economics, finance, management, management information systems, or marketing, the MBA core course(s) corresponding to the student's undergraduate major(s) or degree(s) will be waived and the student will complete a directed elective in the waived field in addition to the hours transferred from UNMC. The waived core course will not satisfy degree requirements. Please consult with your advisor for a complete list of approved directed electives.

MBA/MPAS students are not eligible to choose an MBA concentration because UNMC courses will comprise all electives.

### Other MBA Requirements

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.



## Business for Bioscientists Certificate

This certificate program provides a basic understanding of business principles to biomedical PhD students. While UNMC PhD students receive extensive training in research methods and the principles of biology and medicine, they receive no formal training in business fundamentals. However, a significant portion of biomedical PhD students obtain employment in pharmaceutical, biotechnology, and other industries. For students with these career goals, formal training in business would markedly enhance their career options and competitiveness for these industry positions.

## Program Related Information

### Program Contact

402.554.2448  
mba@unomaha.edu

**Program Website** (<https://www.unomaha.edu/college-of-business-administration/mba/>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Fall 2026: July 1

### Other Requirements

- Applicants must be post-undergraduate students regardless of their current status in a PhD program.
- All applicants must have earned a minimum junior/senior GPA of 2.85.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Include employment and educational history

## Degree Requirements

The 12 credit hours needed to fulfill certificate requirements does not include the foundation courses listed below.

### Foundation Courses

| Code  | Title                                 | Credits  |
|---|---------------------------------------|----------|
| These courses are not applicable to the completion of the certificate requirements. |                                       |          |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3        |
| ECON 1200   | SURVEY OF ECONOMICS                   | 3        |
| <b>Total Credits</b>  |                                       | <b>6</b> |

## Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses</b>                         |  | <b>4</b>  |
| BSAD 8060                                       | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP                              | 2         |
| BSAD 8420                                       | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2         |
| <b>Electives</b>                                |  |           |
| Select a minimum of 5 hours from the following: |  | 5         |
| BSAD 8150                                       | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2         |
| BSAD 8210                                       | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2         |
| BSAD 8250                                       | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2         |
| <b>Exit Requirements</b>                        |  |           |
| BSAD 8910                                       | SPECIAL TOPICS IN BUSINESS (Business for Bioscientists) <sup>1</sup>   | 3         |
| <b>Total Credits</b>                            |  | <b>12</b> |

<sup>1</sup> All other courses in the program must have been completed prior to enrolling in BSAD 8910.

## Business in Health Administration Certificate

The business in health administration (BIHA) certificate program was developed in collaboration with the UNMC College of Public Health to provide students pursuing the Master of Health Administration (MHA) program with the opportunity for additional training in economics, finance, and other topics relevant to health care management.

## Program Related Information

### Program Contact

402.554.2448  
mba@unomaha.edu

College of Public Health, UNMC  
402.559.4960  
coph@unmc.edu

**Program Website** (<https://www.unomaha.edu/college-of-business-administration/mba/>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1
- Fall 2026: July 1

### Other Requirements

- All applicants must have earned a minimum junior/senior GPA of 2.85.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country

on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- **Resume:** Include employment and educational history
- Enrollment in the UNMC MHA program will also be a requirement for admission.

## Degree Requirements

The 12 credit hours needed to fulfill certificate requirements does not include the foundation courses listed below.

### Foundation Courses

| Code  | Title                                 | Credits  |
|---|---------------------------------------|----------|
| These courses are not applicable to the completion of the certificate requirements. |                                       |          |
| BSAD 8110   | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3        |
| ECON 1200   | SURVEY OF ECONOMICS                   | 3        |
| <b>Total Credits</b>  |                                       | <b>6</b> |

## Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>  |   | <b>5</b>  |
| BSAD 8060  | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP                       | 2         |
| BSAD 8096  | MANAGING COLLABORATIVE ENGAGEMENT                               | 3         |
| <b>Electives - select a minimum of 4 hours from the following:</b> |   | <b>4</b>  |
| BSAD 8150  | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                      | 2         |
| BSAD 8210  | ACCOUNTING: DECISIONS & CONSEQUENCES                            | 2         |
| BSAD 8420  | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                  | 2         |
| CPH 580  | Health Care Organization Theory (UNMC)                          | 3         |
| <b>Exit Requirements</b>   |   | <b>3</b>  |
| BSAD 8910  | SPECIAL TOPICS IN BUSINESS (Health Administration) <sup>1</sup> | 3         |
| <b>Total Credits</b>   |   | <b>12</b> |

<sup>1</sup> All other courses in the program must have been completed prior to enrolling in BSAD 8910.

## Executive Business Certificate

Broad knowledge of the many areas of business is essential for organizational leaders in today's competitive environment. This program allows you to acquire skills quickly and focus solely on the business content you need. Gain a deeper understanding of business decision-making, financial analysis, and strategic thinking to succeed in various industries.

## Program Related Information

### Program Contact

402.554.2448

[unoexecutivemba@unomaha.edu](mailto:unoexecutivemba@unomaha.edu)

### Program Website (<http://cba.unomaha.edu/xmba/>)

## Admissions

General Application Requirements and Admission Criteria (<https://catalog.unomaha.edu/graduate/admission/>)

### Application Deadlines

- Fall 2026: July 1

### Other Requirements

- A minimum of six (6) years of professional-level work experience is required
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** In one page or less, describe how your interest and completion of this program will help you achieve your career goals.
- **Resume:** Current resume detailing employment history, specific job responsibilities, accomplishments, leadership roles, and community involvement.

## Degree Requirements

| Code      | Title   | Credits |
|-----------|---|---------|
| BSAD 8380 | EFFECTIVE SYSTEMS, OPERATIONS, AND IT               | 2       |
| BSAD 8260 | EFFECTIVE USE & REPORTING OF ACCOUNTING INFORMATION | 2       |

|           |   |   |
|-----------|---|---|
| BSAD 8360 | EFFECTIVE MANAGEMENT OF CAPITAL STRUCTURE, CASH, & RISK | 2 |
| BSAD 8560 | MARKETING STRATEGY: CUSTOMERS AND MARKETS               | 2 |
| BSAD 8240 | EFFECTIVE LEADERSHIP OF PEOPLE                          | 2 |
| BSAD 8480 | BUSINESS ECONOMICS AND CORPORATE STRATEGY               | 2 |
| BSAD 8570 | EFFECTIVE STRATEGIC MANAGEMENT                          | 2 |

**Total Credits****14**

## Executive Business Analytics Certificate

Today's organizations have access to enormous amounts of data, and those that are able to translate it into meaningful insights can gain a competitive advantage in the marketplace. This certificate program is an excellent option for executives and managers who want to improve their data-informed decision-making skills. Courses focus on the accurate use of business intelligence tools to better evaluate, interpret, and utilize reports from their organizations' analytics team.

### Program Related Information

#### Program Contact

402.554.2448

unoexecutivemba@unomaha.edu

**Program Website** (<http://cba.unomaha.edu/xmba/>)

#### Admissions

General Application Requirements and Admission Criteria (<https://catalog.unomaha.edu/graduate/admission/>)

#### Application Deadlines

- [Spring 2026: January 5](#)
- [Fall 2026: July 1](#)

#### Other Requirements

- A minimum of six (6) years of professional-level work experience is required
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** In one page or less, describe how your interest and completion of this program will help you achieve your career goals.
- **Resume:** Current resume detailing employment history, specific job responsibilities, accomplishments, leadership roles, and community involvement.

### Degree Requirements

| Code      | Title                                  | Credits |
|-----------|--|---------|
| BSAD 8440 | BUSINESS INTELLIGENCE DATA EXPLORATION | 2       |
| BSAD 8140 | BUSINESS INTELLIGENCE ANALYSIS         | 2       |
| BSAD 8160 | INTERMEDIATE ANALYTICS                 | 2       |
| BSAD 8190 | APPLICATIONS IN ANALYTICS              | 2       |
| BSAD 8220 | ADVANCED APPLICATIONS IN ANALYTICS     | 2       |
| BSAD 8660 | FRONTIERS OF ANALYTICS                 | 2       |

**Total Credits****12**

## Executive Business Leadership Certificate

Today's organizational leadership goes beyond mere management. Successful leaders not only manage employees but also inspire and motivate them, drive performance, and create a positive workplace culture. This certificate is the ideal option for professionals looking to fast-track their leadership development. The program is designed to cover the latest trends and practices in leadership, with a focus on effective personnel management and strategic leadership in modern organizations.

### Program Related Information

#### Program Contact

402.554.2448

unoexecutivemba@unomaha.edu

## Program Website (<http://cba.unomaha.edu/xmba/>)

## Admissions

General Application Requirements and Admission Criteria (<https://catalog.unomaha.edu/graduate/admission/>)

### Application Deadlines

- [Spring 2026: January 5](#)
- [Fall 2026: July 1](#)

### Other Requirements

- A minimum of six (6) years of professional-level work experience is required
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** In one page or less, describe how your interest and completion of this program will help you achieve your career goals.
- **Resume:** Current resume detailing specific job responsibilities, accomplishments, leadership roles, and community involvement.

## Degree Requirements

| Code                 | Title   | Credits   |
|----------------------|---|-----------|
| BSAD 8280            | EMPLOYEE RECRUITMENT, ENGAGEMENT, AND RETENTION | 2         |
| BSAD 8650            | VISION & STRATEGIC LEADERSHIP                   | 2         |
| BSAD 8370            | TALENT MANAGEMENT LEADERSHIP                    | 2         |
| BSAD 8330            | LEADING TEAMS                                   | 2         |
| BSAD 8230            | LEADING CHANGE & INNOVATION                     | 2         |
| BSAD 8070            | COACHING & DEVELOPING OTHERS                    | 2         |
| <b>Total Credits</b> |   | <b>12</b> |

## Human Resources and Training Certificate

The purpose of the graduate certificate in human resources and training (HRST) is to help post-baccalaureate students and working professionals expand their educational background and enhance their knowledge and skills in either human resources or training and development. The first concentration, human resources, focuses on enhancing organizational effectiveness through employee recruitment, selection, placement, performance evaluation, motivation, and retention. The second concentration, training and development, focuses on enhancing training skills and program design including developing, implementing, assessing, and delivering training programs. The HRST certificate is useful for individuals currently employed in the human resources or training fields and for individuals who desire to enter those fields. The graduate courses required for this certificate address both theory and application from the fields of communication, psychology, and business.

## Program Related Information

### Program Contact

Lynn Harland, PhD, Graduate Program Chair (GPC)  
402.554.2808  
[lharland@unomaha.edu](mailto:lharland@unomaha.edu)

Sharon Storch, PhD, Graduate Program Chair (GPC)  
402.554.6079  
[ssorch@unomaha.edu](mailto:ssorch@unomaha.edu)

Roni Reiter-Palmon, PhD, Graduate Program Chair (GPC)  
402.554.4810

[rreiter-palmon@unomaha.edu](mailto:rreiter-palmon@unomaha.edu)

## Program Website (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/communication/graduate-programs/>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications are accepted and reviewed on a rolling basis throughout the year.

### Other Requirements

- Admission to the HRST graduate certificate program requires a baccalaureate degree with at least a 3.0 GPA, a major or a minor (or at least a 15 credit concentration) in communication studies, psychology, business, or related area, plus at least one three credit course in research methods or statistics.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- **Statement of Purpose:** A 1000 word maximum statement of purpose essay describing which concentration you wish to pursue and why.
- **Resume:** A resume that includes your work history
- **Letter of Recommendation:** One letter of recommendation from a current or former supervisor or professor. During your online application process, you will be asked to provide the name and email address of the person writing your recommendation letter. The online application system will send an email to your recommender containing a link for online submission of the recommendation letter.

## Degree Requirements

| Code                                  | Title  | Credits   |
|---------------------------------------|--|-----------|
| <b>Area One</b>                       |  |           |
| Select three hours from the following |  | 3         |
| BSAD 8136                             | HUMAN RESOURCE MANAGEMENT  |           |
| CACT 8530                             | PERSONNEL PSYCHOLOGY AND LEADERSHIP                                    |           |
| PSYC 8646                             | PERSONNEL PSYCHOLOGY   |           |
| <b>Area Two</b>                       |  |           |
| Select three hours from the following |  | 3         |
| BSAD 8156                             | TALENT DEVELOPMENT   |           |
| COMM 8156                             | ORGANIZATIONAL TRAINING AND DEVELOPMENT                                |           |
| PSYC 9620                             | TRAINING AND DEVELOPMENT   |           |
| <b>Area Three</b>                     |  |           |
| Select three hours from the following |  | 3         |
| BSAD 8250                             | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES |           |
| COMM 8170                             | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP                            |           |
| PSYC 8636                             | ORGANIZATIONAL PSYCHOLOGY  |           |
| PSYC 9421                             | POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP                      |           |
| or CACT 8520                          | POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP                      |           |
| <b>Area Four</b>                      |  |           |
| Select six hours from the following   |  | 6         |
| BSAD 8096                             | MANAGING COLLABORATIVE ENGAGEMENT                                      |           |
| BSAD 8146                             | TOTAL REWARDS  |           |
| BSAD 8166                             | STAFFING THE ORGANIZATION  |           |
| COMM 8010                             | COMMUNICATION RESEARCH METHODS SEMINAR: QUANTITATIVE                   |           |
| COMM 8020                             | COMMUNICATION RESEARCH METHODS SEMINAR: QUALITATIVE                    |           |
| COMM 8250                             | STRATEGIC COMMUNICATION  |           |
| COMM 8576                             | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE                       |           |
| PSYC 8656                             | CREATIVITY AND INNOVATION IN ORGANIZATIONS                             |           |
| or CACT 8506                          | CREATIVITY AND INNOVATION IN ORGANIZATIONS                             |           |
| PSYC 9610                             | MOTIVATION & MORALE  |           |
| PSYC 9660                             | CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL                        |           |
| <b>Total Credits</b>                  |  | <b>15</b> |

Courses must be completed in at least two of the three units (i.e., business administration, communication, or psychology) associated with this certificate program.

## Exit Requirements Portfolio

Students admitted to the HRST graduate certificate program must create a portfolio (notebook) containing at least one sample project from each course. A portfolio review will be conducted by the student's advisor before the certificate is awarded. Contact your advisor during the last semester of your program.

## Other Program-Related Information

Many courses are offered online-check each semester schedule for details and availability. Students may need to obtain approval and/or a permit number to enroll in some courses. For psychology (PSYC) courses, please contact the instructor for approval; for business administration (BSAD) courses, please contact the MBA advisor at 402.554.3010, and for communication studies (CMST) courses, please contact the certificate advisor at 402.554.6079.

## Logistics & Supply Chain Management Certificate

The purpose of the logistics & supply chain management graduate certificate is to assist working professionals with career advancement by enhancing their knowledge of supply chain management. The graduate certificate is designed to expand students' knowledge of both theory and practice in the field of supply chain management.

## Program Related Information

### Program Contact

402.554.2448  
mba@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-business-administration/mba/program/supply-chain-certificate.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1
- Fall 2026: July 1

## Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume** (employment and educational history)
- **Statement of Purpose:** In a minimum 250 words address the following:
  - What are your personal and/or professional reasons for pursuing the Logistics and Supply Chain Management graduate certificate?
- **Unconditional Admission:** may be granted to an applicant whose record includes:



- A minimum 2.85 undergraduate junior/senior GPA
- **Provisional Admission:** Applicants who do not meet the conditions for unconditional admission may be considered for provisional admission status. These applicants will be notified that the CBA Graduate Program Council (CBA GPC) will evaluate the files of all applicants being considered for provisional admission. Candidates being considered for admission on this basis will receive notification from the UNO Office of Graduate Studies. If granted provisional admission, the student must earn minimum "B" (3.0/4.0) grades in each of the courses completed in 12 hours of the certificate program. Students not meeting this standard are subject to dismissal.
- **Foundation courses:** These courses are not applicable to the completion of the certificate requirements.

| Code                 | Title                                 | Credits  |
|----------------------|---------------------------------------|----------|
| BSAD 8110            | ACCOUNTING AND FINANCIAL FUNDAMENTALS | 3        |
| ECON 1200            | SURVEY OF ECONOMICS                   | 3        |
| <b>Total Credits</b> |                                       | <b>6</b> |

## Degree Requirements

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| <b>Core Courses</b>  |  |           |
| BSAD 8710            | SUPPLY CHAIN MANAGEMENT                          | 3         |
| BSAD 8376            | SUPPLY CHAIN ANALYTICS                           | 3         |
| <b>Electives</b>     |  | <b>6</b>  |
| BSAD 8066            | HEALTHCARE ANALYTICS FOR BUSINESS                |           |
| BSAD 8076            | INTERNATIONAL LOGISTICS MANAGEMENT               |           |
| BSAD 8096            | MANAGING COLLABORATIVE ENGAGEMENT                |           |
| BSAD 8176            | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT       |           |
| BSAD 8336            | PROJECT MANAGEMENT                               |           |
| BSAD 8356            | GLOBAL SOURCING AND INNOVATION                   |           |
| BSAD 8386            | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT   |           |
| BSAD 8466            | SUPPLY CHAIN INTEGRATION                         |           |
| ACCT 8066            | ADVANCED MANAGERIAL ACCOUNTING                   |           |
| ECON 8210            | APPLIED MANAGERIAL ECONOMICS                     |           |
| ISQA 8166            | ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING |           |
| ISQA 8460            | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD |           |
| ISQA 8750            | STORYTELLING WITH DATA                           |           |
| <b>Total Credits</b> |  | <b>12</b> |

## Academic Performance

In addition to the Quality of Work Standards established by the Graduate College, students in the Logistics & Supply Chain Management certificate program may repeat a BSAD 8xxx level course in which they receive any grade, including "W" or "I" one time. If the class is not successfully completed on the second attempt, the student will be dismissed from the Logistics & Supply Chain Management certificate program.

Each semester, student files will be reviewed where a student received a grade lower than a "B" (3.0 out of 4.0). Students earning more than one grade of "C+" or lower (or any single grade below "C" (1.67 on a 4.0 scale)) will be automatically dismissed from the Logistics & Supply Chain Management certificate program.

Dismissed students will be immediately administratively withdrawn from all MBA courses in which they are enrolled for credit. Students who have been dismissed may not enroll in any MBA courses for credit in any subsequent semester or summer session until reinstatement has been granted by the CBA GPC and the graduate dean.

## Communication

### Degree Programs Offered

- Communication (MA) (p. 1041)

### Certificates Offered

- Communication Certificate (p. 1043)
- Human Resources and Training Certificate (p. 1039)

## Communication, MA

The program provides a learner-centered, flexible, and dynamic environment designed to help students pursue their career goals—whether that's obtaining professional employment, preparing for a career in higher education, or for upskilling within their current profession.

We aspire to offer an empowering educational experience through exceptional faculty who are committed to cultivating students' breadth and depth of knowledge about communication. We strive to foster a spirit of inquiry, meet individual student goals, and prepare students for professional and personal success.

## Program Related Information

### Program Contact

Sharon Storch, PhD, Graduate Program Chair (GPC)  
sstorch@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/communication/>)**

### Fast Track

The School of Communication has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing BA/BS in communication studies or a BA/BS in journalism and media communication
- Students must have completed no less than 75 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0 and a major GPA of 3.75.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.

- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
- Admission to Fast Track does NOT guarantee admission to the graduate program.
- The admit term must be after the completion term of the undergraduate degree.

The following courses may be taken under the Fast-Track program:

COMM 8000, Foundations of Communication

COMM 8010, Quantitative Methods

COMM 8020, Qualitative Methods

COMM 8040, Rhetorical Methods

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Fall 2026: August 1

If you are applying for a **graduate assistantship**, both admissions and assistantship application materials must be completed by **March 1** (for Fall Semester) and **October 1** (for Spring Semester) for priority consideration.

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** The statement should be 500 words in length and should answer the following questions:
  - Why have you chosen the UNO School of Communication master's degree program?
  - What are your areas of scholarly interest and research?
  - What are your personal or professional plans after you complete the master's degree? How will this degree support your plans?
- **Writing Sample:** An academic or otherwise-demonstrative writing sample (e.g., term paper, senior thesis, or research paper) that demonstrates the applicant's strengths as a writer and researcher.
- **Resume or CV:** Identify major and minor field(s) of study, overall GPA, and GPA within major, as well as all relevant experience.
- **Letters of Recommendation** - Two letters are required. A minimum of one letter from a faculty member of the applicant's undergraduate program should be included if at all possible. The other letter should address an applicant's ability to do advanced-level academic work. References from family members, friends, or other non-professional sources will not be considered.

### Admission Status

- Unconditional Admission may be granted to a student whose record includes at least the following:

- Certification of a bachelor's degree from a regionally accredited institution
- Documentation through official transcripts using a 4.0 grade point scale of having earned at least:
  - A 3.25 in communication or undergraduate major work.
  - Either a 3.0 overall undergraduate average GPA or a 3.25 average GPA in the last half of undergraduate credit hours, and
  - Inclusion of nine (9) to 15 undergraduate (junior or senior level) theory and/or research courses in communication (e.g., communication studies, speech communication, broadcasting, journalism, mass communication, media communication or studies, rhetoric) or a related field as approved by the graduate program chair (GPC) and/or the graduate admissions committee.
- Provisional Admission may be granted for reasons of experience, maturity or other circumstances to a student who does not meet the unconditional admission standards. A student will not be admitted who does not meet UNO Graduate College provisional admission standards (a 2.75 GPA for both undergraduate major and minor).
  - The school's graduate admission committee may require any one or any combination of the following in deciding whether or not to recommend provisional admission:
    - Completion of prescribed course(s) (not for graduate credit) with a grade of "B" (3.0/4.0) or better, with course(s) approved in advance by the GPC and/or the graduate admission committee.
    - Completion of the first 12 graduate hours of coursework with a grade of "B" (3.0/4.0) or better as a non-declared student.
- Provisionally admitted graduate students cannot serve as graduate teaching assistants until they have met the requirements of the provisional admission.

## Degree Requirements

### Required/Core Courses

Students will take a total of 12 credit hours of core classes. These classes expose students to mass and speech communication theories as well as research methodologies in the communication discipline. The core courses must be completed within the first 18-21 credit hours of a student's program. (This requirement may be waived for students entering the communication graduate program with approved graduate credits to be used in the plan of study). If a student fails to achieve an average grade of "B" (3.0/4.0) in the overall core, the student may retake each core course with a grade below "B" once, and must obtain an average grade of "B" or higher to remain in the program.

### Thesis Option

| Code  | Title  | Credits |
|---|--|---------|
| <b>Required Core Courses</b>  |  |         |
| The 12 hours of required courses listed below must be completed with an average grade of "B" or better: |  |         |
| COMM 8000   | FOUNDATIONS OF COMMUNICATION                         | 3       |
| COMM 8010   | COMMUNICATION RESEARCH METHODS SEMINAR: QUANTITATIVE | 3       |
| COMM 8020   | COMMUNICATION RESEARCH METHODS SEMINAR: QUALITATIVE  | 3       |
| COMM 8040   | SEMINAR IN RHETORICAL CRITICISM                      | 3       |
| <b>Electives</b>  |  |         |

Select 15 elective hours in consultation with the graduate program chair. These will be denoted as either COMM, CMST, or JMC. Three to six elective hours from outside the school may be counted toward degree requirements with permission of the graduate program chair. Electives must be completed with an average grade of "B" or better to maintain GPA requirements for program and university.

|           |        |   |
|-----------|--------|---|
| COMM 8990 | THESIS | 6 |
|-----------|--------|---|

|                      |  |           |
|----------------------|--|-----------|
| <b>Total Credits</b> |  | <b>33</b> |
|----------------------|--|-----------|

All candidates should carefully review the Graduate College requirements for forming the thesis supervisory committee, for submitting the Thesis Supervisory Committee form, the Thesis/Thesis Equivalent Proposal Approval form, and the Report on Completion of Degree form as well as for the final approval and submission of the thesis.

## Project Option

| Code                         | Title | Credits |
|------------------------------|-------|---------|
| <b>Required Core Courses</b> |       |         |

The 12 hours of required courses listed below must be completed with an average grade of "B" or better:

|           |  |   |
|-----------|--|---|
| COMM 8000 | FOUNDATIONS OF COMMUNICATION                         | 3 |
| COMM 8010 | COMMUNICATION RESEARCH METHODS SEMINAR: QUANTITATIVE | 3 |
| COMM 8020 | COMMUNICATION RESEARCH METHODS SEMINAR: QUALITATIVE  | 3 |
| COMM 8040 | SEMINAR IN RHETORICAL CRITICISM                      | 3 |

### Electives

Select 18 elective hours in consultation with the graduate program chair. These will be denoted as either COMM, CMST, or JMC. Three to six elective hours from outside the school may be counted toward degree requirements with permission of the graduate program chair. Electives must be completed with an average grade of "B" or better to maintain GPA requirements for program and university.

|           |                  |   |
|-----------|------------------|---|
| COMM 8970 | GRADUATE PROJECT | 3 |
|-----------|------------------|---|

|                      |  |           |
|----------------------|--|-----------|
| <b>Total Credits</b> |  | <b>33</b> |
|----------------------|--|-----------|

The project, in lieu of a thesis, is based on a proposal approved by the student's committee. The student must complete a project which is defended orally before their project committee.

## Exit Requirements

Students will take either six (6) thesis credit hours or three (3) project hours during the final semester(s) of their program. These credit hours must be 1) taken either concurrently or after the student's final semester of coursework and 2) must be taken and completed in order to successfully complete the program. It is strongly encouraged that coursework is completed prior to the thesis or project. Students will meet with the GPC to discuss which option to consider.

## Thesis Option

All candidates should carefully review the Graduate College requirements for forming a supervisory committee, for submitting the Thesis Supervisory Committee form, the Thesis/Thesis Equivalent Proposal Approval form, and the Report on Completion of Degree form as well as for the final approval and submission of the thesis. Theses are defended orally before the student's thesis committee.

## Project Option

The project, in lieu of a thesis, is based on a proposal approved by the student's committee. Projects are defended orally before the student's project committee.

# Communication Certificate

The communication graduate certificate program provides potential students who are not interested in a complete MA program the opportunity to expand their knowledge of the discipline or customize their learning toward a specific area of study. This can be helpful for career promotion, professional opportunities, teaching in-discipline at the community college/dual-enrollment level, personal exploration, etc.

## Program Related Information

### Program Contact

Sharon Storch, PhD, Graduate Program Chair (GPC)  
140C Arts & Science Hall (ASH)  
402.554.4038  
sstorch@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-communication-fine-arts-and-media/communication/>)**

## Admissions

General Application Requirements and Admissions Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Fall 2026: August 1

## Other Requirements

- Admission to the graduate certificate program requires a bachelor's degree with a minimum 3.0 GPA, a major or a minor (or at least 15 undergraduate credits) in communication (studies), journalism, media, or a related area, plus one 3 credit course in research methods or statistics.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume/Curriculum Vitae**

## Degree Requirements

| Code   | Title                        | Credits   |
|--|------------------------------|-----------|
| <b>Required Course</b>                                   |                              |           |
| COMM 8000  | FOUNDATIONS OF COMMUNICATION | 3         |
| Select 15 hours from COMM, CMST or JMC graduate courses. |                              | 15        |
| <b>Total Credits</b>                                     |                              | <b>18</b> |

# Human Resources and Training Certificate

The purpose of the graduate certificate in human resources and training (HRST) is to help post-baccalaureate students and working professionals expand their educational background and enhance their knowledge and skills in either human resources or training and development. The first concentration, human resources, focuses on enhancing organizational effectiveness through employee recruitment, selection, placement, performance evaluation, motivation, and retention. The

second concentration, training and development, focuses on enhancing training skills and program design including developing, implementing, assessing, and delivering training programs. The HRST certificate is useful for individuals currently employed in the human resources or training fields and for individuals who desire to enter those fields. The graduate courses required for this certificate address both theory and application from the fields of communication, psychology, and business.

## Program Related Information

### Program Contact

Lynn Harland, PhD, Graduate Program Chair (GPC)  
402.554.2808  
lharland@unomaha.edu

Sharon Storch, PhD, Graduate Program Chair (GPC)  
402.554.6079  
sstorch@unomaha.edu

Roni Reiter-Palmon, PhD, Graduate Program Chair (GPC)  
402.554.4810  
rreiter-palmon@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/communication/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications are accepted and reviewed on a rolling basis throughout the year.

### Other Requirements

- Admission to the HRST graduate certificate program requires a baccalaureate degree with at least a 3.0 GPA, a major or a minor (or at least a 15 credit concentration) in communication studies, psychology, business, or related area, plus at least one three credit course in research methods or statistics.
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Statement of Purpose:** A 1000 word maximum statement of purpose essay describing which concentration you wish to pursue and why.
- Resume:** A resume that includes your work history
- Letter of Recommendation:** One letter of recommendation from a current or former supervisor or professor. During your online application process, you will be asked to provide the name and email address of the person writing your recommendation letter. The online application system will send an email to your recommender containing a link for online submission of the recommendation letter.

## Degree Requirements

| Code                                  | Title  | Credits   |
|---------------------------------------|--|-----------|
| <b>Area One</b>                       |  |           |
| Select three hours from the following |  | 3         |
| BSAD 8136                             | HUMAN RESOURCE MANAGEMENT  |           |
| CACT 8530                             | PERSONNEL PSYCHOLOGY AND LEADERSHIP                                    |           |
| PSYC 8646                             | PERSONNEL PSYCHOLOGY   |           |
| <b>Area Two</b>                       |  |           |
| Select three hours from the following |  | 3         |
| BSAD 8156                             | TALENT DEVELOPMENT   |           |
| COMM 8156                             | ORGANIZATIONAL TRAINING AND DEVELOPMENT                                |           |
| PSYC 9620                             | TRAINING AND DEVELOPMENT   |           |
| <b>Area Three</b>                     |  |           |
| Select three hours from the following |  | 3         |
| BSAD 8250                             | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES |           |
| COMM 8170                             | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP                            |           |
| PSYC 8636                             | ORGANIZATIONAL PSYCHOLOGY  |           |
| PSYC 9421                             | POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP                      |           |
| or CACT 8520                          | POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP                      |           |
| <b>Area Four</b>                      |  |           |
| Select six hours from the following   |  | 6         |
| BSAD 8096                             | MANAGING COLLABORATIVE ENGAGEMENT                                      |           |
| BSAD 8146                             | TOTAL REWARDS  |           |
| BSAD 8166                             | STAFFING THE ORGANIZATION  |           |
| COMM 8010                             | COMMUNICATION RESEARCH METHODS SEMINAR: QUANTITATIVE                   |           |
| COMM 8020                             | COMMUNICATION RESEARCH METHODS SEMINAR: QUALITATIVE                    |           |
| COMM 8250                             | STRATEGIC COMMUNICATION  |           |
| COMM 8576                             | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE                       |           |
| PSYC 8656                             | CREATIVITY AND INNOVATION IN ORGANIZATIONS                             |           |
| or CACT 8506                          | CREATIVITY AND INNOVATION IN ORGANIZATIONS                             |           |
| PSYC 9610                             | MOTIVATION & MORALE  |           |
| PSYC 9660                             | CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL                        |           |
| <b>Total Credits</b>                  |  | <b>15</b> |

Courses must be completed in at least two of the three units (i.e., business administration, communication, or psychology) associated with this certificate program.

### Exit Requirements

#### Portfolio

Students admitted to the HRST graduate certificate program must create a portfolio (notebook) containing at least one sample project from each course. A portfolio review will be conducted by the student's advisor before the certificate is awarded. Contact your advisor during the last semester of your program.

## Other Program-Related Information

Many courses are offered online-check each semester schedule for details and availability. Students may need to obtain approval and/or a permit number to enroll in some courses. For psychology (PSYC) courses, please contact the instructor for approval; for business administration (BSAD) courses, please contact the MBA advisor at 402.554.3010, and for communication studies (CMST) courses, please contact the certificate advisor at 402.554.6079.

## Computer Science Degree Programs Offered

- Computer Science, MS (p. 1045)

The graduate certificate programs provide focused, short-term programs of study beyond the baccalaureate degree for individuals seeking to improve their experience, advance in position and salary, expand their education background, and complete work that may potentially be applied to a master's degree. Students who are admitted to the MS in Computer Science program may transfer credits from certificate courses to a relevant concentration in the MS program. Students currently in the MS in Computer Science may also complete certificate programs as part of their studies.

## Certificates Offered

- Artificial Intelligence Certificate (p. 1048)
- Communication Networks Certificate (p. 1049)
- Machine Learning Certificate
- Software Engineering Certificate (p. 1051)
- Systems and Architecture Certificate (p. 1052)

Applicants with an undergraduate degree in Computer Science or Computer Engineering from an accredited institution are expected to have a GPA of at least 3.0. Applicants who have degrees in other fields will also be considered for admission. Students may make up their deficiencies in Computer Science by completing transition courses.

Each certificate requires completion of four graduate courses and usually involve a combination of core and elective courses. Provisional admission courses (such as undergraduate prerequisites) for the certificate must be completed with a grad of "B-" or better. Provisional courses must be completed before continuing any certificate program. Each graduate level course might have prerequisites that must be satisfied before the associated graduate course can be taken. The exit requirements are the same as the MS in Computer Science program. This includes that students must maintain at least a 3.0 GPA and can have no grade lower than a "B-". The undergraduate transition courses assigned at the time of admission must be passed following the same policy.

## Computer Science, MS

The vision of the MS in computer science graduate program is to cultivate an innovative research and teaching ecosystem that advances computational and AI-driven solutions, empowering society to address complex challenges in an era of rapid technological transformation.

## Program Related Information

### Program Contact

Michelle Perone, Graduate Advisor  
402.554.3819  
mperone@unomaha.edu

## Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/degrees-programs.php>)

### Fast Track

The Department of Computer Science has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate credit hours towards the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

#### Program Specifics:

- This program is available for undergraduate students pursuing any CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

Applicants are strongly encouraged to apply as early as possible, especially if applying for assistantships or scholarships. Some scholarships may have earlier deadlines or run out of funding.

- Spring 2026:
  - October 1 for international applicants who are required to secure a new student visa
  - November 1 for all other applicants
- Summer 2026:
  - March 1 for international applicants who are required to secure a new student visa
  - March 15 for all other applicants
- Fall 2026:



- May 1 for international applicants who are required to secure a new student visa
- July 1 for all other applicants

## Other Requirements

- The minimum undergraduate grade point average (GPA) requirement for the MS in computer science program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a four-year undergraduate degree.
- **Entrance Exam:** The Graduate Record Exam (GRE) is not required, but those who are applying for a graduate assistantship are strongly encouraged to submit their official GRE results. GRE results cannot be older than five years. Successful applicants have typically had GRE scores of 150 verbal and 160 quantitative or better.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a detailed resume indicating your work experience and background.
- **OPTIONAL:** One letter of recommendation from a reference who can evaluate your work and/or academic achievements.
- **OPTIONAL:** Application for Graduate Assistant Position
  - If interested in applying for graduate assistant (GA) positions, please submit a letter stating your research area interests and why you feel you would make a good GA. Please note that GA positions will be considered after admission and program admission is not a guarantee of receiving a GA position.

## Degree Requirements

### Undergraduate Deficiencies

The curriculum for the MS in computer science requires a basic knowledge of computer fundamentals including mathematics, programming, data structures, computer architecture and operating systems. Successful completion of these courses with a “B-” or better in each course is required to become an unconditionally admitted student.

| Code      | Title  | Credits |
|-----------|--|---------|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I                       | 3       |
| CSCI 1620 | INTRODUCTION TO COMPUTER SCIENCE II                      | 3       |
| CSCI 2030 | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE             | 3       |
| CSCI 3320 | DATA STRUCTURES  | 3       |
| CSCI 3660 | THEORY OF COMPUTATION                                    | 3       |
| CSCI 3710 | INTRODUCTION TO DIGITAL DESIGN AND COMPUTER ORGANIZATION | 3       |

## Core Courses

The five courses listed below provide an overall breadth in the areas of languages, algorithms, architecture, operating systems, and software engineering. Refer to the UNO Graduate College Quality of Work Standards for additional grade requirements.

Students selecting the thesis/project option or declaring a concentration area as part of their program are required to take three core courses; students selecting coursework option with no area of concentration must

take all five core courses (note that some core courses are needed as prerequisites for certain areas of concentration).

## Coursework Option

| Code   | Title                                      | Credits   |
|--|--|-----------|
| <b>Core Courses</b>  |  |           |
| CSCI 8000  | ADVANCED CONCEPTS IN PROGRAMMING LANGUAGES | 3         |
| CSCI/MATH 8080   | DESIGN AND ANALYSIS OF ALGORITHMS          | 3         |
| CSCI 8150  | ADVANCED COMPUTER ARCHITECTURE             | 3         |
| CSCI 8530  | ADVANCED OPERATING SYSTEMS                 | 3         |
| CSCI 8700  | SOFTWARE SPECIFICATIONS AND DESIGN         | 3         |
| <b>Electives</b>   |  |           |
| Select either three or five graduate-level computer science courses depending on whether a computer science area of concentration is declared.     |  |           |
| <b>Concentrations</b>  |  |           |
| All areas of concentration require four classes selected according to the requirements of each concentration. See Computer Science Concentrations. |  |           |
| CSCI 8910  | MASTER OF SCIENCE CAPSTONE <sup>1</sup>    | 3         |
| <b>TOTAL</b>   |  | <b>33</b> |

<sup>1</sup> The capstone course should be taken only after students have completed **at least 75%** of course requirements for the major, this includes all core classes. Students with insufficient progress toward degree completion are prohibited from enrolling. Students must have an overall GPA of at least a 3.0 to register for the capstone course.

## Thesis Option

| Code   | Title                                      | Credits   |
|--|--|-----------|
| <b>Core Courses</b>  |  |           |
| Select three of the following:   |  | 9         |
| CSCI 8000  | ADVANCED CONCEPTS IN PROGRAMMING LANGUAGES |           |
| CSCI/MATH 8080   | DESIGN AND ANALYSIS OF ALGORITHMS          |           |
| CSCI 8150  | ADVANCED COMPUTER ARCHITECTURE             |           |
| CSCI 8530  | ADVANCED OPERATING SYSTEMS                 |           |
| CSCI 8700  | SOFTWARE SPECIFICATIONS AND DESIGN         |           |
| <b>Electives</b>   |  |           |
| Select any five additional graduate-level computer science courses.  |  |           |
| <b>Concentrations</b>  |  |           |
| All areas of concentration require four classes selected according to the requirements of each concentration. See Computer Science Concentrations. |  |           |
| CSCI 8990  | THESIS                                     | 6         |
| <b>Total</b>   |  | <b>30</b> |

## Project Option

| Code                           | Title                                      | Credits |
|--------------------------------|--|---------|
| <b>Core Courses</b>            |  |         |
| Select three of the following: |  | 9       |
| CSCI 8000                      | ADVANCED CONCEPTS IN PROGRAMMING LANGUAGES |         |

|                |                                    |
|----------------|------------------------------------|
| CSCI/MATH 8080 | DESIGN AND ANALYSIS OF ALGORITHMS  |
| CSCI 8150      | ADVANCED COMPUTER ARCHITECTURE     |
| CSCI 8530      | ADVANCED OPERATING SYSTEMS         |
| CSCI 8700      | SOFTWARE SPECIFICATIONS AND DESIGN |

**Electives**

Select any five additional graduate-level computer science courses.

**Concentrations**

All areas of concentration require four classes selected according to the requirements of each concentration. See Computer Science Concentrations.

|              |   |           |
|--------------|---|-----------|
| CSCI 8960    | THESIS EQUIVALENT PROJECT IN COMPUTER SCIENCE | 6         |
| <b>Total</b> |   | <b>30</b> |

**Total Credit Hours**

Thesis Option: 30 hours

Project Option: 30 hours

Coursework Option: 33 hours

**Concentrations****Artificial Intelligence Concentration**

The concentration in artificial intelligence provides students with an in-depth understanding of the principles and technologies used to embody machines with human-like intelligent capabilities. Students taking this concentration will have an opportunity to learn, as well as perform hands-on experiments in different areas of artificial intelligence such as software agents, multi-agent and multi-robot systems, machine vision and image processing technologies, neural network based adaptive software systems, heuristics and stochastic optimization techniques for critical decision making, machine learning and knowledge engineering techniques for embedding intelligence in computers and information systems.

Students must take any three (3) of the five (5) core courses listed under the Requirements tab (9 hours).

| Code                           | Title   | Credits   |
|--------------------------------|---|-----------|
| <b>Required Courses</b>        |   |           |
| CSCI 8456                      | PRINCIPLES OF ARTIFICIAL INTELLIGENCE             | 3         |
| <b>Elective Courses</b>        |   |           |
| Select three of the following: |   | 9         |
| CSCI 8110                      | ADVANCED TOPICS IN ARTIFICIAL INTELLIGENCE        |           |
| CSCI 8300                      | IMAGE PROCESSING AND COMPUTER VISION              |           |
| CSCI 8360                      | MACHINE LEARNING FOR TEXT                         |           |
| CSCI 8450                      | ADVANCED TOPICS IN NATURAL LANGUAGE UNDERSTANDING |           |
| CSCI 8476                      | PATTERN RECOGNITION                               |           |
| CSCI/MATH 8480                 | MULTI-AGENT SYSTEMS AND GAME THEORY               |           |
| CSCI 8486                      | ALGORITHMS FOR ROBOTICS                           |           |
| CSCI 8590                      | FUNDAMENTALS OF DEEP LEARNING                     |           |
| <b>Total Credits</b>           |   | <b>12</b> |

**Database and Knowledge Engineering Concentration**

The database and knowledge engineering concentration is designed to introduce students to preliminary as well as advanced concepts in data and knowledge management.

Students must take any three (3) of the five (5) core courses listed under the Requirements tab (9 hours).

| Code                         | Title  | Credits   |
|------------------------------|--|-----------|
| <b>Required Courses</b>      |  |           |
| CSCI 8856                    | DATABASE MANAGEMENT SYSTEMS  | 3         |
| CSCI 8340                    | DATABASE MANAGEMENT SYSTEMS II                                       | 3         |
| CSCI 8360                    | MACHINE LEARNING FOR TEXT  | 3         |
| <b>Elective Courses</b>      |  |           |
| Select one of the following: |  | 3         |
| CSCI 8040                    | LARGE SCALE NETWORK ANALYSIS ALGORITHMS                              |           |
| CSCI 8050                    | ALGORITHMIC GRAPH THEORY   |           |
| CSCI 8350                    | DATA WAREHOUSING AND DATA MINING                                     |           |
| CSCI 8390                    | ADVANCED TOPICS IN DATA BASE MANAGEMENT                              |           |
| CSCI 8876                    | DATA MANAGEMENT AND KNOWLEDGE DISCOVERY IN COMPUTING AND INFORMATICS |           |
| <b>Total Credits</b>         |  | <b>12</b> |

**Dependable Computing Systems Concentration**

The objective of the dependable computing systems (DCS) concentration is to provide the students with a broad introduction to the design and evaluation of secure and dependable distributed computing systems. The concentration focuses on the theory, development, performance evaluation, and testing of systems to cope with the today's complex challenges such as failures, malicious adversaries, integrity, safety, and availability. The general domains include network security, software assurance, and fault tolerance. Students will be exposed to both software and hardware aspects for building such systems.

Students must take any three (3) of the five (5) core courses listed under the Requirement tab (9 hours).

| Code                         | Title   | Credits   |
|------------------------------|---|-----------|
| <b>Required Courses</b>      |   |           |
| CSCI 8410                    | DISTRIBUTED SYSTEMS AND NETWORK SECURITY          | 3         |
| CSCI 8430                    | TRUSTED SYSTEM DESIGN, ANALYSIS AND DEVELOPMENT   | 3         |
| <b>Elective Courses</b>      |   |           |
| Select two of the following: |   | 6         |
| CSCI 8420                    | SOFTWARE ASSURANCE                                |           |
| CYBR 8436                    | QUANTUM COMPUTING AND CRYPTOGRAPHY                |           |
| CSCI 8450                    | ADVANCED TOPICS IN NATURAL LANGUAGE UNDERSTANDING |           |
| CSCI 8610                    | FAULT TOLERANT DISTRIBUTED SYSTEMS                |           |
| CSCI 8760                    | FORMAL METHODS IN SOFTWARE ENGINEERING            |           |
| <b>Total Credits</b>         |   | <b>12</b> |

## Network Technologies Concentration

The concentration in network technologies will equip students to design, build, manage and leverage today's complex communication networks. This program covers not only a blend of theoretical topics and practical examples, but also state of the art network technologies such as mobile computing, distributed systems, wireless technologies, and network security.

Students must take any three (3) of the five (5) core courses listed under the Requirements tab (9 hours).

| Code                           | Title                                   | Credits   |
|--------------------------------|---|-----------|
| <b>Required Course</b>         |   |           |
| CSCI 8210                      | ADVANCED COMMUNICATIONS NETWORKS        | 3         |
| <b>Elective Courses</b>        |   |           |
| Select three of the following: |   | 9         |
| CSCI 8040                      | LARGE SCALE NETWORK ANALYSIS ALGORITHMS |           |
| CSCI 8050                      | ALGORITHMIC GRAPH THEORY                |           |
| CSCI/MATH 8156                 | GRAPH THEORY & APPLICATIONS             |           |
| CSCI 8610                      | FAULT TOLERANT DISTRIBUTED SYSTEMS      |           |
| CSCI 8620                      | MOBILE COMPUTING AND WIRELESS NETWORKS  |           |
| <b>Total Credits</b>           |   | <b>12</b> |

## Software Engineering Concentration

The concentration in software engineering is designed to address the growing market demand for software engineers. The concentration covers fundamental and advanced principles in all aspects of software development, equipping students with the necessary technical background to quickly adapt to rapidly changing software engineering practices and technologies.

Students must take CSCI 8700 as one of the three (3) core courses chosen from the Requirements tab (9 hours).

| Code                       | Title   | Credits   |
|----------------------------|---|-----------|
| <b>Elective Courses</b>    |   |           |
| Select 4 of the following: |   | 12        |
| CSCI 8256                  | HUMAN COMPUTER INTERACTION                      |           |
| CSCI 8266                  | USER EXPERIENCE DESIGN                          |           |
| CSCI/CYBR 8420             | SOFTWARE ASSURANCE                              |           |
| CSCI 8430                  | TRUSTED SYSTEM DESIGN, ANALYSIS AND DEVELOPMENT |           |
| CSCI 8710                  | MODERN SOFTWARE DEVELOPMENT METHODOLOGIES       |           |
| CSCI 8760                  | FORMAL METHODS IN SOFTWARE ENGINEERING          |           |
| CSCI 8790                  | ADVANCED TOPICS IN SOFTWARE ENGINEERING         |           |
| <b>Total Credits</b>       |   | <b>12</b> |

## Systems Concentration

The systems concentration pertains to the advances in ubiquitous and emerging technologies that span over the complex cores of computing systems such as network communication, distributed computing, operating systems, and computer architecture. Recent advances in computing systems include cloud computing, social computing, Internet of Things, and cyber-physical-systems. The concentration provides the students with the fundamentals of computing systems that can be pursued in hardware, software or a combination of both.

Students must take CSCI 8150 and CSCI 8530 as two of the three (3) core courses chosen from the Requirements tab (9 hours).

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>  |   |           |
| Select 9 hours from the following:                                 |   | 9         |
| CSCI 8160  | INTRODUCTION TO VLSI DESIGN                       |           |
| CSCI 8446  | INTRODUCTION TO PARALLEL COMPUTING                |           |
| CSCI 8610  | FAULT TOLERANT DISTRIBUTED SYSTEMS                |           |
| CSCI 8706  | COMPILER CONSTRUCTION                             |           |
| <b>Elective Courses</b>  |   |           |
| Select 3 of the following:   |   | 3         |
| CSCI 8040  | LARGE SCALE NETWORK ANALYSIS ALGORITHMS           |           |
| CSCI 8050  | ALGORITHMIC GRAPH THEORY                          |           |
| CSCI 8156  | GRAPH THEORY & APPLICATIONS                       |           |
| CSCI 8430  | TRUSTED SYSTEM DESIGN, ANALYSIS AND DEVELOPMENT   |           |
| CSCI 8450  | ADVANCED TOPICS IN NATURAL LANGUAGE UNDERSTANDING |           |
| CSCI 8620  | MOBILE COMPUTING AND WIRELESS NETWORKS            |           |
| CSCI 8626  | 3D COMPUTER GRAPHICS                              |           |
| Any course not taken listed under required courses                 |   |           |
| Depending on student's interest, a graduate course approved by GPC |   |           |
| <b>Total Credits</b>   |   | <b>12</b> |

## Quality of Work Standards

The Graduate College Quality of Work Standards shall be applied to foundation courses (deficiency courses) as well as courses taken as part of the degree program. In particular, the GPC will recommend to the Graduate College that any

1. Student receiving a grade of "C-" or below in any graduate course or undergraduate foundation course will be dismissed from the program or, in the case of unclassified or non-degree students, be automatically denied admission.
2. Student receiving a grade of "C+" or "C" in any undergraduate foundation course or graduate course will be placed on probation or dismissed from the program. Graduate courses may be repeated once with GPC approval. Undergraduate foundation courses will follow the repeat policy for IS&T undergraduate courses.
3. At most three graduate courses ending in 6 (8xx6) will be counted toward the degree requirements. Graduate courses with an undergraduate component (listed under Undergraduate Deficiencies) are not eligible as elective courses.
4. Student must have a minimum grade point average (GPA) of 3.0 ("B"), with no grades lower than a "B-".

## Artificial Intelligence Certificate

The objective of the certificate in artificial intelligence is to expose students to the principles and technologies used to embody machines with human-like intelligent capabilities and to enable the machines to assist humans in performing complex and hazardous tasks. Students completing this certificate program have an opportunity to learn as well as perform hands-on experiments in different areas of artificial intelligence, including automated software systems such as software agents, multi-agent and multi-robot systems, machine vision and image processing technologies, neural network-based adaptive software systems, heuristics and stochastic

optimization techniques for critical decision making, and machine learning and knowledge engineering techniques that embed intelligence in computers and information systems.

## Program Related Information

### Program Contact

Michelle Perone, Graduate Advisor  
402.554.3819  
mperone@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/computer-science/prospective-students/graduate-programs.php>)**

### Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Summer 2026: March 1
- Fall 2026: July 1

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a resume detailing your work experience and background (if applicable)

## Degree Requirements

### Provisional Admission

Students who have not taken an undergraduate data structures course with a grade of "B-" or better must do so before they will be allowed to continue in the program.

| Code                           | Title   | Credits |
|--------------------------------|---|---------|
| CSCI 2030                      | MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE      | 3       |
| CSCI 3320/8325                 | DATA STRUCTURES (or equivalent)                   | 3       |
| CSCI 3660                      | THEORY OF COMPUTATION                             | 3       |
| Code                           | Title   | Credits |
| Required Course                |   |         |
| CSCI 8456                      | PRINCIPLES OF ARTIFICIAL INTELLIGENCE             | 3       |
| Electives                      |   |         |
| Select three of the following: |   | 9       |
| CSCI 8110                      | ADVANCED TOPICS IN ARTIFICIAL INTELLIGENCE        |         |
| CSCI 8300                      | IMAGE PROCESSING AND COMPUTER VISION              |         |
| CSCI 8450                      | ADVANCED TOPICS IN NATURAL LANGUAGE UNDERSTANDING |         |

|                      |                                     |           |
|----------------------|-------------------------------------|-----------|
| CSCI 8476            | PATTERN RECOGNITION                 |           |
| CSCI 8480            | MULTI-AGENT SYSTEMS AND GAME THEORY |           |
| CSCI 8486            | ALGORITHMS FOR ROBOTICS             |           |
| CSCI 8590            | FUNDAMENTALS OF DEEP LEARNING       |           |
| <b>Total Credits</b> |                                     | <b>12</b> |

### Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- "Incomplete" and "NR" grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

### Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

## Communication Networks Certificate

The communication network certificate program is a career program designed to meet the growing industry demand for qualified, highly trained individuals in the field of computer network systems. The certificate is designed to give the working professional both a conceptual view and an in-depth understanding of the latest technologies. The program includes courses ranging from basic concepts such as local area networks to advanced networking concepts such as mobile wireless communication systems and networks.

## Program Related Information

### Program Contact

Michelle Perone, Graduate Advisor  
402.554.3819  
mperone@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/degrees-programs.php>)**

### Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: November 1
- Summer 2026: March 1
- Fall 2026: July 1

## Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a resume detailing your work experience and background (if applicable).

## Degree Requirements

### Provisional Admission

Students who have not taken an undergraduate data structures course or an introductory communication networks course with a grade of “B-” or better in each course must do so before they will be allowed to continue in the program.

| Code           | Title                                  | Credits |
|----------------|--|---------|
| CSCI 3320/8325 | DATA STRUCTURES (or equivalent)        | 3       |
| CSCI 3550/8555 | COMMUNICATION NETWORKS (or equivalent) | 3       |

| Code   | Title                                   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>  |   |           |
| If a required course is waived, it must be replaced with another course from the electives listed below. |   |           |
| CSCI 8210  | ADVANCED COMMUNICATIONS NETWORKS        | 3         |
| CSCI 8620  | MOBILE COMPUTING AND WIRELESS NETWORKS  | 3         |
| <b>Electives</b>   |   |           |
| Select two of the following:   |   | 6         |
| CSCI 8040  | LARGE SCALE NETWORK ANALYSIS ALGORITHMS |           |
| CSCI 8156  | GRAPH THEORY & APPLICATIONS             |           |
| CSCI 8610  | FAULT TOLERANT DISTRIBUTED SYSTEMS      |           |
| <b>Total Credits</b>   |   | <b>12</b> |

## Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- “Incomplete” and “NR” grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

## Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

## Machine Learning Certificate

The recent advances in machine learning (ML) have made significant impacts in diverse fields such as health care, agriculture, transportation, education, global security, etc. Machine learning experts are in very high demand for right now and the foreseeable future. The ML graduate certificate will prepare students to become data scientists, machine learning algorithm designers, deep learning systems engineers, computer vision experts, software and application developers, and other machine learning related professionals.

## Program Related Information

### Program Contact

Michelle Perone, Graduate Advisor  
402.554.3819  
[mperone@unomaha.edu](mailto:mperone@unomaha.edu)

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/computer-science/prospective-students/graduate-programs.php>)**

## Admissions

General Application Requirements and Admission Criteria (<https://catalog.unomaha.edu/graduate/admission/>)

## Application Deadlines

- Spring 2026: November 1
- Summer 2026: March 1
- Fall 2026: July 1

## Other Requirements

- Individuals with an undergraduate degree and one to two years of work experience in information systems (IS) related roles are eligible to apply for this certificate programs.
- The minimum undergraduate grade point average requirement for the data management certificate is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a 4-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission. Minimum scores required for this program are:
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a detailed resume indicating your work experience and background



## Degree Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>Recommended Prerequisite Course</b>   |  |           |
| CSCI 2410  | INTRODUCTION TO DATA ANALYTICS USING PYTHON  |           |
| <b>Required Courses</b>  |  |           |
| CSCI 8590  | FUNDAMENTALS OF DEEP LEARNING                | 3         |
| CSCI 8360  | MACHINE LEARNING FOR TEXT                    | 3         |
| If a required course is waived, it must be replaced with another course from the electives list below. |  |           |
| <b>Electives</b>   |  | <b>6</b>  |
| CSCI 8300  | IMAGE PROCESSING AND COMPUTER VISION         |           |
| CSCI 8110  | ADVANCED TOPICS IN ARTIFICIAL INTELLIGENCE   |           |
| BMI 8400   | LINEAR ALGEBRA FOR ADVANCED COMPUTING AND AI |           |
| <b>Total Credits</b>   |  | <b>12</b> |

## Software Engineering Certificate

Software engineering is the systematic application of engineering and computer science principles to the development, maintenance and analysis of complex software systems. The demand for software engineers is very high, and is expected to continue for many years to come. The certificate in software engineering will provide students with technical knowledge and skills to apply modern software engineering processes, methods, and tools to tackle real-world requirements, equipping them for career advancement as software professionals.

## Program Related Information

### Program Contact

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/degrees-programs.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Summer 2026: March 1
- Fall 2026: July 1

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- **Resume:** Submit a detailed resume highlighting your work experience and background (if applicable)

## Degree Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Prerequisite Courses</b>  |   |           |
| CSCI 3320/8325   | DATA STRUCTURES                                 | 3         |
| CSCI 4830/8836   | INTRODUCTION SOFTWARE ENGINEERING               | 3         |
| <b>Required Courses</b>  |   |           |
| If a required course is waived, it must be replaced with another course from the electives list below. |   |           |
| CSCI 8700  | SOFTWARE SPECIFICATIONS AND DESIGN              | 3         |
| CSCI 8710  | MODERN SOFTWARE DEVELOPMENT METHODOLOGIES       | 3         |
| <b>Elective Courses</b>  |   | <b>6</b>  |
| Select two of the following:   |   |           |
| CSCI 8256  | HUMAN COMPUTER INTERACTION                      |           |
| CSCI 8266  | USER EXPERIENCE DESIGN                          |           |
| CSCI 8420  | SOFTWARE ASSURANCE                              |           |
| CSCI 8430  | TRUSTED SYSTEM DESIGN, ANALYSIS AND DEVELOPMENT |           |
| CSCI 8760  | FORMAL METHODS IN SOFTWARE ENGINEERING          |           |
| CSCI 8790  | ADVANCED TOPICS IN SOFTWARE ENGINEERING         |           |
| <b>Total Credits</b>   |   | <b>12</b> |

## Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. Information can be found here (<http://www.ses.unomaha.edu/registrar/graduate.php>). If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- "Incomplete" and "NR" grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

## Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

# Systems and Architecture Certificate

This certificate provides students with knowledge in the underlying architecture of computers. Students may choose either the hardware track or the software track. In the hardware track, students gain more in-depth knowledge of the field. Students in this track will develop skills to perform system and component design, quality assurance, and testing. In the software track, knowledge in the underlying architecture helps in generating and understanding optimized software. Students in this track will develop skills that will help them perform systems programming, language processing, and system administration.

## Program Related Information

### Program Contact

Michelle Perone, Graduate Advisor  
402.554.3819  
mperone@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/degrees-programs.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Summer 2026: March 1
- Fall 2026: July 1

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a detailed resume highlighting your work experience and background (if applicable).

## Degree Requirements

### Hardware Track

| Code                        | Title  | Credits |
|-----------------------------|--|---------|
| <b>Prerequisite Courses</b> |  |         |
| CSCI 3320/8325              | DATA STRUCTURES  | 3       |
| CSCI 3710                   | INTRODUCTION TO DIGITAL DESIGN AND COMPUTER ORGANIZATION | 3       |
| CSCI 4350                   | COMPUTER ARCHITECTURE                                    | 3       |

| Code  | Title                          | Credits |
|---|--------------------------------|---------|
| <b>Required Courses</b>   |                                |         |
| If a required course is waived, it must be replaced with another course from the electives below. |                                |         |
| CSCI 8150   | ADVANCED COMPUTER ARCHITECTURE | 3       |
| CSCI 8530   | ADVANCED OPERATING SYSTEMS     | 3       |
| <b>Elective Courses</b>   |                                |         |

|                              |                                    |   |
|------------------------------|------------------------------------|---|
| Select two of the following: |                                    | 6 |
| CSCI 8160                    | INTRODUCTION TO VLSI DESIGN        |   |
| CSCI 8446                    | INTRODUCTION TO PARALLEL COMPUTING |   |
| CSCI 8610                    | FAULT TOLERANT DISTRIBUTED SYSTEMS |   |
| CSCI 8626                    | 3D COMPUTER GRAPHICS               |   |

**Total Credits** **12**

### Software Track

| Code                        | Title                               | Credits |
|-----------------------------|-------------------------------------|---------|
| <b>Prerequisite Courses</b> |                                     |         |
| CSCI 3320/8325              | DATA STRUCTURES                     | 3       |
| CSCI 4220                   | PRINCIPLES OF PROGRAMMING LANGUAGES | 3       |
| CSCI 8506/4500              | OPERATING SYSTEMS                   | 3       |

| Code  | Title                          | Credits |
|---|--------------------------------|---------|
| <b>Required Courses</b>   |                                |         |
| If a required course is waived, it must be replaced with another course from the electives below. |                                |         |
| CSCI 8150   | ADVANCED COMPUTER ARCHITECTURE | 3       |
| CSCI 8530   | ADVANCED OPERATING SYSTEMS     | 3       |

|                              |                                    |   |
|------------------------------|------------------------------------|---|
| <b>Elective Courses</b>      |                                    |   |
| Select two of the following: |                                    | 6 |
| CSCI 8446                    | INTRODUCTION TO PARALLEL COMPUTING |   |
| CSCI 8706                    | COMPILER CONSTRUCTION              |   |
| CSCI 8610                    | FAULT TOLERANT DISTRIBUTED SYSTEMS |   |
| CSCI 8626                    | 3D COMPUTER GRAPHICS               |   |

**Total Credits** **12**

### Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. Information can be found here (<http://www.ses.unomaha.edu/registrar/graduate.php>). If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- "Incomplete" and "NR" grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

### Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

## Computer Science Education Degree Programs Offered

- Computer Science Education, MS (p. 1053)
- Computer Science Education Certificate (p. 1054)

## Computer Science Education, MS

This degree program is intended for those with a passion for the teaching and learning of computational thinking, computer science, and information technology skills. By developing both content knowledge and pedagogical skills related to the computing disciplines, this program is ideal for educators looking to empower young people to become the creators of next generation technologies.

In completing program coursework, certified Nebraska teachers will also meet requirements for the IT supplemental endorsement. Teachers from other states should consult with their corresponding state officials to consider local credentialing applicability.

## Program Related Information

### Program Contact

Alfredo Perez, PhD, Graduate Program Chair (GPC)  
402.554.3976  
alfredoperez@unomaha.edu

Michelle Perone, Graduate Advisor  
402.554.3819  
mperone@unomaha.edu

### Prospective Student Admission

advising-cist@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-information-science-and-technology/computer-science-education/graduate/ms-csed.php>)**

### Other Program Related Information

Students who hold current Nebraska teaching certification are eligible for the IT Supplemental Endorsement upon successfully completing the 15 hour core courses.

Grades of 'C' or lower cannot be used when applying for the State of Nebraska IT Supplemental Endorsement.

### Student Learning Outcomes

Upon completion of the MS in computer science education, students will be able to:

- Demonstrate CS knowledge and skills by creating computational artifacts.
- Articulate a vision for fair practices in CS education.
- Responsively implement evidence-based pedagogy to facilitate meaningful learning experiences.
- Design learning experiences that implement evidence-based pedagogy.
- Describe relevant and recent research finding in computer science education including how they might be applied in the classroom.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet minimum language proficiency score requirement in order to be considered for graduate admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose** addressing the following:
  - Describe your academic and professional journey. Discuss your background personal and professional experiences, and your current educational context. Be sure to explain your motivation for pursuing this program at this point in your career.
  - In order to advise you on initial coursework, please describe any prior formal or informal training you have completed in computing, computer science, and information technology. This includes, but is not limited to programming/coding, web design, systems administration, computing networking, databases, and computer applications.
  - Discuss your post-master's degree plans. How will the MS in computer science education contribute to your future endeavors related to P-12 students, educators, administrators or other community stakeholders.
- **Resume:** Professional resume or curriculum vitae
- Copy of your current teacher certification (if applicable)
- International students who do not intend to teach in the United States may be eligible for admission.

## Degree Requirements

| Code                              | Title   | Credits   |
|-----------------------------------|---|-----------|
| <b>Required Core Courses</b>      |   | <b>15</b> |
| TED 8006                          | SPECIAL METHODS IN THE CONTENT AREA             | 3         |
| CSTE 8020                         | EXPLORING COMPUTER SCIENCE FOR TEACHERS         | 3         |
| or CSTE 8030                      | COMPUTER SCIENCE PRINCIPLES FOR TEACHERS        |           |
| CSTE 8040                         | OBJECT ORIENTED PROGRAMMING FOR TEACHERS        | 3         |
| CSCI 8366                         | PRINCIPLES OF SECURE SYSTEM DESIGN              | 3         |
| or CYBR 8366                      | PRINCIPLES OF SECURE SYSTEM DESIGN              |           |
| CSCI 8836                         | INTRODUCTION SOFTWARE ENGINEERING               | 3         |
| or CSCI 8256                      | HUMAN COMPUTER INTERACTION                      |           |
| or CSCI 8266                      | USER EXPERIENCE DESIGN                          |           |
| or HCC 8220                       | DESIGN PROCESS                                  |           |
| <b>Required Extension Courses</b> |   | <b>6</b>  |
| CSCI 8010                         | FOUNDATIONS OF COMPUTER SCIENCE                 | 3         |
| TED 8050                          | DATA-DRIVEN DECISION MAKING FOR EDUCATORS       | 3         |
| or TED 8860                       | INVENTION & INNOVATION IN ENGINEERING EDUCATION |           |

**Electives****3-6**

The following courses are considered standing electives that have already been approved for all students. Students may request a course not listed here be counted as an elective in writing to the GPC. Such requests should be made prior to enrolling in the course.

All graduate courses offered by the College of IS&T not counted elsewhere in the plan of study, including BMI, CIST, CSCI, CSTE, CYBR, ISQA, and HCC 8xxx

CSTE 8920 SPECIAL TOPICS IN CS EDUCATION

MTCH 8040 TOPICS IN MATHEMATICAL COMPUTING

STEM/TED 8420 TRENDS AND TEACHING STRATEGIES IN SCIENCE EDUCATION

STEM/TED 8430 SCHOOL CURRICULUM PLANNING

STEM/BIOL 8450 BIOLOGY EDUCATION RESEARCH METHODS

STEM/TED 8840 ENGINEERING EDUCATION EXTERNSHIP

TED 8540 DIGITAL CITIZENSHIP

TED 8550 TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING

TED 8580 ONLINE TEACHING AND LEARNING

TED 8050 or TED 8860 can also be used as electives if not used as extension coursework.

**Exit Requirement****3-6****Thesis Option <sup>1</sup>****6**

CSTE 8990 THESIS

**Project Option <sup>2</sup>****6**

CSTE 8960 THESIS EQUIVALENT PROJECT IN CS EDUCATION

**Capstone <sup>3</sup>****3**

CSTE 8910 CAPSTONE IN CS EDUCATION

**Total Credits****30**

<sup>1</sup> Thesis credits must be completed over two or more academic terms.

<sup>2</sup> Project credits must be completed over two or more academic terms.

<sup>3</sup> The capstone course may only be taken upon completion of at least 21 credit hours in the program.

## Computer Science Education Certificate

This graduate certificate is intended for educators seeking to extend their knowledge and skills in the teaching computational thinking, computer science, and information technology. In completing program coursework, certified Nebraska teachers will also meet requirements for the IT supplemental endorsement. Teachers from other states should consult with their corresponding state officials to consider local credentialing applicability. Prior background in computer science is not required.

## Program Related Information

### Program Contact

Alfredo Perez, PhD, Graduate Program Chair (GPC)  
402.554.3976  
alfredoperez@unomaha.edu

Michelle Perone, Graduate Advisor  
402.554.3819  
mperone@unomaha.edu

## Prospective Student Admission

advising-cist@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-information-science-and-technology/computer-science-education/graduate/csed-grad-cert.php>)**

## Other Program Related Information

Students who hold current Nebraska teaching certificates are eligible for the IT supplemental endorsement upon completing all required courses except CSCI 8010. Those who seek to earn only the IT supplemental endorsement should apply for this graduate certificate program.

Grades of 'C' or lower cannot be used when applying for the State of Nebraska IT supplemental endorsement.

All students must apply for completion of the graduate certificate through MavLINK. Please see the Academic Calendar for deadlines on applying.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

## Other Requirements:

- International students who do not intend to teach in the US may be eligible for admission.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose** addressing the following:
  - Describe your academic and professional journey. Discuss your background personal and professional experiences, and your current educational context. Be sure to explain your motivation for pursuing this program at this point in your career.
  - In order to advise you on initial coursework, please describe any prior formal or informal training you have completed in computing, computer science, and information technology. This includes, but is not limited to, programming/coding, web design, systems administration, computing networking, databases, and computer applications.
  - Finally discuss your post-certificate degree plans. How will the certificate in computer science education contribute to your future endeavors related to P-12 students, educators, administrators or other community stakeholders?
- **Resume:** Professional resume or curriculum vitae
- A copy of your current teacher certification (if applicable)

## Degree Requirements

| Code                    | Title                               | Credits |
|-------------------------|-------------------------------------|---------|
| <b>Required Courses</b> |                                     |         |
| TED 8006                | SPECIAL METHODS IN THE CONTENT AREA | 3       |

|                      |  |           |
|----------------------|--|-----------|
| CSTE 8020            | EXPLORING COMPUTER SCIENCE FOR TEACHERS  | 3         |
| or CSTE 8030         | COMPUTER SCIENCE PRINCIPLES FOR TEACHERS |           |
| CSTE 8040            | OBJECT ORIENTED PROGRAMMING FOR TEACHERS | 3         |
| CSCI/CYBR 8366       | PRINCIPLES OF SECURE SYSTEM DESIGN       | 3         |
| CSCI 8836            | INTRODUCTION SOFTWARE ENGINEERING        | 3         |
| or CSCI 8256         | HUMAN COMPUTER INTERACTION               |           |
| or CSCI 8266         | USER EXPERIENCE DESIGN                   |           |
| or HCC 8220          | DESIGN PROCESS                           |           |
| CSCI 8010            | FOUNDATIONS OF COMPUTER SCIENCE          | 3         |
| <b>Total Credits</b> |  | <b>18</b> |

## Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- "Incomplete" and "NR" grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

## Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

## Counseling, MS

The purpose of the Department of Counseling is to prepare a diverse student population at the master's degree level for professional service as school counselors, clinical mental health counselors, student affairs professionals, and/or for advanced study. Graduates of the program are prepared to function professionally within their area(s) of concentration.

As dedicated practitioners, reflective scholars, and responsible citizens, our graduates are prepared to fill the need for highly trained professionals. Graduates are trained to support the broad range of counseling needs of the metropolitan community including: individual, couples, family and group counseling.

## Program Related Information

### Program Contact

unocounadmission@unomaha.edu  
402.554.2764

**Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/counseling/>)**

### Other Program Related Information

- Earning a graduate degree in clinical mental health counseling or school counseling satisfies only the academic requirements for licensure and/or certification in the state of Nebraska. Students should consult the appropriate state agency/department for guidance on gaining state licensure and/or certification.
- Students should be aware that licensure and/or certification requirements often vary by state. Students interested in gaining professional licensure and/or certification outside of Nebraska should consult their intended state's licensing/certification office/department for appropriate guidelines and timelines.
- An alternative counseling endorsement is available for students in the school counseling concentration who do not hold degrees in education. This endorsement eliminates the two-year teaching requirement and includes an additional 12 credit hours. Students choosing the alternative endorsement route will complete a 60 credit school counseling curriculum instead of the 48 credit school counseling curriculum.
- Successful completion of all courses and a comprehensive exam in the student's respective concentration are requirements for graduation.
- Graduates are recommended only for positions consistent with the concentration they completed.
- Professional background checks are required for all students following admission to the program and again prior to beginning their practicum experience.
- Candidates are admitted and permitted to continue programs in counseling on the basis of their potential for successful training and professional practice. Candidates are evaluated on an ongoing basis while enrolled with respect to their suitability for continuation in the program prior to taking the counseling practicum or internship courses. Specific course and grade requirements to take practicum courses are available in the Department of Counseling.
- The P-12 school counseling and clinical mental health counseling concentrations are accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP; 2009), the national accrediting agency for counselor education programs.

## Unclassified Students

Students who have already earned a master's degree in counseling and need to enroll in additional courses for licensure should apply as unclassified students. Unclassified students are allowed to take courses for which they meet the prerequisite. Successful completion of graduate courses as an unclassified student does not obligate the department to accept those courses for credit toward the fulfillment of degree requirements. Formal advisement in an endorsement area is required.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- **Clinical Mental Health Counseling and P-12 Counseling**
  - Spring 2026: September 15
  - Summer 2026: February 15
  - Fall 2026: February 15



### • Student Affairs Practice in Higher Education and Unclassified

- **Spring 2026, Summer 2026, and Fall 2026:** Applications for this concentration are accepted on a rolling basis. All materials must be submitted prior to the semester in which the applicant has elected to begin coursework.
- Please note, applications submitted for the student affairs practice in higher education or unclassified cannot be changed to the clinical mental health counseling or P-12 counseling concentrations.

## Other Requirements

- Bachelor's degree
- Three credit hours of behavioral science coursework is suggested.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** 2 pages (double-spaced) addressing the following:
  - Reason(s) for pursuing the counseling profession,
  - Relevant experience,
  - Personal career goals,
  - Reason(s) for choosing UNO's Counseling program.
- **Resume or curriculum vitae**
- **Letters of Recommendation:**
  - Clinical Mental Health Counseling, P-12 Counseling and Unclassified require two letters of recommendation and should be from persons who can speak to the applicant's professional competence and/or academic ability.
  - Student Affairs Practice in Higher Education concentration requires no letters of recommendation.
- Group admissions interview (required for admission to the clinical mental health counseling and P-12 school counseling concentrations).

## Degree Requirements

| Code                             | Title  | Credits |
|----------------------------------|--|---------|
| <b>Concentrations</b>            |  |         |
| Select an area of concentration: |  |         |
|                                  | Clinical Mental Health Counseling            | 60      |
|                                  | P-12 School Counseling <sup>1</sup>          | 48      |
|                                  | Student Affairs Practice in Higher Education | 30      |

<sup>1</sup> Alternative endorsement for school counseling students without education degrees (60 hours). Contact your advisor for more information.

## Special Note

- Transfer credit is limited to nine hours except for credit earned within the University of Nebraska. Clinical Courses cannot be transferred, COUN 8030, COUN 8220, COUN 8250, COUN 8260.
- Only nine hours completed as non-degree at UNO are permitted to count toward a UNO counseling degree. Admission to the counseling program is not guaranteed for students who complete courses as non-degree.

## Exit Requirements

- Comprehensive Examination for concentration area.

## Concentrations

### Clinical Mental Health Counseling Concentration

| Code                                    | Title   | Credits |
|---|---|---------|
| <b>Required Courses</b>                 |   |         |
| COUN 8100<br>or TED 8010<br>or EDL 8010 | RESEARCH PROJECT IN COUNSELING<br>INTRODUCTION TO RESEARCH<br>INTRODUCTORY RESEARCH METHODS | 3       |
| COUN 8010                               | INTRODUCTION TO COUNSELING  | 3       |
| COUN 8110                               | HUMAN DEVELOPMENT AND PSYCHO-SOCIAL INTERVENTION STRATEGIES                                 | 3       |
| COUN 8030                               | COUNSELING PRACTICES <sup>1</sup>   | 3       |
| COUN 8040                               | ETHICAL ISSUES FOR PROFESSIONAL COUNSELORS  | 3       |
| COUN 8200                               | COUNSELING THEORIES   | 3       |
| COUN 8020                               | COUNSELING FOR WORK AND WELLNESS  | 3       |
| COUN 8230                               | APPRAISAL TECHNIQUES IN COUNSELING  | 3       |
| COUN 8360                               | GROUP THEORY & TECHNIQUES   | 3       |
| COUN 8400                               | ADVANCED THEORY AND TECHNIQUES IN COUNSELING  | 3       |
| COUN 8520                               | COUNSELING MULTICULTURAL AND DIVERSE POPULATIONS  | 3       |
| COUN 8610                               | INTRODUCTION TO MARITAL AND FAMILY THERAPY  | 3       |
| COUN 8700                               | CHILD AND ADOLESCENT COUNSELING   | 3       |
| COUN 8920                               | TREATMENT PLANNING AND THE DSM  | 3       |
| COUN 8280                               | TRAUMA, CRISIS, AND GRIEF COUNSELING  | 3       |
| COUN/SOWK 8516                          | CLINICAL TREATMENT ISSUES IN SUBSTANCE USE DISORDERS  | 3       |
| COUN 8220                               | COUNSELING PRACTICUM <sup>1</sup>   | 3       |
| COUN 8250                               | INTERNSHIP: CLINICAL MENTAL HEALTH COUNSELING <sup>1</sup>                                  | 3       |
| COUN 8260                               | ADVANCED INTERNSHIP: CLINICAL MENTAL HEALTH COUNSELING <sup>1</sup>                         | 3       |

### Elective

|  |   |
|--|---|
| Select three hours with the following graduate course prefixes: COUN, CRCJ, GERO, PA, PHHB, PSYC, SOC, SOWK, or SPED | 3 |
|--|---|

**Total Credits** **60**

<sup>1</sup> A student must receive grades of "B" or higher in clinical practice, practicum, and internship courses. (COUN 8030, COUN 8220, COUN 8250, and COUN 8260)

### P-12 School Counseling Concentration

| Code                                    | Title   | Credits |
|---|---|---------|
| <b>Required Courses</b>                 |   |         |
| COUN 8100<br>or TED 8010<br>or EDL 8010 | RESEARCH PROJECT IN COUNSELING<br>INTRODUCTION TO RESEARCH<br>INTRODUCTORY RESEARCH METHODS | 3       |
| COUN 8030                               | COUNSELING PRACTICES <sup>1</sup>   | 3       |
| COUN 8040                               | ETHICAL ISSUES FOR PROFESSIONAL COUNSELORS  | 3       |

|                      |   |           |
|----------------------|---|-----------|
| COUN 8110            | HUMAN DEVELOPMENT AND PSYCHO-SOCIAL INTERVENTION STRATEGIES | 3         |
| COUN 8200            | COUNSELING THEORIES   | 3         |
| COUN 8210            | ORGANIZATION & ADMINISTRATION OF SCHOOL COUNSELING PROGRAMS | 3         |
| COUN 8280            | TRAUMA, CRISIS, AND GRIEF COUNSELING                        | 3         |
| COUN 8330            | PRACTICUM FOR SCHOOL COUNSELORS <sup>1</sup>                | 3         |
| COUN 8430            | INTERNSHIP IN SCHOOL COUNSELING <sup>1</sup>                | 3         |
| COUN 8460            | ADVANCED INTERNSHIP IN SCHOOL COUNSELING <sup>1</sup>       | 3         |
| COUN 8520            | COUNSELING MULTICULTURAL AND DIVERSE POPULATIONS            | 3         |
| COUN 8630            | FOUNDATIONS AND ISSUES IN SECONDARY SCHOOL COUNSELING       | 3         |
| COUN 8650            | ISSUES IN ELEMENTARY AND MIDDLE SCHOOL COUNSELING           | 3         |
| COUN 8670            | CAREER DEVELOPMENT POST-SECONDARY TRANSITIONS               | 3         |
| COUN 8700            | CHILD AND ADOLESCENT COUNSELING                             | 3         |
| COUN 8740            | SCHOOL COUNSELING GROUPS                                    | 3         |
| <b>Total Credits</b> |   | <b>48</b> |

<sup>1</sup> A student must receive grades of "B" or higher in clinical practice, practicum, and internship courses. (COUN 8030, COUN 8330, COUN 8430, COUN 8460)

## Student Affairs Practice in Higher Education Concentration

| Code                    | Title  | Credits   |
|-------------------------|--|-----------|
| <b>Required Courses</b> |  |           |
| COUN 8030               | COUNSELING PRACTICES <sup>1</sup>                                | 3         |
| COUN 8850               | THE COLLEGE STUDENT EXPERIENCE                                   | 3         |
| COUN 8930               | HISTORY OF HIGHER EDUCATION AND STUDENT AFFAIRS                  | 3         |
| COUN 8940               | DIVERSITY AND WELLNESS ISSUES IN HIGHER EDUCATION                | 3         |
| COUN 8950               | ORGANIZATION, ADMINISTRATION, AND LEADERSHIP IN HIGHER EDUCATION | 3         |
| COUN 8980               | DIGITAL LEARNING: POLICY, PROGRAMMING, & SYSTEMS                 | 3         |
| COUN 8810               | LAW AND ETHICS IN HIGHER EDUCATION AND STUDENT AFFAIRS           | 3         |
| COUN 8820               | CRISIS AND EMERGENCY MANAGEMENT IN HIGHER EDUCATION              | 3         |
| COUN 8830               | CURRENT ISSUES IN HIGHER EDUCATION AND STUDENT AFFAIRS           | 3         |
| COUN 8450               | COLLEGE STUDENT PERSONNEL FIELD EXPERIENCE <sup>1</sup>          | 3         |
| <b>Total Credits</b>    |  | <b>30</b> |

<sup>1</sup> A student must receive grades of "B" or higher COUN 8030 and COUN 8450

## Academic Performance

**Ethical Conduct:** It should be understood that academic performance is not the only criterion for continuation in the program or for graduation.

Candidates are expected to maintain the highest standards of ethical conduct pertaining to academic course work, professional practice and research activity. Any breach in ethical conduct shall be subject to disciplinary action, regardless of the candidate's prior or current academic performance. See the "American Counseling Association Code of Ethics" for specific guidelines.

## Criminology and Criminal Justice

### Degree Programs Offered

- Criminology and Criminal Justice, MA (p. 1057)
- Criminology and Criminal Justice, MS (p. 1059)
- Criminology and Criminal Justice, PhD (p. 1060)
- Master of Public Administration, MPA-Criminology and Criminal Justice, MS (p. 1166)
- Master of Social Work, MSW-Criminology and Criminal Justice, MS (MSW/CRCJ) (p. 1062)

### Certificates Offered

- Managing Juvenile and Adult Populations Certificate (p. 1064)

## Criminology and Criminal Justice, MA

The Master of Arts (MA) degree is a 30-hour non-terminal degree designed to emphasize research activity and independent inquiry. This degree is recommended for those students seeking an interim degree prior to pursuing a doctoral degree. To complete the MA degree, students must write and orally defend a thesis. The thesis is an independent research project and an academic exercise that is written to the standards of the faculty members on the thesis committee. A thesis requires a committee of three faculty members and typically takes two semesters to complete.

## Program Related Information

### Program Contact

Justin Nix, PhD, MA Program Coordinator  
402.554.2610  
jnix@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/criminology-and-criminal-justice/graduate-programs/master-of-arts.php>)**

### Fast Track

The School of Criminology and Criminal Justice has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing any of the following:
  - BS in criminology and criminal justice on either the UNO or UNL campuses

- Double-major at UNO with a BS in criminology and criminal justice as either the primary or secondary major
- BMS with a concentration in criminology and criminal justice
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.25.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program. Successful completion of the graduate courses will be a significant consideration during the evaluation of admission to the MA or MS in Criminology and Criminal Justice.
  - The admit term must be after the completion term of the undergraduate degree.

Special Note: Eligible undergraduate students may enroll in any 8000-level CRCJ course approved by the SCCJ program.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 15
- Fall 2026: July 15

For those interested being considered for a graduate research assistantship, an April 1 deadline for fall admission is recommended.

### Other Requirements

- **Entrance Exam:** Graduate Record Exam (GRE), a score of 300 or higher is typically required for admission to the MA program, or to be considered for a research assistantship
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 95 with a minimum of 21 in each of the four areas, IELTS: 7.5 (8.0+ preferred), Duolingo: 125
  - All ESL students are required to take a proficiency assessment examination at UNO upon admission, which will be used to determine whether further assistance is required.
- **Statement of Purpose:** One page discussing reasons for pursuing a graduate degree, research interests, and career goals for the future
- **Letters of Recommendation:** Two letters of recommendation are required, preferably from faculty or instructors familiar with your academic ability
- **Unconditional Admission:**
  - Possession of a bachelor's degree from a regionally accredited institution

- Student has a 3.00 GPA (average of "B") overall in undergraduate work
- At least 12 credit hours of criminal justice courses or related courses that meet the requirements of the current school undergraduate curriculum, including a basic statistics course, a research methods course, an introductory criminal justice course, and a criminology course.
- **Provisional Admission:**
  - Student has not completed all of the undergraduate prerequisite course requirements for unconditional admission to graduate study
  - Student has no less than a 2.75 overall GPA for the last two years of undergraduate work and not less than a 2.75 GPA in the undergraduate major

## Degree Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>  |   |           |
| CRCJ 8010  | NATURE OF CRIME   | 3         |
| CRCJ 8020  | SEMINAR IN ADMINISTRATION OF JUSTICE                        | 3         |
| CRCJ 8030  | CRIMINAL JUSTICE RESEARCH THEORY AND METHODOLOGY            | 3         |
| CRCJ 8950  | STATISTICAL APPLICATIONS IN CRIMINAL JUSTICE & PUBLIC ADMIN | 3         |
| CRCJ 8130  | SEMINAR IN WOMEN AND CRIMINAL JUSTICE                       | 3         |
| or CRCJ 9030   | SEMINAR ON RACE, ETHNICITY, AND CRIMINAL JUSTICE            |           |
| or CRCJ 8120   | POWER, PERCEPTION AND PUNISHMENT                            |           |
| <b>Optional Course</b>   |   |           |
| Students can also take a diversity class from any field at the 8000 level or higher with adviser approval.                           |   |           |
| <b>Electives or Concentration</b>  |   |           |
| Select nine hours of CRCJ courses at the 8000 level or higher, with adviser approval or pursue designated concentration <sup>1</sup> |   | 9         |
| CRCJ 8990  | MASTERS THESIS  | 6         |
| <b>Total Credits</b>   |   | <b>30</b> |

<sup>1</sup> If CRCJ 8130, CRCJ 8120 or CRCJ 9030 is taken, they will serve as a diversity class, so another class should be selected to fulfill the 9 credit hours of CRCJ electives.

### Exit Requirement

- Thesis 6 hours CRCJ 8990

All candidates should carefully review the Graduate College requirements for forming a Supervisory Committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis.

## Concentration

### Victimology and Victim Services Concentration

| Code                              | Title                     | Credits  |
|-----------------------------------|---------------------------|----------|
| <b>Required Course</b>            |                           |          |
| CRCJ 8110                         | VICTIMOLOGY               | 3        |
| <b>Electives-Select six hours</b> |                           | <b>6</b> |
| CRCJ 8400                         | INTIMATE PARTNER VIOLENCE |          |
| CRCJ 8430                         | HUMAN TRAFFICKING         |          |

CRCJ 8450

SEXUAL VIOLENCE

Total Credits

9

## Criminology and Criminal Justice, MS

The Master of Science degree in criminology and criminal justice is a 36 hour program (11 classes and a capstone course) designed to meet the needs of professionals who are dedicated to a career in criminal justice. This educational opportunity is offered in a *flexible online format*, or alternatively through on-campus evening classes. Full-time students can complete the degree in 18 months; part-time students may choose to pursue the degree at a slower pace.

### Program Related Information

#### Program Contact

Mark Foxall, PhD, CJM, Master of Science [Program](#) Coordinator  
402.554.2610  
markfoxall@unomaha.edu

Katie Hansen

Asst. Director of UNO SCCJ Omaha Advising  
402.554.2610  
KEHansen@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-public-affairs-and-community-service/criminology-and-criminal-justice/graduate-programs/>)**

#### Fast Track

The School of Criminology and Criminal Justice has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing any of the following:
  - BS in criminology or criminal justice on either the UNO or UNL campuses
  - Double-major at UNO with a BS in criminology and criminal justice as either the primary or secondary major
  - BMS with a concentration in criminology and criminal justice
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.25.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the

applicant will need to contact the Office of Graduate Studies for a fee waiver code.

- Admission to Fast Track does NOT guarantee admission to the graduate program. Successful completion of the graduate courses will be a significant consideration during the evaluation of admission to the MA or MS in criminology and criminal justice.
- The admit term must be after the completion term of the undergraduate degree.

Special Note: Eligible undergraduate students may enroll in any 8000-level CRCJ course approved by the SCCJ program.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026 and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 95 with a minimum of 21 in all four areas, IELTS: 7.5 (8.0+ preferred), PTE: 76, Duolingo: 115
  - All English as a second language students are required to take a proficiency assessment examination at UNO upon admission, which will be used to determine if further assistance is required
- **Statement of Purpose:** One page discussing reasons for pursuing a graduate degree, interests in the field, and career goals for the future
- **Resume**
- **Letters of Recommendation:** Two letters of recommendation are required, the recommendation requests are generated from your online application. These recommendations should be from professional and academic sources who are directly familiar with your skills and experience. At least one reference should be from an immediate professional supervisor. If you have graduated from an academic program within the past two years, it is suggested that at least one reference should be from a faculty member who can speak directly to your academic preparation for graduate education. References from family members, family friends, personal friends, personal therapists, or other non-professional/academic sources will not be scored.
- **Unconditional Admission:**
  - Possession of a bachelor's degree from a regionally accredited institution
  - Applicant has at least a 3.0 GPA (average of "B") overall in the last two years of undergraduate work
  - At least 15 credit hours of criminal justice courses or related courses that meet the requirements of the current school undergraduate curriculum, including a basic statistics course, a research methods course, an introductory criminal justice course, a criminology course, and a criminal justice or criminology diversity course.
- **Provisional Admission:**
  - Applicant must have a bachelor's degree from a regionally accredited institution (if the institution is non-accredited, 15 credit hours of graduate course work at UNO must be successfully

completed before the student is eligible for unconditional admission)

- Applicant has not completed all of the undergraduate prerequisite course requirements for unconditional admission to graduate study
- Applicant has no less than a 2.75 overall GPA in the last two years of undergraduate work and not less than a 2.75 GPA in the undergraduate major.

Degree Requirements

| Code  | Title   | Credits |
|---|---|---------|
| Required Courses  |   |         |
| CRCJ 8010   | NATURE OF CRIME   | 3       |
| CRCJ 8020   | SEMINAR IN ADMINISTRATION OF JUSTICE                        | 3       |
| CRCJ 8030   | CRIMINAL JUSTICE RESEARCH THEORY AND METHODOLOGY            | 3       |
| CRCJ 8950   | STATISTICAL APPLICATIONS IN CRIMINAL JUSTICE & PUBLIC ADMIN | 3       |
| or CRCJ 8850  | RISK/NEEDS ASSESSMENT                                       |         |
| CRCJ 8120   | POWER, PERCEPTION AND PUNISHMENT                            | 3       |
| or CRCJ 8130  | SEMINAR IN WOMEN AND CRIMINAL JUSTICE                       |         |
| Elective Courses or Concentration   |   |         |
| Select nine hours of CRCJ courses at the 8000 level or designated concentration courses |   | 9       |
| Open Electives  |   | 9       |
| Select nine hours of advisor approved courses as described below.                       |   |         |
| Capstone Course   |   |         |
| CRCJ 8970   | CAPSTONE PROJECT IN CRIMINOLOGY AND CRIMINAL JUSTICE        | 3       |
| Total Credits   |   | 36      |

Open Electives

In consultation with advisors, students will select three courses in the School of Criminology and Criminal Justice or any related field such as public administration, social work, counseling or urban studies. Any course from any field at the 8000 level can count toward open elective hours.

NOTE: Students are encouraged to take their open elective courses in the form of a graduate minor or concentrated in a single field. Graduate minor programs generally all require 9 credit hours to complete and will be noted on students final transcripts.

Exit Requirement

| Code      | Title  | Credits |
|-----------|--|---------|
| CRCJ 8970 | CAPSTONE PROJECT IN CRIMINOLOGY AND CRIMINAL JUSTICE | 3       |

Capstone course is offered in the fall and spring semesters. Once all required coursework has been completed, the student can register to take the capstone course. The course will require students to engage in a problem-solving project involving group work, which culminates in a written report and oral presentation.

Concentration  
Victimology and Victim Services  
Concentration

| Code            | Title       | Credits |
|-----------------|-------------|---------|
| Required Course |             |         |
| CRCJ 8110       | VICTIMOLOGY | 3       |

|                            |                           |   |
|----------------------------|---------------------------|---|
| Electives-Select six hours |                           | 6 |
| CRCJ 8400                  | INTIMATE PARTNER VIOLENCE |   |
| CRCJ 8430                  | HUMAN TRAFFICKING         |   |
| CRCJ 8450                  | SEXUAL VIOLENCE           |   |
| Total Credits              |                           | 9 |

Criminology and Criminal  
Justice, PhD

The vision of the School of Criminology and Criminal Justice is to be a program that is recognized nationally for its quality and impact on research and instruction. In terms of doctoral education, the aim is to foster a learning environment in which graduate students may gain the necessary knowledge, skills, and competencies to prepare them for careers in academia or in the public or private sectors. The curriculum emphasizes written and verbal communication skills, methodological competency, a strong statistical foundation, and hands-on research experience. Doctoral students will actively engage in research under the supervision of faculty, the Director of the School's Nebraska Center for Justice Research, and/or the Director of the Juvenile Justice Institute.

Program Related Information

Program Contact

Samantha Clinkinbeard , PhD, Doctoral Graduate Program Chair (GPC)  
402.554.2610  
sclinkinbeard@unomaha.edu (sclinkinbeard@unomaha.edu)

Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/criminology-and-criminal-justice/graduate-programs/doctor-of-philosophy.php>)

Admissions

General Application Requirements and Admission Criteria (p. 972)

Application Deadline

- Fall 2026: January 20

Other Requirements

The School of Criminology and Criminal Justice uses a holistic approach when evaluating application materials including the extent to which the applicant's interests align with faculty research areas and an interest in attracting a diverse student body with varying lived experiences. Admissions decisions are competitive with a limited number of qualified students admitted each fall semester. Applicants are typically notified of decision by mid-spring.

- Official transcripts documenting completion of a master's degree. Degree may be in process at time of application.
- A Master of Arts or Master of Science degree in criminology or criminal justice from an accredited institution is required for unconditional admission into the program.
- Applicants holding a master's degree in a related social science field (e.g., psychology, sociology, political science, public administration, etc.), but lacking substantive coursework in criminology and criminal justice may be granted provisional admission. Unconditional admission status will be granted upon successful completion of 18 hours of criminology and criminal justice core curriculum coursework.
- **English Language Proficiency:** Applicants must have a command of oral and written English. Applicants who do not hold a baccalaureate



or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 95 with a minimum score of 21 in each of the four areas (the paper TOEFL will NOT be accepted), IELTS: 7.5 (8.0+ is preferred), PTE: 76, Duolingo: 125
- NOTE:** All English as second language students will be required to complete a proficiency assessment examination upon admission. This assessment will be used to determine if further assistance is required.
- Entrance Exam:** Graduate Record Examination (GRE) scores are required.
  - A GRE score above 300 (combined verbal and quantitative portions) and writing score at or above 4.0 and above is preferred. Students not meeting this threshold but demonstrate their exceptional academic potential through other aspects of their application materials may also be considered.
- Statement of Purpose/Statement of Research Interests:** (max. 5 pages)
  - A statement of purpose should describe the applicant's prior education experience, research interests, any relevant professional experience, and long term career goals. Applicants may note their interests in working with specific faculty members with whom their research interests align.
- Writing Sample:** This may be a chapter from a master's thesis, a published article, or a term paper or manuscript written in a scholarly style.
- Resume**
- Letters of Recommendation:** Three letters are required with at least two of the three letters must be submitted by professors who can attest to the applicant's academic strengths through experiences such as having the applicant as a student in their class and/or working under their direct supervision on research projects.

## Degree Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>Required Courses</b>  |  | <b>18</b> |
| CRCJ 9020  | SEMINAR ON THEORIES OF CRIME   |           |
| CRCJ/PA 9080   | ADVANCED STATISTICAL APPLICATIONS (Statistics 2)                                       |           |
| CRCJ 9090  | SPECIAL PROBLEMS IN RESEARCH METHODS (either quantitative or qualitative) <sup>1</sup> |           |
| CRCJ 9100  | SPECIAL PROBLEMS IN STATISTICAL ANALYSIS (Statistics 3)                                |           |
| CRCJ 9600  | SEMINAR ON CRIMINAL JUSTICE SYSTEMS  |           |
| CRCJ 9800  | ADVANCED RESEARCH DESIGN   |           |
| <b>Select one three hour diversity course</b>  |  | <b>3</b>  |
| CRCJ 8120  | POWER, PERCEPTION AND PUNISHMENT   |           |
| CRCJ 9030  | SEMINAR ON RACE, ETHNICITY, AND CRIMINAL JUSTICE                                       |           |
| CRCJ 8130  | SEMINAR IN WOMEN AND CRIMINAL JUSTICE  |           |
| Or a master's-level or higher course from another department as approved by the supervisory committee chair and the doctoral program chair |  |           |
| <b>Select three hours from the following</b>   |  | <b>3</b>  |
| CRCJ 9050  | ACADEMIC WRITING   |           |

CRCJ 9700 TEACHING CRIMINAL JUSTICE AT THE COLLEGE/UNIVERSITY LEVEL

|  |                                  |
|--|----------------------------------|
| <b>Electives</b>   | <b>18</b>                        |
| All doctoral students will select 18 hours of CRCJ courses at the 8000 level or higher, with advisor approval. |                                  |
| <b>Dissertation</b>  |                                  |
| CRCJ 9990  | DISSERTATION (see details below) |
| <b>Total Credits</b>   | <b>62</b>                        |

<sup>1</sup> This course may be substituted with a course from another department. Permission for course substitution must be granted by a student's supervisory committee and doctoral program chair.

Both 8000- and 9000-level elective courses are available to doctoral students. A maximum of six (6) hours of dual-level courses (8–6 course number) can be included in the program of study.

A maximum of six hours of directed readings (CRCJ 9980) may be included in the program of study. These six hours can be used in preparation for the comprehensive examination. Directed readings intended for comprehensive exam prep may be taken in the semester before the administration of the comprehensive exam. All coursework, excluding coursework in the form of directed readings related to the comprehensive examination, must be completed within two and half (2.5) years from the time a student's program of study is approved by the dean for graduate studies. All students will be required to complete all courses listed as required courses. Students also must take elective courses in criminal justice or related fields.

Students are expected to complete 36 hours of coursework within two years except in extraordinary circumstances. Some of these hours may be taken during summer semesters.

## Comprehensive Examination and Admission to Candidacy

After completion of 36 hours of coursework, doctoral students will be required to pass a comprehensive examination. The examination has two parts-criminological theory and criminal justice systems. Students are expected to take both comprehensive examinations during the fall and spring semesters of their third year in the program.

## Dissertation

Students may register for dissertation credits after successful completion of one comprehensive examination. The dissertation must reflect original scholarship and contribute to the body of knowledge on criminology and criminal justice. The dissertation topic must be approved by the student's dissertation committee, which consists of a chair and three other members. One committee member must be a faculty member from outside the School of Criminology and Criminal Justice. The dissertation topic, prospectus, and the dissertation all require the approval of the dissertation committee. A doctoral student will be required to take at least one hour of CRCJ 9990 each fall and spring semester while working toward the completion of the dissertation. A minimum of 20 credit hours of CRCJ 9990 is required for all doctoral students.

## Total Credit Hours

A minimum of 92 graduate hours beyond the baccalaureate degree. This includes up to 30 hours earned in a master's degree. Satisfactory completion of a teaching practicum is also required.

# Social Work, MSW and Criminology and Criminal Justice, MS (MSW/CRCJ)

The MSW and Master of Science in criminology and criminal justice (MSW/CRCJMS) dual degree program is a collaborative effort between the University of Nebraska at Omaha, Grace Abbott School of Social Work and the School of Criminology and Criminal Justice. The MSW/CRCJMS offers interdisciplinary preparation in the fields of social work and criminal justice leading to the master of social work and the master of criminal justice degrees, with fewer required credit hours than it would take to obtain these degrees independently.

This dual degree program prepares students to provide a range of advanced social work services for individuals, families, groups, organizations, and communities and assume leadership in the field of criminal justice and social work. Graduates with a dual MSW/CRCJMS are prepared to respond to the needs of the community by working with delinquent and criminal populations and the systems that impact these populations.

Students beginning the MSW/CRCJMS program at the MSW Generalist level must complete 81 credit hours total. Students beginning the MSW/CRCJMS program at the Advanced Generalist level, must complete 57 credit hours total.

## Program Related Information

### Program Contact

#### Social Work Contact

402.554.2793

graceabbott@unomaha.edu

#### Criminology and Criminal Justice Contact

Mark Foxall, PhD, CJM, MS Coordinator

402.554.2610

markfoxall@unomaha.edu

Katie Hansen

Asst. Director of UNO SCCJ Omaha Advising

402.554.2610

KEHansen@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/criminology-and-criminal-justice/graduate-programs/ms-msw.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
  - Generalist MSW/MSCRJ students (those who do not have an undergraduate degree in social work, BSSW) admitted for the spring term are limited to only the MSCRCJ coursework in spring and summer terms. The MSW coursework will be added in the fall term.
  - Advanced Generalist MSW/MSCRJ students (those with an undergraduate degree in social work, BSSW) can begin both MSCRCJ and MSW coursework in the spring term.
- Fall 2026: The priority deadline is February 1. Applications will be accepted through March 1.

- Students who have earned or will be earning any undergraduate degree may apply for fall admission.
- Students admitted as either Foundation MSW/MSCRJ or Advanced MSW/MSCRJ can begin both MSW and MSCRCJ coursework in the fall term.

## Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** The statement of purpose is an opportunity to demonstrate your understanding of and fit for the social work profession, as well as your aptitude for graduate-level social work education. The Admissions Committee pays close attention to both content and writing skills. In your statement of purpose, please address each of the items listed below, in no more than five (5) pages, double-spaced, in a 12-point font. Your response to each of the items should be roughly the same length. If your statement of purpose does not clearly and directly address each of the items or does not follow the instructions, it may not be considered.
  - Why have you chosen social work?
    - Your response should demonstrate a basic understanding of the social work profession, including what distinguishes it from other helping professions.
  - What type of work are you planning to engage with once you attain your MSW degree?
    - Specifically, what are the issues, populations, and levels of practice you hope to work with after graduate school?
  - The social work profession is rooted in improving the lives of others. Social workers adopt a stance of humility and strive towards cultural awareness.
    - Discuss a time when you realized that your personal experience influenced your reaction to a situation.
    - Reflecting on that experience, how might it influence your future social work practice?
  - Social workers are self-reflective, strengths-based, and growth-oriented.
    - Identify a strength that you possess and an area for growth.
    - Discuss how you became aware of these, how they show up in your current professional practice, and how they may influence your future professional practice.
  - Social work is a values-based profession dedicated to enhancing human wellbeing. From the core values and ethical principles identified in the NASW Code of Ethics (<https://www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English/>):
    - Identify and discuss one that resonates with you.
    - Identify and discuss one that may challenge you.
- **Resume:** Applicants are highly encouraged to have professional experience in the human service field. Please submit a professional resume that identifies:
  - Educational and occupational experiences since high school
    - List start and end dates with month and year
    - Identify whether the position is part or full-time
    - Identify whether the position is paid or volunteer
    - Field placements, internships or practicums
    - Honors or distinctions received

- **Letters of Recommendation:** Three letters of recommendation are required, the recommendation requests are generated from your online application. These recommendations should be from professional and academic sources who are directly familiar with your skills and experience. At least one reference should be from an immediate professional supervisor. If you have graduated from an academic program within the past two years, it is suggested that at least one reference should be from a faculty member who can speak directly to your academic preparation for graduate social work education. References from family members, family friends, personal friends, personal therapists, or other non-professional/academic sources will not be scored.
  - If transferring from another accredited MSW program, one letter must be from a current faculty member associated with that program.
- The MS application for criminology and criminal justice is completed online adhering to the same admission criteria for the MSW degree. The personal statement and letters of recommendation for admission to the MSW degree will be used by the School of Criminology and Criminal Justice to admit students.
- An undergraduate cumulative GPA of 2.7 or higher is required to be considered for admission.

The MSW/MSCRCJ **Generalist Program** is a 81 credit hour program available to applicants who do **not** hold a BSSW degree from an accredited school of social work within the last 10 years.

The MSW/MSCRCJ **Advanced Generalist Program** is a 57 credit hour program available to applicants who have earned a BSSW degree from an accredited school of social work within the last 10 years.

## Degree Requirements

| Code                               | Title  | Credits   |
|------------------------------------|--|-----------|
| <b>Required Foundation Courses</b> |  |           |
| SOWK 8070                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I              | 3         |
| SOWK 8080                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II             | 3         |
| SOWK 8090                          | SOCIAL WELFARE POLICY                                    | 3         |
| SOWK 8110                          | INSTITUTIONAL OPPRESSION                                 | 3         |
| SOWK 8130                          | GENERALIST PRACTICE I                                    | 3         |
| SOWK 8150                          | GENERALIST PRACTICE II                                   | 3         |
| SOWK 8160                          | GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3         |
| SOWK 8170                          | GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3         |
| <b>Total Credits</b>               |  | <b>24</b> |

<sup>1</sup> A student must receive grades of "B" or higher in practicum courses (SOWK 8160 and SOWK 8170).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8160. If a new placement is necessary, students may be required to go through the original planning process again.

| Code                         | Title                                 | Credits |
|------------------------------|---------------------------------------|---------|
| <b>Required Core Courses</b> |                                       |         |
| SOWK 8190                    | RESEARCH & COMPUTER APPLICATIONS      | 3       |
| SOWK 8220                    | CLINICAL SOCIAL WORK WITH INDIVIDUALS | 3       |
| SOWK 8230                    | CLINICAL SOCIAL WORK WITH GROUPS      | 3       |

|                                 |   |   |
|---------------------------------|---|---|
| SOWK 8510                       | ETHICS, SUPERVISION, AND LEADERSHIP IN THE SOCIAL WORK PROFESSION | 3 |
| SOWK 8540                       | PLANNING FOR SOCIAL CHANGE  | 3 |
| SOWK 8650                       | HEALTH/MENTAL HEALTH POLICIES FOR SOCIAL WORK                     | 3 |
| SOWK 8290                       | SOCIAL WORK PRACTICE IN HEALTH AND MENTAL HEALTH                  | 3 |
| SOWK 8400                       | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3 |
| SOWK 8410                       | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3 |
| <b>Advanced Research Course</b> |   |   |
| Select one of the following:    |   | 3 |
| SOWK 8940                       | EVALUATION OF SOCIAL PROGRAMS                                     |   |
| SOWK 8960                       | RESEARCH OTHER THAN THESIS  |   |
| CRCJ 8210                       | PROGRAM EVALUATION AND POLICY ANALYSIS                            |   |

|  |  |           |
|--|--|-----------|
| <b>Social Work Electives</b>                             |  |           |
| Select six hours of SOWK graduate courses                |  | 6         |
| <b>Required Criminology and Criminal Justice Courses</b> |  |           |
| CRCJ 8010  | NATURE OF CRIME                                      | 3         |
| CRCJ 8020  | SEMINAR IN ADMINISTRATION OF JUSTICE                 | 3         |
| CRCJ 8970  | CAPSTONE PROJECT IN CRIMINOLOGY AND CRIMINAL JUSTICE | 3         |
| CRCJ 8120  | POWER, PERCEPTION AND PUNISHMENT                     | 3         |
| or CRCJ 8130   | SEMINAR IN WOMEN AND CRIMINAL JUSTICE                |           |
| Select one course from the following                     |  | 3         |
| CRCJ 8040  | SEMINAR IN POLICE AND SOCIETY <sup>4</sup>           |           |
| CRCJ 8050  | SEMINAR IN CORRECTIONS <sup>4</sup>                  |           |
| CRCJ 8080  | SEMINAR IN JUVENILE JUSTICE <sup>4</sup>             |           |
| <b>Criminology and Criminal Justice Electives</b>        |  |           |
| Select six hours of CRCJ graduate courses.               |  | 6         |
| <b>Total Credits</b>                                     |  | <b>57</b> |

<sup>1</sup> A student must receive a grade of "B" or higher in practicum courses (SOWK 8400 and SOWK 8410).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8400. If a new placement is necessary, students may be required to go through the original planning process again.

<sup>4</sup> Courses not selected from among the three listed may be used as an elective.

## Exit Requirements

- CRCJ 8970 capstone course is offered in the fall and spring semesters. Once all required coursework has been completed, the student can register to take the capstone course. The course will require students to engage in a problem-solving project involving group work, which culminates in a written report and oral presentation.
- Satisfactory completion with a grade of B or better in SOWK 8400 and SOWK 8410

## Academic Policies and Standards

- The MSW Student Handbook can be found here (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/social-work/student-resources/>).

## Managing Juvenile and Adult Populations Certificate

A unique program specifically designed for professionals working with juveniles and adults who are in contact with the criminal justice system as victims, offenders, or family members.

## Program Related Information

### Program Contact

Mark Foxall, PhD, CJM, Master of Science Program Coordinator  
402.554.2610  
[markfoxall@unomaha.edu](mailto:markfoxall@unomaha.edu)

402.554.2793  
[graceabbott@unomaha.edu](mailto:graceabbott@unomaha.edu)

### Program Website (<http://www.unomaha.edu/college-of-public-affairs-and-community-service/criminology-and-criminal-justice/graduate-programs/graduate-certificate.php>)

This certificate can be obtained entirely online. All courses for the certificate will be offered online in a two-year rotation. Elective courses in criminology and criminal justice are also offered in the spring, summer and fall semesters.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- GPA of 2.75 or higher
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Paper-based TOEFL: 588, Internet-based TOEFL: 95 with a minimum of 21 in each of the four areas, IELTS: 7.5 (8.0 preferred), PTE: 76, Duolingo: 115
- Statement of Purpose:** The statement should include how the certificate will help you achieve your professional goals.
- Resume**

## Degree Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>  |   |           |
| SOWK 8886  | TOPICAL SEMINAR IN SOCIAL WORK                              | 3         |
| or SOWK 8626   | TRAUMA AND RESILIENCE                                       |           |
| or SOWK 8836   | CRISIS INTERVENTION   |           |
| SOWK/COUN 8686   | MEDICAL AND PSYCHOSOCIAL ASPECTS OF SUBSTANCE USE DISORDERS | 3         |
| CRCJ 8080  | SEMINAR IN JUVENILE JUSTICE                                 | 3         |
| CRCJ 8850  | RISK/NEEDS ASSESSMENT                                       | 3         |
| Select three additional graduate credit hours in consultation with your advisor. |   | 3         |
| <b>Total Credits</b>   |   | <b>15</b> |

## Critical and Creative Thinking, MA

The Master of Arts in critical and creative thinking (MA CCT) embodies the College of Arts and Sciences' ongoing commitment to personal enrichment as well as to the practical application of analytical skills and knowledge in a diverse array of both for-profit and nonprofit professional environments. This interdisciplinary degree provides a unique opportunity to pursue both breadth and depth within the rich and diverse landscape of the liberal arts and sciences. Students pursuing this degree will enhance their career potential by developing advanced skills and abilities necessary for critical thinking, creativity, and leadership.

## Program Related Information

### Program Contact

[casgradonline@unomaha.edu](mailto:casgradonline@unomaha.edu)  
402.554.4121

### Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/master-of-arts-in-critical-and-creative-thinking/>)

### Fast Track Program

The Office of Latino and Latin American Studies has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing Bachelor of Arts in Latino and Latin American Studies desiring to pursue a Master of Arts in critical and creative thinking.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required to remain in good standing.

- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
- Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.
  - Students seeking this option should work with their advisor to select appropriate graduate level courses.

complete the project. Enrollment in the graduate project is not available in the summer.

At least 15 hours of the MA CACT program must be done at the seminar level (courses ending in zero).

## Concentrations

### Cultural and Global Analysis Concentration

| Code                                       | Title   | Credits |
|--|---|---------|
| <b>Select 12 hours from the following:</b> |   |         |
| CACT 8100                                  | GLOBAL CINEMA   | 3       |
| CACT 8106/<br>PSYC 8536                    | CULTURAL PSYCHOLOGY   | 3       |
| CACT/BLST 8110                             | GLOBAL SOCIAL ISSUES: CREATIVE AND CRITICAL ANALYSES        | 3       |
| CACT 8116/<br>GEOG 8556                    | GEOGRAPHY OF THE WORLD ECONOMY                              | 3       |
| CACT 8186/LLS 8786                         | URBAN LATIN AMERICA   | 3       |
| CACT 8420                                  | MEXICO AND THE U.S. BORDERLANDS: TWO HISTORIES, ONE DESTINY | 3       |

#### Electives

Complete 12 hours of elective courses. Students may count nine hours outside the CACT program with advisor approval.

### Ethics and Values Concentration

| Code                                       | Title  | Credits   |
|--|--|-----------|
| <b>Select 12 hours from the following:</b> |  |           |
| CACT 8200/<br>PSCI 8300                    | SEMINAR IN POLITICAL THEORY  | 3         |
| CACT/RELI 8206                             | COMPARATIVE RELIGIOUS ETHICS   | 3         |
| CACT 8215                                  | VALUES AND VIRTUES   | 3         |
| CACT 8216                                  | PUBLIC HEALTH, RELIGION, AND HUMAN RIGHTS  | 3         |
| CACT/RELI 8226                             | VIOLENT CONFLICTS, PEACEBUILDING, AND THE ETHICS OF INTERVENTION                 | 3         |
| CACT 8650                                  | WRITING ACROSS DIFFERENCES: RHETORICAL THEORY FOR PERSUASION AND PUBLIC ADVOCACY | 3         |
| <b>Total Credits</b>                       |  | <b>12</b> |

#### Electives

Complete 12 hours of elective courses. Students may count nine hours outside the CACT program with advisor approval.

### Interdisciplinary Security Studies Concentration

| Code                    | Title                                      | Credits   |
|-------------------------|--|-----------|
| <b>Required Courses</b> |  |           |
| BSAD 8336               | PROJECT MANAGEMENT                         | 3         |
| CACT 8506/<br>PSYC 8656 | CREATIVITY AND INNOVATION IN ORGANIZATIONS | 3         |
| CACT/ENGL 8610          | PROFESSIONAL AND TECHNICAL WRITING         | 3         |
| ISQA 8546               | COMPUTER SECURITY MANAGEMENT               | 3         |
| PSCI 8256               | INTELLIGENCE AND NATIONAL SECURITY         | 3         |
| <b>Total Credits</b>    |  | <b>15</b> |

#### Electives

Students will select nine hours from the following courses

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: October 31
- Summer 2026: March 1
- Fall 2026: July 15

### Other Requirements

- All applicants must have the equivalent of a four-year undergraduate degree from a regionally accredited four-year institution of higher learning or the equivalent international institution with a minimum GPA of at least 3.0 in undergraduate courses related to major.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 100, IELTS: 7.5, PTE: 68, Duolingo: 130

## Degree Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>Required Course</b>   |  |           |
| CACT 8000  | INTRODUCTION TO CRITICAL AND CREATIVE THINKING <sup>1</sup>  | 3         |
| <b>Concentrations</b>  |  |           |
| Select one area of concentration.  |  | 12-15     |
| <b>Elective Courses</b>  |  |           |
| Select 9-12 hours of elective courses. Student selecting a 12 hour concentration may count 9 hours outside the CACT program with advisor approval. |  | 9-12      |
| <b>Exit Requirement</b>  |  |           |
| CACT 8090  | CRITICAL AND CREATIVE THINKING GRADUATE PROJECT <sup>2</sup> | 3         |
| <b>Total Credits</b>   |  | <b>30</b> |

<sup>1</sup> This course must be completed within your first nine (9) hours of study.

<sup>2</sup> The graduate project, CACT 8090, is a two semester process. Early in the semester prior to planned enrollment and completion of the graduate project (fall for a spring graduate project completion or spring for a fall graduate project completion), the student identifies a faculty member from their concentration to serve as their primary advisor and another graduate faculty member from the program or from outside the program to serve as the second reader. At the end of this semester the project proposal is due. Upon receipt of the final project proposal, the student will be able to register for CACT 8090 for the semester in which they will



|                         |  |  |
|-------------------------|--|--|
| BSAD 8096               | MANAGING COLLABORATIVE ENGAGEMENT                                |  |
| BSAD 8456               | MANAGERIAL NEGOTIATION STRATEGIES                                |  |
| CACT/BLST 8110          | GLOBAL SOCIAL ISSUES: CREATIVE AND CRITICAL ANALYSES             |  |
| CACT/RELI 8226          | VIOLENT CONFLICTS, PEACEBUILDING, AND THE ETHICS OF INTERVENTION |  |
| CACT/LLS 8436           | INTERNATIONAL MIGRATION, DEVELOPMENT AND CITIZENSHIP             |  |
| CACT 8540/<br>PSCI 8220 | SEMINAR ON INTERNATIONAL LEADERSHIP AND STRATEGY                 |  |
| CMST 8176               | ORGANIZATIONAL COMMUNICATION AND LEADERSHIP                      |  |
| CMST 8186               | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS             |  |
| CRCJ 8010               | NATURE OF CRIME  |  |
| CRCJ 8230               | TERRORISM  |  |
| CRCJ 8430               | HUMAN TRAFFICKING  |  |
| PSCI 8200               | SEMINAR IN FOREIGN POLICY AND NATIONAL SECURITY                  |  |
| PSCI 8266               | INTERNATIONAL LAW  |  |
| PSCI 8556               | POLITICAL VIOLENCE, INSURGENCY, AND TERRORISM                    |  |
| PSYC 8636               | ORGANIZATIONAL PSYCHOLOGY  |  |

## International Migration, Development and Citizenship Concentration

| Code                                       | Title  | Credits   |
|--|--|-----------|
| <b>Select 12 hours from the following:</b> |  |           |
| CACT 8400                                  | A HISTORY OF AMERICAN IMMIGRATION POLICIES AND LAWS  | 3         |
| CACT/ENGL 8410                             | IMMIGRATION, MIGRATION, AND DIASPORA: CRITICAL APPROACHES AND THEORIES OF MOVEMENT IN LITERATURE | 3         |
| CACT 8416/<br>SPAN 8156                    | LITERATURE/CULTURE: CENTRAL AMERICA AND THE CARIBBEAN 1898-2000                                  | 3         |
| CACT 8420                                  | MEXICO AND THE U.S. BORDERLANDS: TWO HISTORIES, ONE DESTINY                                      | 3         |
| CACT/LLS 8436                              | INTERNATIONAL MIGRATION, DEVELOPMENT AND CITIZENSHIP   | 3         |
| <b>Total Credits</b>                       |  | <b>12</b> |
| <b>Electives</b>                           |  |           |

Complete 12 hours of elective courses. Students may count nine hours outside the CACT program with advisor approval.

## Organizational Science and Leadership Concentration

| Code                                       | Title   | Credits |
|--|---|---------|
| <b>Select 12 hours from the following:</b> |   |         |
| CACT/SOC 8500                              | COMPLEX ORGANIZATIONS                             | 3       |
| CACT 8506/<br>PSYC 8656                    | CREATIVITY AND INNOVATION IN ORGANIZATIONS        | 3       |
| CACT 8510/<br>PSCI 8120                    | SEMINAR IN LEADERSHIP                             | 3       |
| CACT 8520/<br>PSYC 9421                    | POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP | 3       |

|                         |  |           |
|-------------------------|--|-----------|
| CACT 8530               | PERSONNEL PSYCHOLOGY AND LEADERSHIP              | 3         |
| CACT 8540/<br>PSCI 8220 | SEMINAR ON INTERNATIONAL LEADERSHIP AND STRATEGY | 3         |
| <b>Total Credits</b>    |  | <b>12</b> |

### Elective

Complete 12 hours of elective courses. Students may count nine hours outside the CACT program with advisor approval.

## Sustainability and the Environment Concentration

| Code                                       | Title  | Credits   |
|--|--|-----------|
| <b>Select 12 hours from the following:</b> |  |           |
| CACT 8216                                  | PUBLIC HEALTH, RELIGION, AND HUMAN RIGHTS                      | 3         |
| CACT 8306/<br>PSCI 8296                    | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY                     | 3         |
| CACT/ENVN 8316                             | OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY | 3         |
| CACT/ENGL 8310                             | ECOLOGICAL WRITING AND ANALYSIS                                | 3         |
| CACT 8326                                  | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH                     | 3         |
| <b>Total Credits</b>                       |  | <b>12</b> |
| <b>Electives</b>                           |  |           |

Complete 12 hours of elective courses. Students may count nine hours outside the CACT program with advisor approval.

## Writing and Critical Reflection Concentration

| Code                                       | Title  | Credits   |
|--|--|-----------|
| <b>Select 12 hours from the following:</b> |  |           |
| CACT/ENGL 8310                             | ECOLOGICAL WRITING AND ANALYSIS  | 3         |
| CACT/ENGL 8610                             | PROFESSIONAL AND TECHNICAL WRITING   | 3         |
| CACT/ENGL 8630                             | DIGITAL RHETORIC   | 3         |
| CACT/ENGL 8640                             | CREATIVE NONFICTION IN DIGITAL ENVIRONMENTS                                      | 3         |
| CACT/ENGL 8650                             | WRITING ACROSS DIFFERENCES: RHETORICAL THEORY FOR PERSUASION AND PUBLIC ADVOCACY | 3         |
| <b>Total Credits</b>                       |  | <b>12</b> |
| <b>Electives</b>                           |  |           |

Complete 12 hours of elective courses. Students may count nine hours outside the CACT program with advisor approval.

# Cybersecurity

## Degree Programs Offered

- Cybersecurity, MS (p. 1066)

## Certificates Offered

- Cybersecurity Certificate (p. 1069)

# Cybersecurity, MS

The School of Interdisciplinary Informatics (Si2) is the academic home of the Master of Science (MS) in cybersecurity. Cybersecurity is a rapidly expanding, multi-faceted science that integrates a diverse set of disciplines to address fundamental problems in the design, development, implementation and support of secure information systems. The Master of

Science is a full graduate degree program balancing theory with practice in order to provide students with the knowledge and skills necessary to protect information systems. Because of the wide variety of subject areas to which cybersecurity can be applied, this degree program has two paths; cyber operations, a concentration with highly technical content, and interdisciplinary, with the opportunity for the students to tailor the degree to specific management goals. Students may also choose between a thesis or capstone exit option based on their individual interests.

## Program Related Information

### Program Contact

si2gpc@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/school-of-interdisciplinary-informatics/cybersecurity/ms-cybr.php>)**

### Fast Track

The School of Interdisciplinary Informatics (SI2) has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate credit hours towards the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

#### Program Specifics:

- This program is available for undergraduate students pursuing any of the following:
  - Students pursuing a CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field
  - Students pursuing a Bachelor of Multidisciplinary Studies with a concentration in cybersecurity who wish to pursue the MS in cybersecurity.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

### Other Requirements

- The minimum undergraduate grade point average (GPA) requirement for the MS in cybersecurity program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a four-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission. Minimum acceptable scores are:
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** a two-page, double-spaced, word-processed essay that addresses the following two topics:
  - Discussion of two accomplishments that demonstrate your potential for success in the graduate program
  - Discussion of your unique personal qualities and life experiences that distinguish you from other applicants to this graduate program
- **Resume:** Submit a detailed resume indicating your work experience and background.
- **Optional:** One letter of recommendation from a reference who can evaluate your work and/or academic achievements.
- **Interview (optional):** Although not required, the graduate program committee may ask to conduct a telephone interview to further assess the experiences of the applicant.

## Requirements

### Foundation Courses

Foundation courses ensure that all students in the degree have a solid groundwork upon which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the cybersecurity professional's education. All foundation courses are required for all students, however, students who have obtained an undergraduate degree in a related field may already have this foundation. In such a case, most, if not all, foundation courses are waived. Students with undergraduate degrees in other disciplines, including computer science, management information systems, or engineering, will usually require one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more of the foundation courses.

Waivers for foundation courses are potentially granted by the graduate program committee upon the recommendation of the faculty member who is responsible for an individual course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out.

Foundation courses cannot be used to satisfy the 33 semester hours required for the MS in cybersecurity (CYBR) degree. Students who have not completed all the foundation course requirements may be admitted on a provisional status until those requirements have been completed. All

foundation courses must be completed prior to or concurrent with the first six (6) hours of MS in CYBR graduate coursework. (Nine hours if not waived)

| Code                 | Title   | Credits  |
|----------------------|---|----------|
| CIST 1600            | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING | 3        |
| or CIST 1400         | INTRODUCTION TO COMPUTER SCIENCE I                    |          |
| CYBR 2600            | SYSTEM ADMINISTRATION                                 | 3        |
| CSCI 3550            | COMMUNICATION NETWORKS                                | 3        |
| or ISQA 3400         | INFORMATION TECHNOLOGY INFRASTRUCTURE                 |          |
| <b>Total Credits</b> |   | <b>9</b> |

## Degree Requirements

### Capstone Option

| Code                   | Title                                    | Credits   |
|------------------------|--|-----------|
| <b>Core Courses</b>    |  |           |
| CYBR 8366              | PRINCIPLES OF SECURE SYSTEM DESIGN       | 3         |
| or CSCI 8366           | PRINCIPLES OF SECURE SYSTEM DESIGN       |           |
| CYBR 8410              | DISTRIBUTED SYSTEMS AND NETWORK SECURITY | 3         |
| or CSCI 8410           | DISTRIBUTED SYSTEMS AND NETWORK SECURITY |           |
| CYBR 8420              | SOFTWARE ASSURANCE                       | 3         |
| or CSCI 8420           | SOFTWARE ASSURANCE                       |           |
| CYBR 8490              | CYBER INVESTIGATIONS                     | 3         |
| <b>Concentration</b>   |  |           |
| Select a concentration |  | 18        |
| CIST 8950              | GRADUATE CAPSTONE                        | 3         |
| <b>Total Credits</b>   |  | <b>33</b> |

### Thesis Option

| Code                   | Title                                    | Credits   |
|------------------------|--|-----------|
| <b>Core Courses</b>    |  |           |
| CYBR 8366              | PRINCIPLES OF SECURE SYSTEM DESIGN       | 3         |
| or CSCI 8366           | PRINCIPLES OF SECURE SYSTEM DESIGN       |           |
| CYBR 8410              | DISTRIBUTED SYSTEMS AND NETWORK SECURITY | 3         |
| or CSCI 8410           | DISTRIBUTED SYSTEMS AND NETWORK SECURITY |           |
| CYBR 8420              | SOFTWARE ASSURANCE                       | 3         |
| or CSCI 8420           | SOFTWARE ASSURANCE                       |           |
| CYBR 8490              | CYBER INVESTIGATIONS                     | 3         |
| <b>Concentration</b>   |  |           |
| Select a concentration |  | 15        |
| CYBR 8990              | THESIS IN CYBERSECURITY                  | 6         |
| <b>Total Credits</b>   |  | <b>33</b> |

## Exit Requirements

- Capstone 3 Credits CIST 8950
- Thesis 6 Credits CYBR 8990
  - All candidates should carefully review the Graduate College requirements for forming a supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis.

## Concentrations

### Cyber Operations Concentration

| Code  | Title | Credits |
|---|-------|---------|
| A maximum of five cross-listed courses (courses ending in 8xx6) can be included on a plan of study for the MS in CYBR degree. |       |         |

| <b>Electives</b>                    |   |           |
|-------------------------------------|---|-----------|
| Select 18 hours from the following: |   | 18        |
| CYBR 8396                           | MOBILE DEVICE FORENSICS                         |           |
| CYBR 8436                           | QUANTUM COMPUTING AND CRYPTOGRAPHY              |           |
| CYBR 8446                           | INDUSTRIAL CONTROL SYSTEM SECURITY              |           |
| CYBR 8450                           | APPLIED CRYPTOGRAPHY                            |           |
| CYBR 8456                           | ETHICAL HACKING - MALWARE ANALYSIS              |           |
| CYBR 8466                           | ETHICAL HACKING - NETWORK ANALYSIS              |           |
| CYBR 8470                           | SECURE WEB APPLICATION DEVELOPMENT              |           |
| CYBR 8480                           | SECURE MOBILE DEVELOPMENT                       |           |
| CYBR 8546                           | COMPUTER SECURITY MANAGEMENT                    |           |
| CYBR 8080                           | SPECIAL TOPICS IN CYBERSECURITY                 |           |
| CYBR 8900                           | INDEPENDENT STUDY AND RESEARCH IN CYBERSECURITY |           |
| CYBR 8910                           | INTERNSHIP                                      |           |
| CYBR 8986                           | SPECIAL TOPICS IN CYBERSECURITY                 |           |
| CYBR 9460                           | SECURITY OF EMBEDDED SYSTEMS                    |           |
| <b>Total Credits</b>                |   | <b>18</b> |

## Interdisciplinary Concentration

| Code  | Title   | Credits   |
|---|---|-----------|
| A maximum of five cross-listed courses (courses ending in 8xx6) can be included on a plan of study for the MS in CYBR degree. |   |           |
| <b>Electives</b>  |   |           |
| Select 18 hours from the following:   |   | 18        |
| ISQA 8060   | RESEARCH IN MIS                                 |           |
| ISQA 8080   | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS       |           |
| ISQA 8546   | COMPUTER SECURITY MANAGEMENT                    |           |
| ISQA 8560   | INFORMATION WARFARE AND SECURITY                |           |
| ISQA/CYBR 8570  | INFORMATION SECURITY POLICY AND ETHICS          |           |
| ISQA 8580   | SECURITY RISK MANAGEMENT AND ASSESSMENT         |           |
| CSCI 8340   | DATABASE MANAGEMENT SYSTEMS II                  |           |
| CSCI 8430   | TRUSTED SYSTEM DESIGN, ANALYSIS AND DEVELOPMENT |           |
| CSCI 8530   | ADVANCED OPERATING SYSTEMS                      |           |
| CSCI/MATH 8566  | NUMBER THEORY & CRYPTOGRAPHY                    |           |
| CSCI 8610   | FAULT TOLERANT DISTRIBUTED SYSTEMS              |           |
| CYBR 8080   | SPECIAL TOPICS IN CYBERSECURITY                 |           |
| CYBR 8900   | INDEPENDENT STUDY AND RESEARCH IN CYBERSECURITY |           |
| CYBR 8910   | INTERNSHIP                                      |           |
| CYBR 8986   | SPECIAL TOPICS IN CYBERSECURITY                 |           |
| PSCI 8256   | INTELLIGENCE AND NATIONAL SECURITY              |           |
| PSCI 8266   | INTERNATIONAL LAW                               |           |
| <b>Total Credits</b>  |   | <b>18</b> |

## Quality of Work Standards

The Graduate College's Quality of Work Standards shall be applied to foundation courses as well as courses taken as part of the degree program. In particular, the GPC will recommend to the Graduate College that any

1. Student receiving a grade of "C-" or below on any foundation course will be dismissed from the program or, in the case of unclassified or non-degree students, be automatically denied admission.
2. Student receiving a grade of "C+" or "C" in any foundation course will be placed on probation or dismissed from the program.
3. Student not maintaining a "B" (3.0 on a 4.0 scale) average in foundation courses will be placed on probation or dismissed from the program.

## Cybersecurity Certificate

Cybersecurity is the practice of managing information related risks by ensuring confidentiality, integrity, authentication, availability, and non-repudiation of data. In addition to the national interest in cybersecurity, local businesses are increasingly reliant on secure computer infrastructures for their daily operations. A graduate-level certificate is a logical step to enhance the skill set of local and at-a-distance cybersecurity professionals. Additionally, the certificate program can serve as a feeder into the MS in cybersecurity degree should the students in the certificate choose to continue their graduate education.

## Program Related Information

### Program Contact

si2gpc@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/school-of-interdisciplinary-informatics/cybersecurity/cybr-graduate-certificate.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

### Other Requirements

- The minimum undergraduate grade point average requirement for the program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a four-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** a two-page, double-spaced, word-processed essay that addresses the following two topics:
  - Discussion of two accomplishments that demonstrate your potential for success in the graduate program

- Discussion of your unique personal qualities and life experiences that distinguish you from other applicants to this graduate program
- **Resume:** Submit a detailed resume indicating your work experience and background

## Degree Requirements

| Code                         | Title   | Credits   |
|------------------------------|---|-----------|
| <b>Required Courses</b>      |   |           |
| CYBR 8366                    | PRINCIPLES OF SECURE SYSTEM DESIGN              | 3         |
| Select one of the following: |   | 3         |
| CYBR 8410                    | DISTRIBUTED SYSTEMS AND NETWORK SECURITY        |           |
| CYBR 8420                    | SOFTWARE ASSURANCE                              |           |
| CYBR 8490                    | CYBER INVESTIGATIONS                            |           |
| <b>Electives</b>             |   | <b>6</b>  |
| CYBR 8396                    | MOBILE DEVICE FORENSICS                         |           |
| CYBR 8436                    | QUANTUM COMPUTING AND CRYPTOGRAPHY              |           |
| CYBR/ISQA 8570               | INFORMATION SECURITY POLICY AND ETHICS          |           |
| CYBR 8446                    | INDUSTRIAL CONTROL SYSTEM SECURITY              |           |
| CYBR 8450                    | APPLIED CRYPTOGRAPHY                            |           |
| CYBR 8456                    | ETHICAL HACKING - MALWARE ANALYSIS              |           |
| CYBR 8460                    | SECURITY OF EMBEDDED SYSTEMS                    |           |
| CYBR 8466                    | ETHICAL HACKING - NETWORK ANALYSIS              |           |
| CYBR 8470                    | SECURE WEB APPLICATION DEVELOPMENT              |           |
| CYBR 8480                    | SECURE MOBILE DEVELOPMENT                       |           |
| CYBR 8546                    | COMPUTER SECURITY MANAGEMENT                    |           |
| CYBR 8080                    | SPECIAL TOPICS IN CYBERSECURITY                 |           |
| CYBR 8900                    | INDEPENDENT STUDY AND RESEARCH IN CYBERSECURITY |           |
| CYBR 8910                    | INTERNSHIP                                      |           |
| CYBR 8986                    | SPECIAL TOPICS IN CYBERSECURITY                 |           |
| CSCI 8340                    | DATABASE MANAGEMENT SYSTEMS II                  |           |
| CSCI 8530                    | ADVANCED OPERATING SYSTEMS                      |           |
| CSCI/MATH 8566               | NUMBER THEORY & CRYPTOGRAPHY                    |           |
| CSCI 8610                    | FAULT TOLERANT DISTRIBUTED SYSTEMS              |           |
| ISQA 8060                    | RESEARCH IN MIS                                 |           |
| ISQA 8080                    | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS       |           |
| ISQA 8546                    | COMPUTER SECURITY MANAGEMENT                    |           |
| ISQA 8560                    | INFORMATION WARFARE AND SECURITY                |           |
| ISQA 8580                    | SECURITY RISK MANAGEMENT AND ASSESSMENT         |           |
| <b>Total Credits</b>         |   | <b>12</b> |

Incoming certificate students that do not have a cybersecurity background may also require foundation courses as needed prerequisites, depending on which core courses are selected and depending on the background of the student.

## Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. Information can be found here

(<http://www.ses.unomaha.edu/registrar/graduate.php>). If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- “Incomplete” and “NR” grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

### Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

## Data Science, MS

The vision of the Master of Science in data science program is to provide flexible, innovative, and technologically current education to rising data professionals who want to prepare for corporate leadership positions through their functional expertise. The interdisciplinary data science program brings together thought leaders in the fields of business, information technology, mathematics, and other units at UNO, including international university partners and local businesses.

This interdisciplinary graduate program is designed to be completed in 24 months. The curriculum includes course modules on topics that address the following major themes: data organization, manipulation, cleaning, and visualization; data analytics; working with massive amounts of data; dealing with missing and messy data; understanding the value of data and creating data products.

## Program Related Information

### Program Contact

Md Mahbubul Majumder, PhD, Graduate Program Chair (GPC)  
402.554.2734  
mmajumder@unomaha.edu

### Program Website (<https://www.unomaha.edu/graduate-studies/prospective-students/ms-data-science.php>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 15
- Fall 2026: July 1

### Other Requirements

- Minimum GPA of at least 3.0 in undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or advanced degree from a pre-determined country on

the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** An up-to-date resume with details about all relevant IT experience and skills.
- **Optional:** One letter of recommendation from a reference who can evaluate your work and/or academic achievements.
- **Interview:** A personal, telephone or Zoom/Microsoft Teams interview is encouraged, but is optional.

## Degree Requirements

### Foundation Courses

Students must have completed basic courses in the following areas, either as an undergraduate student or prior to enrolling in the first data science course.

- Introduction to programming: one semester of Java, Python, C++, or other approved programming course
- Statistics: one semester of undergraduate statistics

Foundation courses do not count towards the plan of study/degree requirements.

### Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>Core Courses</b>   |   | <b>18</b> |
| STAT 8416   | INTRODUCTION TO DATA SCIENCE                      |           |
| STAT 8426   | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION |           |
| ECON 8320   | TOOLS FOR DATA ANALYSIS                           |           |
| ECON 8310   | BUSINESS FORECASTING                              |           |
| or BSAD 8080  | BUSINESS FORECASTING                              |           |
| ISQA 8206   | INFORMATION AND DATA QUALITY MANAGEMENT           |           |
| HCC 8300  | RESEARCH FOUNDATIONS                              |           |
| or ISQA 8060  | RESEARCH IN MIS                                   |           |
| <b>Concentration</b>  |   | <b>12</b> |
| Select one of the five concentration areas.   |   |           |
| <b>Exit Requirement (Capstone, Project or Thesis)</b>                                     |   | <b>6</b>  |
| Specific exit requirements for each concentration are included on the Concentrations tab. |   |           |
| <b>Total Credits</b>  |   | <b>36</b> |

### Exit Requirements

- Capstone Option: Complete DSCI 8950 OR STAT 8950 and 3 hours of additional electives.
- Project Option: Complete STAT 8960 and 3 hours of additional electives.
- Thesis 6 Credits
  - All candidates should carefully review the Graduate College requirements for forming a supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis.

## Concentrations

### Business Concentration

| Code                                       | Title                                | Credits   |
|--|--------------------------------------|-----------|
| <b>Select 12 hours from the following:</b> |                                      | <b>12</b> |
| ACCT 8080                                  | CURRENT TECHNOLOGY USE IN ACCOUNTING |           |



|           |   |
|-----------|---|
| BSAD 8376 | SUPPLY CHAIN ANALYTICS                              |
| BSAD 8066 | HEALTHCARE ANALYTICS FOR BUSINESS                   |
| BSAD 8396 | MARKETING ANALYTICS                                 |
| BSAD 8426 | BUSINESS DEMOGRAPHICS                               |
| BSAD 8910 | SPECIAL TOPICS IN BUSINESS                          |
| ECON 8300 | ECONOMETRICS  |
| ECON 8306 | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS |
| ECON 8316 | BUSINESS INTELLIGENCE AND REPORTING                 |
| ECON 8330 | DATA ANALYSIS FROM SCRATCH                          |
| ECON 8910 | SPECIAL STUDIES IN ECONOMICS (Sports Economics)     |

**Total Credits** **12**

### Exit Requirement

- Capstone Option - Complete ECON 8330 and 3 additional hours from any concentration area or PSYC 9020, PSYC 9090, PSYC 9100, PSYC 9120, PSYC 9910 (Structure Equation/Hierarchical Linear Modeling), PSYC 9920 (Multilevel Modeling)
- Project Option - Complete STAT 8960 and 3 additional hours from any concentration area or PSYC 9020, PSYC 9090, PSYC 9100, PSYC 9120, PSYC 9910 (Structure Equation/Hierarchical Linear Modeling), PSYC 9920 (Multilevel Modeling)
- Thesis Option - All candidates should carefully review the Graduate College requirements for forming a supervisory committee, thesis/thesis equivalent proposal approval forms and final approval and submission of a thesis. The chair of the supervisory committee must be from the College of Business Administration.

## Data Science for Health Sciences Concentration

| Code     | Title                                  | Credits |
|----------|--|---------|
| BMI 8100 | INTRODUCTION TO BIOMEDICAL INFORMATICS | 3       |

**Select 9 hours from the following:** **9**

|           |  |
|-----------|--|
| BMI 8020  | ADVANCED COURSE IN BIOINFORMATICS                |
| BMI 8866  | BIOINFORMATICS ALGORITHMS                        |
| BMI 8896  | COMPUTERIZED GENETIC SEQUENCE ANALYSIS           |
| CSCI 8156 | GRAPH THEORY & APPLICATIONS                      |
| STAT 8456 | INTRODUCTION TO MACHINE LEARNING AND DATA MINING |

**Total Credits** **12**

### Exit Requirement

- Capstone Option - Complete DSCI 8950 or STAT 8950 and 3 additional hours from any concentration area or PSYC 9020, PSYC 9090, PSYC 9100, PSYC 9120, PSYC 9910 (Structure Equation/Hierarchical Linear Modeling), PSYC 9920 (Multilevel Modeling)
- Project Option - Complete STAT 8960 and 3 additional hours from any concentration area or PSYC 9020, PSYC 9090, PSYC 9100, PSYC 9120, PSYC 9910 (Structure Equation/Hierarchical Linear Modeling), PSYC 9920 (Multilevel Modeling)
- Thesis Option - All candidates should carefully review the Graduate College requirements for forming a supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis. The chair of the supervisory committee must be from the Department of Mathematical and Statistical Sciences.

## Information Technology Concentration

| Code                                       | Title   | Credits   |
|--|---|-----------|
| <b>Select 12 hours from the following:</b> |   | <b>12</b> |
| ISQA 8016                                  | BUSINESS INTELLIGENCE                                       |           |
| ISQA 8086                                  | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS |           |
| ISQA 8156                                  | ADVANCED STATISTICAL METHODS FOR IS&T                       |           |
| ISQA 8160                                  | APPLIED DISTRIBUTION FREE STATISTICS                        |           |
| ISQA 8340                                  | APPLIED REGRESSION ANALYSIS                                 |           |
| ISQA 8410                                  | DATA MANAGEMENT   |           |
| ISQA 8450                                  | NOSQL AND BIG DATA TECHNOLOGIES                             |           |
| ISQA 8460                                  | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD            |           |
| ISQA 8600                                  | FROM DATA TO DECISIONS                                      |           |
| ISQA 8700                                  | DATA MINING: THEORY AND PRACTICE                            |           |
| or CSCI 8350                               | DATA WAREHOUSING AND DATA MINING                            |           |
| ISQA 8720                                  | APPLIED STATISTICAL MACHINE LEARNING                        |           |
| ISQA 8736                                  | DECISION SUPPORT SYSTEMS                                    |           |
| ISQA 8750                                  | STORYTELLING WITH DATA                                      |           |
| ISQA 8810                                  | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS                 |           |
| ISQA 8910                                  | INFORMATION SYSTEMS INTERNSHIP                              |           |
| ISQA 9120                                  | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS                    |           |
| ISQA 9130                                  | APPLIED MULTIVARIATE ANALYSIS                               |           |
| CSCI 8476                                  | PATTERN RECOGNITION   |           |
| CSCI 8856                                  | DATABASE MANAGEMENT SYSTEMS                                 |           |
| CYBR 8396                                  | MOBILE DEVICE FORENSICS                                     |           |
| CYBR 8490                                  | CYBER INVESTIGATIONS  |           |

**Total Credits** **12**

### Exit Requirement

- Capstone Option - Complete DSCI 8950 or STAT 8950 and 3 additional hours from any concentration area or PSYC 9020, PSYC 9090, PSYC 9100, PSYC 9120, PSYC 9910 (Structure Equation/Hierarchical Linear Modeling), PSYC 9920 (Multilevel Modeling)
- Project Option - Complete CSCI 8910 or STAT 8960 and 3 additional hours from any concentration area or PSYC 9020, PSYC 9090, PSYC 9100, PSYC 9120, PSYC 9910 (Structure Equation/Hierarchical Linear Modeling), PSYC 9920 (Multilevel Modeling)
- Thesis Option - All candidates should carefully review the Graduate College requirements for forming a supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis. The chair of the supervisory committee must be from the College of Information Science & Technology.

## Interdisciplinary Concentration

| Code  | Title | Credits   |
|---|-------|-----------|
| Select 12 hours from any of the other concentrations, courses must be approved by your advisor. |       | 12        |
| <b>Total Credits</b>  |       | <b>12</b> |

### Exit Requirement

- Capstone Option - Complete ECON 8330 or DSCI 8950 or STAT 8950 and 3 additional hours from any concentration area or PSYC 9020, PSYC 9090, PSYC 9100, PSYC 9120, PSYC 9910 (Structure Equation/Hierarchical Linear Modeling), PSYC 9920 (Multilevel Modeling)

- Project Option - Complete STAT 8960 and 3 additional hours from any concentration area or PSYC 9020, PSYC 9090, PSYC 9100, PSYC 9120, PSYC 9910 (Structure Equation/Hierarchical Linear Modeling), PSYC 9920 (Multilevel Modeling)
- Thesis Option - All candidates should carefully review the Graduate College requirements for forming a supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis.

## Statistical and Decision Sciences Concentration

| Code                                       | Title  | Credits   |
|--|--|-----------|
| <b>Select 12 hours from the following:</b> |  | <b>12</b> |
| STAT 8446                                  | TIME SERIES ANALYSIS                             |           |
| STAT 8436                                  | LINEAR MODELS                                    |           |
| STAT 8456                                  | INTRODUCTION TO MACHINE LEARNING AND DATA MINING |           |
| STAT 8700                                  | BAYESIAN STATISTICS                              |           |
| STAT 8730                                  | ADVANCED STATISTICAL MACHINE LEARNING            |           |
| STAT 8710                                  | DESIGN AND ANALYSIS OF EXPERIMENTS               |           |
| MATH/CSCI 8306                             | DETERMINISTIC OPERATIONS RESEARCH MODELS         |           |
| MATH/CSCI 8316                             | PROBABILISTIC OPERATIONS RESEARCH MODELS         |           |
| MATH 8326                                  | COMPUTATIONAL OPERATIONS RESEARCH                |           |
| MATH 8430                                  | LINEAR PROGRAMMING                               |           |
| MATH/CSCI 8520                             | ADVANCED TOPICS IN OPERATIONS RESEARCH           |           |
| MATH 8650                                  | INTRODUCTION TO PROBABILITY MODELS               |           |
| MATH 8670                                  | TOPICS IN PROBABILITY AND STATISTICS             |           |
| MATH 8440                                  | NETWORK PROGRAMMING                              |           |
| MATH 8460                                  | INTEGER PROGRAMMING                              |           |
| <b>Total Credits</b>                       |  | <b>12</b> |

### Exit Requirement

- Capstone Option- Complete DSCI 8950 or STAT 8950
- Project Option - Complete STAT 8960 and 3 additional hours from any of the concentration areas or PSYC 9020, PSYC 9090, PSYC 9100, PSYC 9120, PSYC 9910 (Structure Equation/Hierarchical Linear Modeling), PSYC 9920 (Multilevel Modeling)
- Thesis Option - All candidates should carefully review the Graduate College requirements for forming a supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis. The chair of the supervisory committee must be from the Department of Mathematical and Statistical Sciences.

## Economics

### Degree Programs Offered

- Economics, MS (p. 1072)
- Business Administration, MBA and Economics, MS (MBA/ECON) (p. 1018)

## Certificates Offered

- Economic Education Certificate (p. 1075)
- Homeland Security Focused Business Analytics Certificate (p. 1076)

## Economics, MS

The science of economics creates a deep understanding of individual behavior, firm dynamics, markets, and some of the world's most interesting and challenging problems. Economics is a way of thinking that provides generalized tools to the practitioner to solve business, social, political, and many other issues faced by the modern organization.

The graduate program in economics is designed to provide a solid background in theory, quantitative methods and application appropriate to the needs of economists involved in the analysis of domestic and international business and economic conditions, financial analysis, policy analysis, forecasting, simulation and related work. In addition, the program prepares students for further graduate work in economics and related fields.

## Program Related Information

### Program Contact

Catherine Co, PhD, Graduate Program Chair and Advisor  
402.554.2805  
cco (cco@unomaha.edu)@unomaha.edu (cco@unomaha.edu)

**Program Website (<http://www.unomaha.edu/college-of-business-administration/economics/graduate-programs/>)**

### FastTrack Program

The Department of Economics has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing Bachelor of Science in business administration (with a concentration in economics), Bachelor of Science in economics, or Bachelor of Arts in economics, desiring to pursue a Master of Science in economics.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.

- The admit term must be after the completion term of the undergraduate degree.

Students in the Fast Track program must only enroll in dual-level ECON courses (ECON 8xx6) as their graduate coursework prior to admittance to the graduate program.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

Students are strongly encouraged to apply as early as possible, especially if applying for assistantships or scholarships.

- Fall 2026:  
June 1 for international applicants who are required to secure a new student visa  
July 15 for all other applicants
- Spring 2026:  
October 1 for international applicants who are required to secure a new student visa  
December 1 for all other applicants
- Summer 2026:  
March 1 for international applicants who are required to secure a new student visa  
April 15 for all other applicants

### Other Requirements

- Junior/senior GPA of at least 2.85 (on a 4.0 point scale)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Applicants must have completed courses equivalent to the following five foundation courses (UNO undergraduate courses):

| Code      | Title                             | Credits |
|-----------|-----------------------------------|---------|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO)   | 3       |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)   | 3       |
| ECON 3200 | ECONOMIC THEORY: MICRO            | 3       |
| ECON 3220 | ECONOMIC THEORY: MACRO            | 3       |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS | 3       |

- Applicants meeting the minimum GPA and language requirement but lacking some foundation courses will be granted provisional admission status until all foundation courses are completed with grades of "B" (3.0/4.0) or above.
- New economics graduate students will be admitted to pursue the non-thesis option. After completing nine (9) hours of coursework a student may submit a written request to the economics graduate program committee to transfer to the thesis option. Students are strongly encouraged to seek the advice of the economics graduate program advisor prior to submitting the written request. The student's request should include a thesis proposal written in consultation with a student-identified main thesis advisor (must be a tenure-track faculty in the economics department) who will serve as the chair of the thesis committee. In addition, the student should include an unofficial graduate transcript, a writing sample, and any other relevant information in the request. The graduate program committee, based on its evaluation of the student's potential to complete a quality master's thesis, will approve or deny this request. Upon transfer to the thesis option, an oral defense of the proposal will be scheduled, and the thesis

committee members will approve the scope of work. If the graduate program committee denies the student's request to transfer to the thesis option, the student may submit a second (and final) written request to transfer to the thesis option with supporting materials to the graduate program committee after he/she has completed 18 credit hours of coursework in the economics program.

## Degree Requirements

| Code   | Title  | Credits |
|--|--|---------|
| <b>Core Courses</b>  |  |         |
| ECON 8290  | RESEARCH METHODS IN ECONOMICS AND BUSINESS                             | 3       |
| ECON 8306  | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS <sup>1</sup>       | 3       |
| ECON 8200  | SEMINAR IN MICRO ECONOMIC THEORY                                       | 3       |
| ECON 8220  | SEMINAR IN MACRO THEORY  | 3       |
| ECON 8300  | ECONOMETRICS   | 3       |
| <b>Electives or Concentration</b>  |  |         |
| Elective coursework will be selected in consultation with the graduate program chair and advisor. At least six hours must be graduate only courses (8xx0). Students are strongly encouraged to complete an area of concentration which requires nine hours of elective courses. Students' area(s) of concentration will appear on the transcript. Dual-level ("8-6") course(s) completed as an undergraduate cannot be repeated for graduate credit. |  | 9       |
| ECON 8050  | ECONOMIC EDUCATION   |         |
| ECON 8080  | MONEY AND FINANCIAL INSTITUTIONS                                       |         |
| ECON 8210  | APPLIED MANAGERIAL ECONOMICS   |         |
| ECON 8310  | BUSINESS FORECASTING   |         |
| ECON 8320  | TOOLS FOR DATA ANALYSIS  |         |
| ECON 8330  | DATA ANALYSIS FROM SCRATCH   |         |
| ECON 8910  | SPECIAL STUDIES IN ECONOMICS   |         |
| ECON 8920  | INDEPENDENT STUDY  |         |
| ECON 8940  | ECONOMIC INTERNSHIP  |         |
| ECON 8216  | INDUSTRIAL ORGANIZATION  |         |
| ECON 8246  | LABOR ECONOMICS  |         |
| ECON 8316  | BUSINESS INTELLIGENCE AND REPORTING                                    |         |
| ECON 8326  | NATURAL RESOURCE ECONOMICS   |         |
| ECON 8336  | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY                          |         |
| ECON 8576  | ECONOMIC CONDITIONS ANALYSIS   |         |
| ECON 8616  | INTERNATIONAL TRADE  |         |
| ECON 8666  | INTERNATIONAL ECONOMIC DEVELOPMENT                                     |         |
| ECON 8856  | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT                            |         |
| BSAD 8040  | BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION |         |
| BSAD 8210  | ACCOUNTING: DECISIONS & CONSEQUENCES                                   |         |
| BSAD 8250  | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES |         |
| BSAD 8300  | ORGANIZATION THEORY & DESIGN   |         |
| BSAD 8516  | SECURITY ANALYSIS & INVESTING  |         |
| BSAD 8540  | MULTINATIONAL FINANCIAL MANAGEMENT                                     |         |

|  |   |              |
|--|---|--------------|
| BSAD 8610  | REAL ESTATE APPRAISAL                           |              |
| BSAD 8630  | FINANCE: UNDERSTANDING CAPITAL AND CASH         |              |
| BSAD 8710  | SUPPLY CHAIN MANAGEMENT                         |              |
| BSAD 8720  | STRATEGIC FINANCIAL MANAGEMENT                  |              |
| BSAD 8336  | PROJECT MANAGEMENT                              |              |
| BSAD 8356  | GLOBAL SOURCING AND INNOVATION                  |              |
| BSAD 8376  | SUPPLY CHAIN ANALYTICS                          |              |
| BSAD 8386  | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT  |              |
| PA 8300  | POLICY DESIGN AND IMPLEMENTATION                |              |
| PA 8826  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS |              |
| ISQA 8160  | APPLIED DISTRIBUTION FREE STATISTICS            |              |
| ISQA 8410  | DATA MANAGEMENT                                 |              |
| ISQA 8700  | DATA MINING: THEORY AND PRACTICE                |              |
| ISQA 9120  | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS        |              |
| ISQA 8206  | INFORMATION AND DATA QUALITY MANAGEMENT         |              |
| MATH 8056  | LINEAR ALGEBRA                                  |              |
| MATH 8235  | INTRODUCTION TO ANALYSIS                        |              |
| MATH 8356  | ORDINARY DIFFERENTIAL EQUATIONS                 |              |
| MATH 8746  | INTRODUCTION TO PROBABILITY AND STATISTICS I    |              |
| <b>Select the Non-Thesis or Thesis Option</b>                    |   |              |
| Non-Thesis Option-Select 12 additional elective hours from above |   | 12           |
| <b>Thesis Option</b>   |   |              |
| ECON 8990  | THESIS  | 6            |
| <b>Total Hours</b>   |   | <b>30-36</b> |

<sup>1</sup> ECON 8306: This course is not required for students demonstrating satisfactory mathematical skills. If this course is not taken, students should take three additional hours of elective courses.

## Exit Requirement

Non-Thesis Option (36 hours)

- Comprehensive Examination

Thesis Option (30 hours)

- Thesis 6 hours ECON 8990 (<https://catalog.unomaha.edu/search/?P=ECON%208990>)

All candidates should carefully review the Graduate College requirements for forming a supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis.

## Concentrations

### Business Economics Concentration

| Code                                  | Title                            | Credits |
|---------------------------------------|----------------------------------|---------|
| <b>Select three of the following:</b> |                                  |         |
| ECON 8080                             | MONEY AND FINANCIAL INSTITUTIONS | 3       |
| ECON 8210/<br>BSAD 8100               | APPLIED MANAGERIAL ECONOMICS     | 3       |
| ECON 8216                             | INDUSTRIAL ORGANIZATION          | 3       |
| ECON 8246                             | LABOR ECONOMICS                  | 3       |

|                         |   |          |
|-------------------------|---|----------|
| ECON 8310/<br>BSAD 8080 | BUSINESS FORECASTING                          | 3        |
| ECON 8336               | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY | 3        |
| ECON 8576               | ECONOMIC CONDITIONS ANALYSIS                  | 3        |
| ECON 8616               | INTERNATIONAL TRADE                           | 3        |
| ECON 8940               | ECONOMIC INTERNSHIP                           | 3        |
| <b>Total Credits:</b>   |   | <b>9</b> |

### Econometrics and Data Analytics Concentration

| Code                    | Title                      | Credits  |
|-------------------------|----------------------------|----------|
| <b>Required Courses</b> |                            |          |
| ECON 8320               | TOOLS FOR DATA ANALYSIS    | 3        |
| ECON 8310/<br>BSAD 8080 | BUSINESS FORECASTING       | 3        |
| ECON 8330               | DATA ANALYSIS FROM SCRATCH | 3        |
| <b>Total Credits:</b>   |                            | <b>9</b> |

### Growth, Development, and Sustainability Concentration

| Code                                  | Title   | Credits  |
|---------------------------------------|---|----------|
| <b>Select three of the following:</b> |   |          |
| ECON 8216                             | INDUSTRIAL ORGANIZATION                       | 3        |
| ECON 8336                             | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY | 3        |
| ECON 8616                             | INTERNATIONAL TRADE                           | 3        |
| ECON 8666                             | INTERNATIONAL ECONOMIC DEVELOPMENT            | 3        |
| ECON 8856                             | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT   | 3        |
| <b>Total Credits:</b>                 |   | <b>9</b> |

### International Trade and Global Value Chains Concentration

| Code   | Title                                       | Credits  |
|--|---|----------|
| <b>Required Courses</b>  |   |          |
| ECON 8616  | INTERNATIONAL TRADE                         | 3        |
| BSAD 8710  | SUPPLY CHAIN MANAGEMENT                     | 3        |
| <b>Electives</b>   |   | <b>3</b> |
| To be selected in consultation with the Graduate Program Chair |   |          |
| ECON 8216  | INDUSTRIAL ORGANIZATION                     | 3        |
| ECON 8310/<br>BSAD 8080  | BUSINESS FORECASTING                        | 3        |
| ECON 8666  | INTERNATIONAL ECONOMIC DEVELOPMENT          | 3        |
| ECON 8856  | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT | 3        |
| BSAD 8356  | GLOBAL SOURCING AND INNOVATION              | 3        |
| <b>Total Credits:</b>  |   | <b>9</b> |

### Monetary and Financial Economics Concentration

| Code  | Title                            | Credits |
|---|----------------------------------|---------|
| <b>Required Course</b>                      |                                  |         |
| ECON 8080                                   | MONEY AND FINANCIAL INSTITUTIONS | 3       |
| <b>Select six hours from the following:</b> |                                  |         |
| ECON 8310                                   | BUSINESS FORECASTING             | 3       |

|                       |                                    |          |
|-----------------------|------------------------------------|----------|
| BSAD 8516             | SECURITY ANALYSIS & INVESTING      | 3        |
| BSAD 8540             | MULTINATIONAL FINANCIAL MANAGEMENT | 3        |
| <b>Total Credits:</b> |                                    | <b>9</b> |

## PhD Preparatory Concentration

| Code                                  | Title  | Credits  |
|---------------------------------------|--|----------|
| <b>Select three of the following:</b> |  |          |
| ECON 8080                             | MONEY AND FINANCIAL INSTITUTIONS             | 3        |
| ECON 8216                             | INDUSTRIAL ORGANIZATION                      | 3        |
| ECON 8310/<br>BSAD 8080               | BUSINESS FORECASTING                         | 3        |
| ECON 8326                             | NATURAL RESOURCE ECONOMICS                   | 3        |
| ECON 8616                             | INTERNATIONAL TRADE                          | 3        |
| MATH 8056                             | LINEAR ALGEBRA                               | 3        |
| MATH 8235                             | INTRODUCTION TO ANALYSIS                     | 3        |
| MATH 8356                             | ORDINARY DIFFERENTIAL EQUATIONS              | 3        |
| MATH 8746                             | INTRODUCTION TO PROBABILITY AND STATISTICS I | 3        |
| <b>Total Credits:</b>                 |  | <b>9</b> |

## Public Policy Economics Concentration

| Code                                  | Title   | Credits  |
|---------------------------------------|---|----------|
| <b>Select three of the following:</b> |   |          |
| ECON 8080                             | MONEY AND FINANCIAL INSTITUTIONS              | 3        |
| ECON 8210/<br>BSAD 8100               | APPLIED MANAGERIAL ECONOMICS                  | 3        |
| ECON 8216                             | INDUSTRIAL ORGANIZATION                       | 3        |
| ECON 8246                             | LABOR ECONOMICS                               | 3        |
| ECON 8326                             | NATURAL RESOURCE ECONOMICS                    | 3        |
| ECON 8336                             | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY | 3        |
| ECON 8576                             | ECONOMIC CONDITIONS ANALYSIS                  | 3        |
| ECON 8666                             | INTERNATIONAL ECONOMIC DEVELOPMENT            | 3        |
| ECON 8856                             | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT   | 3        |
| PA 8300                               | POLICY DESIGN AND IMPLEMENTATION              | 3        |
| <b>Total Credits:</b>                 |   | <b>9</b> |

## Academic Performance

Students dismissed from the MS/MA economics program may request for reinstatement to the program by following this procedure. Write a reinstatement letter addressed to the economics graduate program committee and hand delivered to the economics graduate program advisor as soon as possible addressing the following points at the minimum:

1. Request for reinstatement;
2. Explanations for below par performance;
3. Arguments for why despite item #2 student be reinstated back into the program;
4. Describe activities student will do to ensure that performance moving forward will meet the quality of work standards set by Graduate Studies.

The economics graduate program committee will evaluate the student's request and inform the student of its decision as soon as practically possible.

## Economic Education Certificate

The graduate certificate in economic education is to assist high school instructors who teach economics to obtain the 18 graduate credit hours needed to teach economics as a dual enrollment course. The Higher Learning Commission (HLC) requires that teachers must have at least 18 graduate credit hours in a given subject to teach classes that can be considered dual-enrollment. The graduate certificate is designed to expand high school teachers' economics knowledge both in theory and practice so they can deliver high quality classes at the college-level.

## Program Related Information

### Program Contact

Jamie Wagner, PhD, Director, UNO Center for Economic Education  
402.554.2357  
jfwagner@unomaha.edu

Catherine Co, PhD, Graduate Program Chair and Advisor  
402.554.2805  
cco@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-business-administration/center-for-economic-education/professional-development/certificate-in-economic-education.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

Students are strongly encouraged to apply as early as possible, especially if applying for assistantships or scholarships.

- Spring 2026: December 1
- Summer 2026: April 15
- Fall 2026: July 15

### Other Requirements

- All applicants must have earned a minimum junior/senior GPA of 2.85
- Students must have completed ECON 2200 and ECON 2220.
  - Students with a secondary education degree from UNO may substitute ECON 2400—Economics for Educators in lieu of Principles of Macroeconomics and Principles of Microeconomics.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

## Degree Requirements

| Code             | Title                            | Credits   |
|------------------|----------------------------------|-----------|
| ECON 8050        | ECONOMIC EDUCATION               | 3         |
| <b>Electives</b> |                                  | <b>15</b> |
| ECON 8080        | MONEY AND FINANCIAL INSTITUTIONS |           |
| ECON 8210        | APPLIED MANAGERIAL ECONOMICS     |           |



|                      |   |           |
|----------------------|---|-----------|
| ECON 8216            | INDUSTRIAL ORGANIZATION                             |           |
| ECON 8230            | BUSINESS CONDITIONS ANALYSIS                        |           |
| ECON 8246            | LABOR ECONOMICS                                     |           |
| ECON 8306            | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS |           |
| ECON 8326            | NATURAL RESOURCE ECONOMICS                          |           |
| ECON 8336            | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY       |           |
| ECON 8576            | ECONOMIC CONDITIONS ANALYSIS                        |           |
| ECON 8616            | INTERNATIONAL TRADE                                 |           |
| ECON 8666            | INTERNATIONAL ECONOMIC DEVELOPMENT                  |           |
| ECON 8856            | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT         |           |
| ECON 8910            | SPECIAL STUDIES IN ECONOMICS                        |           |
| ECON 8920            | INDEPENDENT STUDY                                   |           |
| <b>Total Credits</b> |   | <b>18</b> |

## Homeland Security Focused Business Analytics Certificate

The homeland security focused business analytics certificate augments the security professional's existing domain knowledge with advanced business analytics skills. Throughout the program, students with focus on quantitative applications, forecasting, data analysis and machine learning techniques. Students in this program will have the opportunity to work on unclassified Department of Homeland Security specific problem sets. All coursework will partially satisfy requirements toward a UNO Master of Science in economics degree.

## Program Related Information

### Program Contact

Jessica Perrigan  
402.554.6375  
jperrigan@unomaha.edu

Catherine Co, PhD, Graduate Program Chair and Advisor  
402.554.2805  
cco@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-business-administration/economics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Fall 2026: July 15

### Other Requirements

- Junior/senior GPA of at least 2.85 (on a 4.0 point scale)
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum

language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- Statement of Purpose:** A one-page essay explaining how the certificate would benefit the applicant's current or future career in the US Department of Homeland Security.

- Students must have completed courses equivalent to the following three foundation courses (UNO undergraduate courses):

| Code      | Title                             | Credits |
|-----------|-----------------------------------|---------|
| ECON 2200 | PRINCIPLES OF ECONOMICS (MICRO)   | 3       |
| ECON 2220 | PRINCIPLES OF ECONOMICS (MACRO)   | 3       |
| BSAD 2130 | PRINCIPLES OF BUSINESS STATISTICS | 3       |

## Degree Requirements

| Code                 | Title   | Credits   |
|----------------------|---|-----------|
| ECON 8300            | ECONOMETRICS  | 3         |
| ECON 8306            | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS | 3         |
| ECON 8310            | BUSINESS FORECASTING                                | 3         |
| ECON 8316            | BUSINESS INTELLIGENCE AND REPORTING                 | 3         |
| ECON 8320            | TOOLS FOR DATA ANALYSIS                             | 3         |
| ECON 8330            | DATA ANALYSIS FROM SCRATCH                          | 3         |
| <b>Total Credits</b> |   | <b>18</b> |

Due to class sequencing, all students must start the certificate in a fall semester and can expect to take a year and a half to complete the certificate.

## Educational Leadership

### Degree Programs Offered

- Educational Leadership, MS (p. 1076)
- Educational Administration & Supervision, EdS (p. 1078)
- Educational Administration, EdD (p. 1079)

## Educational Leadership, MS

The mission of the Department of Educational Leadership is to develop effective visionary, intellectual, and moral leaders who can cause positive change in education to promote the success of all students. The department's degree and endorsement programs have a distinctive metropolitan education orientation. The Department of Educational Leadership offers a master of science degree (MS) as well as non-degree administration endorsement programs for students who have completed a master's degree.

## Program Related Information

### Program Contact

Tami Williams, EdD, Department Chair  
402.554.2721  
edleadership@unomaha.edu

## Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/educational-leadership/programs/ms-edl.php>)

### Other Program Related Information

To be considered for financial aid students must be admitted to the MS in educational leadership. Unclassified and non-degree admission students are not eligible for financial aid consideration.

Students who have earned a previous master's degree in the education field should apply as unclassified in educational administration.

Students needing fewer than 12 credits for re-certification or professional advancement may apply as non-degree. Note that non-degree students will need to speak with the department to enroll in required classes.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission. Minimum scores for this program are:
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** 1-2 pages that addresses such topics as why you want to become a school administrator; interests; experiences; and career goals
- **Resume**
- **Letters of Recommendation:** Two letters are required
- Copy of teaching certificate
- Evidence that the candidate has met the State of Nebraska's Special Education and Human Resources requirements. Most candidates will probably have satisfied this requirement while earning their teaching endorsements; if not, they will be required to complete relevant coursework.

**Unclassified Admission:** Those educators with a master's degree in education may apply as unclassified and complete the required and concentration hours needed for principal or special education director state certification. The application requirements are the same as the master's degree listed above.

## Degree Requirements

| Code                    | Title                                  | Credits |
|-------------------------|--|---------|
| <b>Required Courses</b> |  |         |
| EDL 8010                | INTRODUCTORY RESEARCH METHODS          | 3       |
| EDL 8030                | INTRODUCTION TO EDUCATIONAL LEADERSHIP | 3       |
| EDL 8050                | SCHOOL-COMMUNITY CONNECTIONS           | 3       |
| EDL 8020                | EDUCATIONAL POLICY AND LEADERSHIP      | 1       |

|          |  |   |
|----------|--|---|
| EDL 8490 | INSTRUCTIONAL LEADERSHIP                                 | 3 |
| EDL 8740 | PROFESSIONAL DEVELOPMENT FOR SCHOOL LEADERSHIP           | 1 |
| EDL 8710 | INTERPERSONAL RELATIONSHIPS IN EDUCATIONAL LEADERSHIP    | 3 |
| EDL 8730 | COMMUNICATION AND CULTURE IN EDUCATIONAL HUMAN RESOURCES | 1 |
| EDL 8780 | EDUCATIONAL LEADERSHIP SUMMIT                            | 2 |
| EDL 8750 | FUNDAMENTALS OF HUMAN RESOURCES IN EDUCATION             | 1 |

**Concentration 12-15**

**Electives 0-3**

Select 0-3 hours of EDL graduate courses depending on selected concentration

**Total Hours 36**

### Exit Requirements

Comprehensive Examination

**Special Note:** Please work with your advisor for additional endorsement requirements.

## Concentrations

### PK-12 Principal Concentration

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| EDL 9540             | SCHOOL LAW   | 3         |
| EDL 8470             | ADMINISTRATION AND SUPERVISION IN SCHOOLS              | 3         |
| EDL 8400             | ELEMENTARY SCHOOL INTERNSHIP IN EDUCATIONAL LEADERSHIP | 3         |
| EDL 8410             | SECONDARY SCHOOL INTERNSHIP IN EDUCATIONAL LEADERSHIP  | 3         |
| EDL 8800             | SCHOOL LEADERSHIP ACADEMY <sup>1</sup>                 | 3         |
| <b>Total Credits</b> |  | <b>15</b> |

<sup>1</sup> Or completion of three one hour courses, select from: EDL 8100, EDL 8310, EDL 8320, EDL 8340, EDL 8350, EDL 8360, EDL 8370, EDL 8380, EDL 8390, EDL 9310, EDL 9330

### PK-Elementary Principal Concentration

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| EDL 9540             | SCHOOL LAW   | 3         |
| EDL 8470             | ADMINISTRATION AND SUPERVISION IN SCHOOLS              | 3         |
| EDL 8400             | ELEMENTARY SCHOOL INTERNSHIP IN EDUCATIONAL LEADERSHIP | 3         |
| EDL 8800             | SCHOOL LEADERSHIP ACADEMY <sup>1</sup>                 | 3         |
| <b>Total Credits</b> |  | <b>12</b> |

<sup>1</sup> Or completion of three one hour courses, select from EDL 8100, EDL 8310, EDL 8320, EDL 8340, EDL 8350, EDL 8360, EDL 8370, EDL 8380, EDL 8390, EDL 9310, EDL 9330

### Secondary Principal Concentration

| Code     | Title                                     | Credits |
|----------|---|---------|
| EDL 9540 | SCHOOL LAW                                | 3       |
| EDL 8470 | ADMINISTRATION AND SUPERVISION IN SCHOOLS | 3       |

|                      |   |           |
|----------------------|---|-----------|
| EDL 8410             | SECONDARY SCHOOL INTERNSHIP IN EDUCATIONAL LEADERSHIP | 3         |
| EDL 8800             | SCHOOL LEADERSHIP ACADEMY <sup>1</sup>                | 3         |
| <b>Total Credits</b> |   | <b>12</b> |

<sup>1</sup> Or completion of three one hour courses, select from EDL 8100, EDL 8310, EDL 8320, EDL 8340, EDL 8350, EDL 8360, EDL 8370, EDL 8380, EDL 8390, EDL 9310, EDL 9330

## Special Education Supervisor Concentration

| Code                                   | Title                        | Credits   |
|--|------------------------------|-----------|
| SPED 8900                              | SPECIAL EDUCATION LAW        | 3         |
| SPED 8920                              | SPECIAL EDUCATION LEADERSHIP | 3         |
| Select six SPED graduate level credits |                              | 6         |
| <b>Total Credits</b>                   |                              | <b>12</b> |

## Teacher Leadership Concentration

| Code   | Title | Credits   |
|--|-------|-----------|
| Teacher leadership concentration can be curriculum based, not leading to state administrative certification. |       | 12        |
| <b>Total Credits</b>   |       | <b>12</b> |

# Educational Administration & Supervision, EdS

The mission of the Department of Educational Leadership is to develop effective visionary, intellectual, and moral leaders who can cause positive change in education to promote the success of all students. The department's degree and endorsement programs have a distinctive metropolitan education orientation.

## Program Related Information

### Program Contact

Tami Williams, EdD, Department Chair  
402.554.2721  
edleadership@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/educational-leadership/programs/education-specialist-edl.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

An applicant for admission to the Specialist in Education degree in the Department of Educational Leadership must have earned at least a master's degree from an accredited institution and an administrative endorsement. This is a terminal degree and if an EdD is planned at any time in the future, advising to the best degree path should take place before application.

• **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission. Minimum scores for this program are:

• Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

• **Statement of Purpose:** A 1-2 page document describing relevant professional roles and experience as well as career goals for the EdS

• **Writing Sample:** Three samples, including one with a reference section (or thesis/specialist field project)

• **Resume**

• **Letters of Recommendation:** Three required letters; one letter must be from current supervisor confirming applicant's school administrative role.

• Administrative certificate or teaching certificate if administrative certificate is not yet earned

Together with previous graduate work, the candidate's course of study must total a minimum of 69 graduate semester hours with 30 hours meeting the time limit requirement for graduate degrees. The program of study must be approved by the department and the dean for Graduate Studies, and include a minimum of 15 semester hours after admission to the EdS program.

## Degree Requirements

| Code                    | Title  | Credits |
|-------------------------|--|---------|
| <b>Required Courses</b> |  |         |
| EDL 9110                | FIELD PROJECT IN EDUCATIONAL ADMINISTRATION              | 3       |
| EDL 9200                | ADVANCED PRACTICUM IN EDUCATIONAL ADMINISTRATION         | 3       |
| <b>Elective Courses</b> |  |         |
| EDL 8010                | INTRODUCTORY RESEARCH METHODS                            | 3       |
| EDL 8020                | EDUCATIONAL POLICY AND LEADERSHIP                        | 1       |
| EDL 8030                | INTRODUCTION TO EDUCATIONAL LEADERSHIP                   | 3       |
| EDL 8050                | SCHOOL-COMMUNITY CONNECTIONS                             | 3       |
| EDL 8310                | ISSUES IN TECHNOLOGY FOR SCHOOL LEADERS                  | 1       |
| EDL 8340                | ISSUES IN IDENTITY, CULTURE, AND POWER                   | 1       |
| EDL 8330                | LEADING THE CURRICULUM PROCESS                           | 1       |
| EDL 8360                | CURRENT ISSUES IN SPECIAL EDUCATION ADMINISTRATION       | 1       |
| EDL 8370                | ISSUES IN NEBRASKA EDUCATION POLICY                      | 1       |
| EDL 8380                | ISSUES IN HOPE LEADERSHIP                                | 1       |
| EDL 8390                | ISSUES IN EDUCATIONAL LEADERSHIP PIPELINE                | 1       |
| EDL 8470                | ADMINISTRATION AND SUPERVISION IN SCHOOLS                | 3       |
| EDL 8490                | INSTRUCTIONAL LEADERSHIP                                 | 3       |
| EDL 8560                | SCHOOL FINANCE   | 1       |
| EDL 8620                | SCHOOL PLANTS AND EQUIPMENT                              | 3       |
| EDL 8710                | INTERPERSONAL RELATIONSHIPS IN EDUCATIONAL LEADERSHIP    | 3       |
| EDL 8730                | COMMUNICATION AND CULTURE IN EDUCATIONAL HUMAN RESOURCES | 1       |

|          |   |   |
|----------|---|---|
| EDL 8740 | PROFESSIONAL DEVELOPMENT FOR SCHOOL LEADERSHIP          | 1 |
| EDL 8750 | FUNDAMENTALS OF HUMAN RESOURCES IN EDUCATION            | 1 |
| EDL 8780 | EDUCATIONAL LEADERSHIP SUMMIT                           | 2 |
| EDL 8800 | SCHOOL LEADERSHIP ACADEMY                               | 3 |
| EDL 9310 | ISSUES IN STRATEGIC PLANNING FOR SCHOOL LEADERS         | 1 |
| EDL 9330 | ISSUES IN SCHOOL OPERATIONS                             | 1 |
| EDL 9540 | SCHOOL LAW  | 3 |
| EDL 9550 | SYMPOSIUM ON SCHOOL LEADERSHIP                          | 3 |
| EDL 9980 | SUPERINTENDENT INTERNSHIP IN EDUCATIONAL ADMINISTRATION | 3 |

## Educational Administration, EdD

The mission of the Department of Educational Leadership is to develop effective visionary, intellectual, and moral leaders who can cause positive change in education to promote the success of all students. The department's degree and endorsement programs have a distinctive metropolitan education orientation. The Department of Educational Leadership offers a doctoral degree in education (EdD).

## Program Related Information

### Program Contact

Tami Williams, EdD, Department Chair  
402.554.2721  
edleadership@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/educational-leadership/programs/edd-edl.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: October 1 (limited)
- Summer 2026: April 1
- Fall 2026: June 15

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** A 1-2 page document describing the applicant's prior education, relevant professional experience, career goals and specific relationship to the EdD degree, with regard to the achievement of these goals.
- **Writing Sample:** Three samples, including one with a reference section (or thesis/specialist field project)
- **Resume**

- **Letters of Recommendation:** Three letters are required
- Administrative certificate or Educational Specialist degree or UNO MS educational leadership required courses

## Degree Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| The program requires a total of 96 hours of coursework.  |  |           |
| At least 45 hours of new coursework must be completed after admission to the doctoral program. |  |           |
| <b>Required Seminar Courses</b>  |  |           |
| EDL 9510   | SEMINAR IN CULTURE AND CONTEXT OF SCHOOLING                      | 3         |
| EDL 9520   | ACHIEVING SCHOOL EXCELLENCE                                      | 3         |
| EDL 9530   | PARADIGMS AND PRACTICES OF SCHOOLING                             | 3         |
| <b>Required Research Tools/Methods</b>   |  |           |
| EDL 9000   | FUNDAMENTALS OF RESEARCH DESIGN                                  | 3         |
| EDL 9010   | ADVANCED SEMINAR IN EDUCATIONAL RESEARCH                         | 1         |
| EDL 9610   | STATISTICAL METHODS FOR THE BEHAVIORAL SCIENCES                  | 2         |
| EDL 9620   | NON PARAMETRIC STATISTICS FOR THE BEHAVIORAL AND SOCIAL SCIENCES | 2         |
| EDL 9680   | QUALITATIVE RESEARCH: FOUNDATIONS & APPROACHES                   | 2         |
| EDL 9690   | QUALITATIVE RESEARCH: COLLECTION & ANALYSIS                      | 2         |
| <b>Electives <sup>1</sup></b>  |  | <b>12</b> |
| EDL 8310   | ISSUES IN TECHNOLOGY FOR SCHOOL LEADERS                          |           |
| EDL 8320   | ESSENTIALS OF DATA ANALYSIS AND PRESENTATION                     |           |
| EDL 8330   | LEADING THE CURRICULUM PROCESS                                   |           |
| EDL 8340   | ISSUES IN IDENTITY, CULTURE, AND POWER                           |           |
| EDL 8560   | SCHOOL FINANCE   |           |
| EDL 8620   | SCHOOL PLANTS AND EQUIPMENT                                      |           |
| EDL 9310   | ISSUES IN STRATEGIC PLANNING FOR SCHOOL LEADERS                  |           |
| EDL 9320   | LEGAL ISSUES IN SPECIAL EDUCATION                                |           |
| EDL 9330   | ISSUES IN SCHOOL OPERATIONS                                      |           |
| EDL 9550   | SYMPOSIUM ON SCHOOL LEADERSHIP                                   |           |
| EDL 9980   | SUPERINTENDENT INTERNSHIP IN EDUCATIONAL ADMINISTRATION          |           |
| <b>Exit Requirement</b>  |  |           |
| EDL 9990   | DISSERTATION   | 12        |
| <b>Total Credits</b>   |  | <b>45</b> |

<sup>1</sup> NOTE: These courses are for Superintendent Certification. If the applicant is not pursuing Superintendent Certification, then 12 hours of additional coursework will be determined with the applicant's advisor.

### Exit Requirements

- Comprehensive Examination
- Dissertation EDL 9990

## Elementary Education, MS

The master's degree in elementary education will:

- Provide graduate students with a diverse range of courses that best fit their individual learning needs in a flexible program.
- Expand professional connections with educators across our local and national context with diverse perspectives.
- Enhance the ability to design engaging, authentic instruction for today's students.
- Emphasize diversity, critical thinking, and culturally responsive teaching.
- Encourage collaboration within the candidate's local/regional community.
- Extend 21st century teaching skills and technology applications.

The master's degree in elementary education does not lead to initial teacher certification.

## Program Related Information

### Program Contact

unotedgraduateprograms@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-education/teacher-education/graduate/elementary-education.php>)**

### Unclassified Students

Students who are not planning to pursue a program leading to a graduate certificate or a master's degree can be admitted to the elementary education program as unclassified students. Candidates holding a previous master's degree in education who are seeking additional teaching endorsements may wish to choose an unclassified status. Unclassified students are allowed to take courses for which they meet the prerequisite. Successful completion of graduate courses as an unclassified student does not obligate the department to accept those courses for credit toward the fulfillment of degree requirements. Formal advisement in an endorsement area is required.

Formal advisement in an endorsement area is required.

- Candidates should apply for endorsements as soon as they are eligible. If a candidate applies 10 years or more after completing all coursework, a review is required to determine if more coursework is needed.
- To add an endorsement 1/3 of the coursework must be completed at UNO in the endorsement area.

### Fast Track Program

The Department of Teacher Education has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing BS in Education desiring to pursue a MS in Elementary Education.
- Students must have completed no less than 75 undergraduate hours and successful completion of a significant number of undergraduate education courses.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.

- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 10
- Summer 2026: June 1
- Fall 2026: August 1

### Other Requirements

- A minimum undergraduate GPA of 3.0 (on a 4.0 scale)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Applicants working toward the master's degree must have a valid teaching certificate **or** application to a concentration that leads to certification (e.g. Accelerated Certification for Teachers concentration). Exceptions to this will be considered on an individual basis. If needed, please contact Chris Wilcoxon, the graduate program chair. Please note, a master's degree does not lead to initial certification.
- International students who do not intend to teach in the United States **may** be eligible for admission. Please note, applicants to the Accelerated Certification for Teachers concentration must already be eligible to work in the US before applying. Sponsorship will not be provided. Please contact the graduate program chair if you have questions or a unique set of circumstances you feel may qualify you for this program.

## Degree Requirements

| Code   | Title   | Credits  |
|--|---|----------|
| <b>Research/Data Driven Course</b>   |   | <b>3</b> |
| The research/data driven course must be completed within the last nine hours of the program. Advisors will share the designated course associated with your concentration. |   |          |
| TED 8010   | INTRODUCTION TO RESEARCH                      |          |
| TED 8050   | DATA-DRIVEN DECISION MAKING FOR EDUCATORS     |          |
| TED 8250   | ASSESSMENT FOR CLASSROOM TEACHER <sup>1</sup> |          |
| <b>Foundational Pedagogy Course</b>  |   | <b>3</b> |



A foundational pedagogy course must be completed within the first 18 hours of the program

|          |   |
|----------|---|
| TED 8130 | LANGUAGE, CULTURE, AND POWER                    |
| TED 8160 | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |
| TED 8180 | CULTURALLY RESPONSIVE TEACHING                  |
| TED 8210 | EQUITY AND SOCIAL JUSTICE IN EDUCATION          |
| TED 8280 | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |
| TED 8290 | TRAUMA INFORMED EDUCATION                       |
| TED 8800 | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH |
| TED 9200 | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |

**Concentration 27**

**Capstone 3**

The capstone is intended to be the last course in your program. A grade of B or better is required.

|          |                               |
|----------|-------------------------------|
| TED 8700 | ELEMENTARY EDUCATION CAPSTONE |
| TED 8730 | PK-12 CAPSTONE                |

**Total Credits 36**

<sup>1</sup> TED 8250 applies only to the accelerated certification for teachers concentration.

## Exit Requirements

Capstone TED 8700 or TED 8730. The professional project completed in this course takes the place of the comprehensive exam. Registration for the course is by permission only. This course is intended to be the last course in your program. A grade of B or better must be received to show satisfactory completion of the course and for program completion.

## Concentrations

### Accelerated Certification for Teachers Concentration

| Code                         | Title   | Credits   |
|------------------------------|---|-----------|
| <b>Core Pedagogy</b>         |   |           |
| TED 8300                     | EFFECTIVE TEACHING PRACTICES  | 3         |
| TED 8390                     | CLASSROOM MANAGEMENT IN PRACTICE                                      | 3         |
| <b>Concentration Courses</b> |   |           |
| SPED 8030                    | TEACHING STUDENTS WITH EXCEPTIONALITIES                               | 3         |
| TED 8310                     | HUMAN DEVELOPMENT - CONTEMPORARY IMPLICATIONS FOR TEACHING & LEARNING | 3         |
| TED 8410                     | IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS                            | 3         |
| TED 8470                     | TEACHING THE LANGUAGE ARTS  | 3         |
| TED 8530                     | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS                   | 3         |
| TED 9110                     | PRINCIPLES AND PRACTICES FOR TEACHING READERS                         | 3         |
| TED 9120                     | GRADUATE IN-SERVICE TEACHING  | 3         |
| <b>Total Credits</b>         |   | <b>27</b> |

## Bilingual Education Concentration

| Code                                  | Title  | Credits   |
|---------------------------------------|--|-----------|
| <b>Core Pedagogy</b>                  |  |           |
| TED 8140                              | SPECIAL METHODS IN MULTILINGUAL LEARNERS EDUCATION: CULTURALLY RESPONSIVE TEACHING FOR MULTILINGUAL <sup>1</sup> | 3         |
| TED 8480                              | FOUNDATIONS OF BILINGUAL EDUCATION <sup>2</sup>  | 3         |
| <b>Concentration Courses</b>          |  |           |
| TED 8020                              | CONTENT, LANGUAGE, & BILITERACY: INTERDISCIPLINARY BILITERACY & TRANSLANGUAGING PEDAGOGY                         | 3         |
| TED 8490                              | SPANISH LANGUAGE ARTS <sup>2</sup>   | 3         |
| TED 8980                              | PRACTICUM: VARIOUS CONTENT AREAS <sup>2</sup>  | 3         |
| Select three hours from the following |  | 3         |
| TED 8130                              | LANGUAGE, CULTURE, AND POWER   |           |
| TED 8340                              | PRINCIPLES OF LINGUISTICS FOR EDUCATORS  |           |
| Select three hours from the following |  | 3         |
| TED 8180                              | CULTURALLY RESPONSIVE TEACHING   |           |
| TED 8800                              | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH  |           |
| TED 9110                              | PRINCIPLES AND PRACTICES FOR TEACHING READERS  |           |
| Select three hours from the following |  | 3         |
| TED 8120                              | FOUNDATIONS OF MULTILINGUAL LEARNERS <sup>3</sup>  |           |
| SPAN 8076                             | HISPANIC BILINGUALISM  |           |
| SPAN 8086                             | INTRODUCTION TO HISPANIC LINGUISTICS   |           |
| SPAN 8126                             | HISPANIC SOCIOLINGUISTICS  |           |
| SPAN 8136                             | SPANISH IN THE UNITED STATES   |           |
| SPAN 8226                             | THE STRUCTURE OF SPANISH   |           |
| WLL 8030                              | SEMINAR: SECOND AND BILINGUAL LANGUAGE ACQUISITION THEORY  |           |
| WLL 8050                              | THEORY AND METHODS IN THE TEACHING OF HERITAGE LANGUAGES   |           |
| Select three hours from the following |  | 3         |
| WLL 8020                              | SEMINAR:FL/TESOL RESEARCH  |           |
| TED 8250                              | ASSESSMENT FOR CLASSROOM TEACHER   |           |
| TED 8370                              | DATA VISUALIZATION AND MODELING FOR EDUCATORS  |           |
| TED 8560                              | TECHNOLOGY FOR DIVERSE LEARNERS  |           |
| TED 8720                              | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION  |           |
| <b>Total Credits</b>                  |  | <b>27</b> |

<sup>1</sup> TED 8140 requires 25-hour field experience

<sup>2</sup> Taught in Spanish

<sup>3</sup> TED 8120 requires 20-hour field experience

- For an added endorsement in Bilingual Education, consult your advisor.
- The Nebraska Department of Education requires the ESL endorsement before you can apply for the Bilingual Education endorsement.
- Spanish proficiency required (evaluated during first 3 hours).

## Curriculum, Instruction, and Assessment Concentration

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>Core Pedagogy</b>   |  | <b>6</b>  |
| TED 8110   | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS  |           |
| TED 8250   | ASSESSMENT FOR CLASSROOM TEACHER   |           |
| TED 8300   | EFFECTIVE TEACHING PRACTICES   |           |
| TED 8720   | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION  |           |
| <b>Concentration Courses</b>   |  | <b>15</b> |
| TED 8100   | RESEARCH PROJECT   |           |
| TED 8120   | FOUNDATIONS OF MULTILINGUAL LEARNERS <sup>1</sup>  |           |
| TED 8140   | SPECIAL METHODS IN MULTILINGUAL LEARNERS EDUCATION: CULTURALLY RESPONSIVE TEACHING FOR MULTILINGUAL <sup>2</sup> |           |
| TED 8150   | ANTI-RACISM EDUCATION: PRINCIPLES AND PRACTICES  |           |
| TED 8340   | PRINCIPLES OF LINGUISTICS FOR EDUCATORS  |           |
| TED 8350   | APPLIED COACHING FOR EDUCATORS   |           |
| TED 8370   | DATA VISUALIZATION AND MODELING FOR EDUCATORS  |           |
| TED 8410   | IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS   |           |
| TED 8420   | TRENDS AND TEACHING STRATEGIES IN SCIENCE EDUCATION  |           |
| TED 8540   | DIGITAL CITIZENSHIP  |           |
| TED 8550   | TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING  |           |
| TED 8560   | TECHNOLOGY FOR DIVERSE LEARNERS  |           |
| TED 8590   | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS  |           |
| TED 8610   | TEACHING OF WRITING THROUGHOUT THE CURRICULUM  |           |
| TED 8650   | CHILDREN'S LITERATURE AND EDUCATION  |           |
| TED 8750   | OXBOW WRITING PROJECT  |           |
| TED 8810   | STEM CURRICULUM AND RESEARCH FOR ELEMENTARY AND EARLY LEARNERS   |           |
| TED 8870   | RESEARCH WITH CHILDREN   |           |
| TED 9110   | PRINCIPLES AND PRACTICES FOR TEACHING READERS  |           |
| <b>Electives</b>   |  | <b>6</b>  |
| Select six hours of TED or SPED graduate level courses as approved by your advisor |  |           |
| <b>Total Credits</b>   |  | <b>27</b> |

<sup>1</sup> TED 8120 requires a 20-hour field experience

<sup>2</sup> TED 8140 requires a 25-hour field experience

## Early Childhood Education Concentration

| Code                 | Title                                       | Credits  |
|----------------------|---|----------|
| <b>Core Pedagogy</b> |   | <b>6</b> |
| TED 8110             | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS |          |

|  |  |           |
|--|--|-----------|
| TED 8250   | ASSESSMENT FOR CLASSROOM TEACHER                               |           |
| TED 8300   | EFFECTIVE TEACHING PRACTICES                                   |           |
| TED 8720   | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION      |           |
| <b>Concentration Courses</b>   |  | <b>15</b> |
| TED 8150   | ANTI-RACISM EDUCATION: PRINCIPLES AND PRACTICES                |           |
| TED 8200   | SOCIAL WORLDS OF THE YOUNG CHILD                               |           |
| TED 8220   | PLAY AS A LEARNING MEDIUM IN EARLY CHILDHOOD EDUCATION         |           |
| TED 8240   | FAMILY, SCHOOL, AND COMMUNITY PARTNERS                         |           |
| TED 8260   | ADVANCED CURRICULUM IN EARLY CHILDHOOD                         |           |
| TED 8800   | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH                |           |
| TED 8810   | STEM CURRICULUM AND RESEARCH FOR ELEMENTARY AND EARLY LEARNERS |           |
| TED 8870   | RESEARCH WITH CHILDREN   |           |
| TED 8880   | LEADERSHIP IN EARLY CHILDHOOD EDUCATION                        |           |
| <b>Electives</b>   |  | <b>6</b>  |
| Select six hours of TED graduate level courses as approved by your advisor |  |           |
| <b>Total Credits</b>   |  | <b>27</b> |

## Multilingual Learner Concentration

| Code  | Title  | Credits  |
|---|--|----------|
| <b>Additional Foundational Pedagogy Courses</b> |  | <b>6</b> |
| TED 8130  | LANGUAGE, CULTURE, AND POWER   |          |
| TED 8180  | CULTURALLY RESPONSIVE TEACHING   |          |
| TED 8210  | EQUITY AND SOCIAL JUSTICE IN EDUCATION   |          |
| TED 8280  | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION   |          |
| TED 8290  | TRAUMA INFORMED EDUCATION  |          |
| TED 8800  | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH  |          |
| TED 9200  | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE   |          |
| <b>Core Pedagogy</b>                            |  |          |
| TED 8120  | FOUNDATIONS OF MULTILINGUAL LEARNERS <sup>1</sup>  | 3        |
| TED 8140  | SPECIAL METHODS IN MULTILINGUAL LEARNERS EDUCATION: CULTURALLY RESPONSIVE TEACHING FOR MULTILINGUAL <sup>2</sup> | 3        |
| TED 8160  | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS  | 3        |
| Select three hours from the following           |  | 3        |
| TED 8130  | LANGUAGE, CULTURE, AND POWER   |          |
| TED 8150  | ANTI-RACISM EDUCATION: PRINCIPLES AND PRACTICES  |          |
| TED 8340  | PRINCIPLES OF LINGUISTICS FOR EDUCATORS  |          |
| <b>Electives</b>                                |  | <b>9</b> |

Select nine hours of TED graduate level courses as approved by your advisor

**Total Credits** **27**

- For an added endorsement in ML, consult with your advisor. You must have a valid teaching certificate in either Elementary or Secondary Education to add this endorsement.

## Instructional Technology Leadership Concentration

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Additional Foundational Pedagogy Course</b>                               |   | <b>3</b>  |
| TED 8130   | LANGUAGE, CULTURE, AND POWER                        |           |
| TED 8160   | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS         |           |
| TED 8180   | CULTURALLY RESPONSIVE TEACHING                      |           |
| TED 8210   | EQUITY AND SOCIAL JUSTICE IN EDUCATION              |           |
| TED 8280   | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION      |           |
| TED 8290   | TRAUMA INFORMED EDUCATION                           |           |
| TED 8800   | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH     |           |
| TED 9200   | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE      |           |
| <b>Core Pedagogy</b>   |   |           |
| TED 8540   | DIGITAL CITIZENSHIP                                 | 3         |
| TED 8590   | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS       | 3         |
| <b>Concentration Courses</b>   |   |           |
| TED 8370   | DATA VISUALIZATION AND MODELING FOR EDUCATORS       | 3         |
| TED 8530   | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS | 3         |
| TED 8550   | TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING       | 3         |
| TED 8560   | TECHNOLOGY FOR DIVERSE LEARNERS                     | 3         |
| TED 8580   | ONLINE TEACHING AND LEARNING                        | 3         |
| <b>Electives</b>   |   | <b>3</b>  |
| Select three hours of TED graduate level courses as approved by your advisor |   |           |
| <b>Total Credits</b>   |   | <b>27</b> |

## Language and Learning Concentration

| Code                         | Title  | Credits   |
|------------------------------|--|-----------|
| <b>Core Pedagogy</b>         |  | <b>6</b>  |
| TED 8110                     | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS  |           |
| TED 8250                     | ASSESSMENT FOR CLASSROOM TEACHER   |           |
| TED 8300                     | EFFECTIVE TEACHING PRACTICES   |           |
| TED 8720                     | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION  |           |
| <b>Concentration Courses</b> |  | <b>18</b> |
| TED 8120                     | FOUNDATIONS OF MULTILINGUAL LEARNERS <sup>1</sup>  |           |
| TED 8140                     | SPECIAL METHODS IN MULTILINGUAL LEARNERS EDUCATION: CULTURALLY RESPONSIVE TEACHING FOR MULTILINGUAL <sup>2</sup> |           |

TED 8150 ANTI-RACISM EDUCATION: PRINCIPLES AND PRACTICES

TED 8340 PRINCIPLES OF LINGUISTICS FOR EDUCATORS

TED 8350 APPLIED COACHING FOR EDUCATORS

TED 8470 TEACHING THE LANGUAGE ARTS

TED 8650 CHILDREN'S LITERATURE AND EDUCATION

TED 8660 YOUNG ADULT LITERATURE

TED 8780 FOUNDATIONAL SKILLS OF EARLY LITERACY

TED 9110 PRINCIPLES AND PRACTICES FOR TEACHING READERS

**Electives** **3**

Select three hours of TED graduate level courses as approved by your advisor

**Total Credits** **27**

<sup>1</sup> TED 8120 requires a 20-hour field experience

<sup>2</sup> TED 8140 requires a 25-hour field experience

## School Library Concentration

| Code                                   | Title  | Credits   |
|--|--|-----------|
| <b>Core Pedagogy</b>                   |  |           |
| TED 8520                               | SCHOOL LIBRARY PRACTICUM                                   | 3         |
| TED 8830                               | LEADERSHIP AND MANAGEMENT IN SCHOOL LIBRARIES              | 3         |
| <b>Concentration Courses</b>           |  |           |
| TED 8540                               | DIGITAL CITIZENSHIP  | 3         |
| TED 8650                               | CHILDREN'S LITERATURE AND EDUCATION                        | 3         |
| TED 8660                               | YOUNG ADULT LITERATURE                                     | 3         |
| TED 8710                               | RESEARCH AND INQUIRY                                       | 3         |
| TED 8740                               | ORGANIZATION OF INFORMATION                                | 3         |
| TED 8760                               | MANAGING COLLECTIONS IN LIBRARIES AND INFORMATION AGENCIES | 3         |
| <b>Additional Concentration Course</b> |  | <b>3</b>  |
| TED 8530                               | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS        |           |
| TED 8550                               | TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING              |           |
| TED 8560                               | TECHNOLOGY FOR DIVERSE LEARNERS                            |           |
| TED 8590                               | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS              |           |
| <b>Total Credits</b>                   |  | <b>27</b> |

## Science, Technology, Engineering, and Mathematics (STEM) Concentration

| Code                         | Title   | Credits   |
|------------------------------|---|-----------|
| <b>Core Pedagogy</b>         |   | <b>6</b>  |
| TED 8110                     | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS               |           |
| TED 8250                     | ASSESSMENT FOR CLASSROOM TEACHER                          |           |
| TED 8300                     | EFFECTIVE TEACHING PRACTICES                              |           |
| TED 8720                     | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |           |
| <b>Concentration Courses</b> |   | <b>15</b> |
| TED 8350                     | APPLIED COACHING FOR EDUCATORS                            |           |

|  |  |           |
|--|--|-----------|
| TED 8370   | DATA VISUALIZATION AND MODELING FOR EDUCATORS                  |           |
| TED 8410   | IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS                     |           |
| TED 8420   | TRENDS AND TEACHING STRATEGIES IN SCIENCE EDUCATION            |           |
| TED 8530   | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS            |           |
| TED 8550   | TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING                  |           |
| TED 8560   | TECHNOLOGY FOR DIVERSE LEARNERS                                |           |
| TED 8580   | ONLINE TEACHING AND LEARNING                                   |           |
| TED 8590   | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS                  |           |
| TED 8640   | OPEN EDUCATIONAL RESOURCES FOR P-12 TEACHERS                   |           |
| TED 8810   | STEM CURRICULUM AND RESEARCH FOR ELEMENTARY AND EARLY LEARNERS |           |
| TED 8840   | ENGINEERING EDUCATION EXTERNSHIP                               |           |
| TED 8860   | INVENTION & INNOVATION IN ENGINEERING EDUCATION                |           |
| <b>Electives</b>   |  | <b>6</b>  |
| Select six hours of TED graduate level courses as approved by your advisor |  |           |
| <b>Total Credits</b>   |  | <b>27</b> |

## Equity and Social Justice in Education Concentration

| Code   | Title   | Credits  |
|--|---|----------|
| <b>Additional Foundational Pedagogy Courses</b>                      |   | <b>6</b> |
| Complete an additional six hours of foundational pedagogy coursework |   |          |
| TED 8130   | LANGUAGE, CULTURE, AND POWER                              |          |
| TED 8160   | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS               |          |
| TED 8180   | CULTURALLY RESPONSIVE TEACHING                            |          |
| TED 8210   | EQUITY AND SOCIAL JUSTICE IN EDUCATION                    |          |
| TED 8280   | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION            |          |
| TED 8290   | TRAUMA INFORMED EDUCATION                                 |          |
| TED 8800   | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH           |          |
| TED 9200   | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE            |          |
| <b>Core Pedagogy</b>   |   | <b>6</b> |
| TED 8110   | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS               |          |
| TED 8250   | ASSESSMENT FOR CLASSROOM TEACHER                          |          |
| TED 8300   | EFFECTIVE TEACHING PRACTICES                              |          |
| TED 8720   | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |          |
| <b>Concentration Courses</b>   |   | <b>9</b> |
| TED 8120   | FOUNDATIONS OF MULTILINGUAL LEARNERS <sup>1</sup>         |          |

|                      |  |           |
|----------------------|--|-----------|
| TED 8140             | SPECIAL METHODS IN MULTILINGUAL LEARNERS EDUCATION: CULTURALLY RESPONSIVE TEACHING FOR MULTILINGUAL <sup>2</sup> |           |
| TED 8150             | ANTI-RACISM EDUCATION: PRINCIPLES AND PRACTICES  |           |
| TED 8340             | PRINCIPLES OF LINGUISTICS FOR EDUCATORS  |           |
| TED 8350             | APPLIED COACHING FOR EDUCATORS   |           |
| <b>Electives</b>     |  | <b>6</b>  |
| <b>Total Credits</b> |  | <b>27</b> |

<sup>1</sup> TED 8120 requires a 20-hour field experience

<sup>2</sup> TED 8140 requires a 25-hour field experience

## English

### Degree Programs Offered

- English, MA (p. 1084)

### Certificates Offered

- Advanced Writing Certificate (p. 1086)
- English Dual Enrollment (p. 1088)
- Literature and Culture Certificate (p. 1087)
- Teaching English to Speakers of Other Languages Certificate (p. 1089)
- Technical Communication Certificate (p. 1089)

## English, MA

The Department of English reflects the centrality of language to human endeavors and its effectiveness in achieving awareness of the human complexities that are part of us, our relationships, and our roles in the world.

### Program Related Information

#### Program Contact

Ramon Guerra, PhD, Graduate Program Chair (GPC)  
402.554.3636  
unoenglishgradschool@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/english/academics/graduate-programs/>)**

#### Fast Track Program

The Department of English has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing the BA degree in English desiring to pursue an MA in English
- Students must have completed no fewer than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.5

- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted to undergraduate status including financial aid
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code
  - Admission to Fast Track does NOT guarantee admission to the graduate program
  - The admit term must be after the completion term of the undergraduate degree
- Students may enroll in dual-level courses (8xx6 or 8xx5) for Fast Track credit, but not seminars

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- To be admitted to graduate study in English, a student should have completed at least 18 credit hours in undergraduate English courses above the freshman level with an average grade of "B" (3.0/4.0) or higher.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
  - If interested in a graduate assistantship minimum scores are as follows. Internet-based TOEFL: 100, IELTS: 7.5, PTE: 68, Duolingo: 130
- **Statement of Purpose:** The statement (of about 500-1000 words) should convey the applicant's previous study in the field of English, any relevant work or life experience, the applicant's philosophy of learning and reason for pursuing a master's degree in English, and anything else that might help convey the applicant's personality, spirit, or intellectual character.

### Teaching Assistantship

The application for a graduate assistantship requires the following additional materials, which should all be sent directly to the attention of the Graduate Program Chair, Department of English, ASH 192D, University of Nebraska at Omaha, 6001 Dodge St., Omaha, NE 68182-0175 or by e-mail to englishTAapplications@unomaha.edu

- **Application coversheet** (available online (<https://www.unomaha.edu/college-of-arts-and-sciences/english/academics/graduate-programs/engl-ta-application-20231.pdf>))
- **Statement of Purpose:** 500-1000 words detailing the applicant's ambitions in the graduate program and his or her motivation for pursuing an assistantship. In addition, this statement should convey some sense of the applicant's identity and philosophy of learning.
- **Writing Sample or Samples** of academic or creative non-fiction prose by the applicant totaling 10-20 pages in length. The sample(s) should reflect the applicant's best writing, demonstrating a cohesive argument and/or sustained thematic focus and excellent control of syntax and style.
- **Two Letters of Recommendation** from past teachers or anyone else reasonably able to offer an objective assessment of the applicant's writing, critical reasoning skills, and promise as a teacher. These letters should be sent to the above address directly by the recommenders, along with waiver forms.

## Degree Requirements

### Option 1: Thesis

(30 hours of coursework; 6 hours of thesis)

- For this option at least 15 hours of coursework must be seminar-level.

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses for both Thesis and Non-Thesis Options, Select Two</b>  |  | <b>6</b>  |
| ENGL 8010   | SEMINAR: TEXT-BASED RESEARCH METHODS FOR ENGLISH STUDIES |           |
| ENGL 8030   | FIELD-BASED RESEARCH METHODS IN ENGLISH STUDIES          |           |
| ENGL 8040   | WRITING FOR PUBLICATION                                  |           |
| <b>Electives</b>  |  |           |
| Select 24 hours for the Thesis Option, 9 hours of which must be seminars. Seminars end in a zero (0) (see below). |  | <b>24</b> |
| <b>Thesis Requirement</b>   |  |           |
| ENGL 8990   | THESIS   | <b>6</b>  |
| <b>Total Credits</b>  |  | <b>36</b> |

### Option 2: Non-Thesis

(36 hours of coursework)

- For this option at least 18 hours of coursework must be seminar-level.

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses for both Thesis and Non-Thesis Options, Select Two</b>  |  | <b>6</b>  |
| ENGL 8010   | SEMINAR: TEXT-BASED RESEARCH METHODS FOR ENGLISH STUDIES |           |
| ENGL 8030   | FIELD-BASED RESEARCH METHODS IN ENGLISH STUDIES          |           |
| ENGL 8040   | WRITING FOR PUBLICATION                                  |           |
| <b>Electives</b>  |  |           |
| Select 27 hours for the Non-Thesis Option, 9 hours of which must be seminars. Seminars end in a zero (0) (see below). |  | <b>27</b> |
| <b>Exit Requirement</b>   |  |           |
| ENGL 8980   | GRADUATE CUMULATIVE EXPERIENCE WORKSHOP SEMINAR          | <b>3</b>  |
| <b>Total Credits</b>  |  | <b>36</b> |



## Electives for both Thesis and Non-Thesis Options

Any ENGL Graduate Course 8000 or above

### Coursework Outside English

With the approval of the student's advisor and the English graduate program committee, a student may include a minor or coursework from another related discipline or disciplines as part of the plan of study. For both the thesis and non-thesis options, a minor is nine hours (3 courses). The maximum amount of coursework that may be applied from another discipline or disciplines is the same as that for a minor in both options (nine hours).

## Exit Requirement

### Option 1 Thesis:

- ENGL 8990 Thesis six hours

### Option 2 Non-Thesis:

- ENGL 8980 Capstone

**Special Note:** Students who were undergraduate students at UNO cannot take a dual-listed course at the graduate level if they have already taken the course at the undergraduate level.

# Creative Nonfiction Writing, Editing and Publishing Certificate

The graduate certificate in creative nonfiction writing, editing, and publishing is designed for students interested in becoming more expressive, powerful writers of nonfiction prose. Students interested in securing publication of their writing are mentored in the publication process by the faculty.

The creative nonfiction writing, editing, and publishing certificate is designed for the following students:

- Writers interested in developing and publishing their creative nonfiction;
- Graduate students in English and related fields;
- Educators seeking writing-specific training and credentials;
- Working professionals who either are currently employed or will be seeking employment as experts in written communication;
- Individuals who work in community service organizations;
- Individuals dedicated to cultural activities in the community.

## Program Related Information

### Program Contact

John Price, PhD, Director  
jtprice@unomaha.edu 402.554.3325

Ramon Guerra, PhD, Graduate Program Chair (GPC)  
unoenglishgradschool@unomaha.edu  
402.554.3636

**Program Website** (<http://www.unomaha.edu/college-of-arts-and-sciences/english/academics/graduate-programs/#aw>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

## Other Requirements

- Applicants must have completed a baccalaureate degree in English, or a related degree, with at least a 3.0 (on a 4.0 scale) GPA
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 105
  - If interested in a graduate assistantship minimum scores are as follows. Internet-based TOEFL: 100, IELTS: 7.5, PTE: 68, Duolingo: 130
- **Statement of Purpose** (letter of intent): The statement (of about 500-1000 words) should convey the applicant's interest in creative nonfiction, previous study in the field of English, any relevant work or life experience, reason for pursuing a graduate certificate in creative nonfiction writing, editing and publishing or anything else that conveys the applicant's related creative and intellectual interests.

## Degree Requirements

| Code  | Title   | Credits |
|---|---|---------|
| <b>Required Core Courses</b>  |   |         |
| Select a minimum of 9 credits from the following list: <sup>1</sup> |   | 9       |
| ENGL 8040   | WRITING FOR PUBLICATION   |         |
| ENGL/CACT 8640  | CREATIVE NONFICTION IN DIGITAL ENVIRONMENTS                     |         |
| ENGL 8800   | SEMINAR: TOPICS IN ENGLISH LANGUAGE AND LITERATURE <sup>2</sup> |         |
| ENGL 8826   | AUTOBIOGRAPHY   |         |
| ENGL 8846   | TRAVEL WRITING  |         |
| ENGL 8850   | SEM: SPIRITUAL NONFICTION                                       |         |
| ENGL 8866   | THE MODERN FAMILIAR ESSAY                                       |         |
| ENGL 8890   | SEM: EXPERIMENTS IN CREATIVE NONFICTION                         |         |
| ENGL 8936   | NARRATIVE NONFICTION  |         |
| ENGL 8946   | PUBLISHING THE LINDEN REVIEW                                    |         |
| ENGL 8966   | TOPICS IN LANGUAGE AND LITERATURE <sup>3</sup>                  |         |
| ENGL 8976   | WRITING ABOUT SICKNESS AND HEALTH                               |         |

### Electives

|  |   |   |
|--|---|---|
| Select a maximum of 6 credits from the following list: |   | 6 |
| ENGL 8100  | SEMINAR: TOPICS IN AMERICAN LITERATURE <sup>4</sup> |   |

|           |  |
|-----------|--|
| ENGL 8310 | ECOLOGICAL WRITING AND ANALYSIS                |
| ENGL 8750 | OXBOW WRITING PROJECT                          |
| ENGL 8806 | ENGLISH INTERNSHIP                             |
| ENGL 8816 | DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS |
| ENGL 8836 | TECHNICAL COMMUNICATION                        |
| ENGL 8856 | INFORMATION DESIGN FOR TECHNICAL COMMUNICATORS |
| ENGL 8876 | TECHNICAL EDITING                              |
| PA 8520   | SEMINAR IN GRANT WRITING                       |
| TED 8410  | IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS     |

**Total Credits****15**

- <sup>1</sup> Students may elect to take all 15 credits from the Required Core list. Alternatively, students may elect to take up to 6 of those credits from the Electives list.
- <sup>2</sup> For ENGL 8800, topics must be related to advanced writing such as rhetoric and memory, nature writing, etc.
- <sup>3</sup> For ENGL 8966, topics must be related to advanced writing such as narrative nonfiction, graphic memoir, food writing, writing women's lives or publishing the Linden Review.
- <sup>4</sup> For ENGL 8100, topic must be Native American Nonfiction.

## Exit Requirements

### Portfolio Requirement

Students will assemble a portfolio representing their achievement in the five courses (15 hours) applied toward the creative nonfiction writing, editing and publishing certificate. The portfolio will contain at least one writing sample from each course and will be reviewed by the student's advisor and one other graduate faculty member involved in offering courses approved for this certificate. As part of the portfolio requirement, each student will make an oral presentation to the reviewing professors. During that discussion, special attention will be given to each student's professional goals for their writing. Please see the website (<http://www.unomaha.edu/college-of-arts-and-sciences/english/academics/graduate-programs/>) for the creative nonfiction writing, editing and publishing graduate certificate for a more detailed description of the portfolio requirement and the deadlines for submission.

## Literature and Culture Certificate

The graduate certificate in literature and culture offers an education in the intersection between literature written in English—either originally or in translation—with human culture broadly considered. The certificate will give high school teachers the credential to teach preparatory coursework worthy of college credit at UNO and other universities. And it is also designed as a continuing education option for anyone wishing to study literature at a post-baccalaureate level for personal enrichment. The certificate can be earned as part of the larger MA in English at UNO, and it can also be applied toward completion of that larger program retroactively.

The certificate will teach:

- literature of every period, from ancient to modern, in a variety of thematic and historical contexts;
- cultural encounters captured imaginatively on the pages of the literary text;
- the relationship of a culture to the literature produced within it, both harmonious and discordant;

- theories of literary effects on the course of human culture and history; and
- literature as a celebrated artifact of human hope, critique, and beauty.

Although applicants need no formal training in literature to enroll, they should expect to be immersed in a professional discipline of literary study with a research component. One especially designated course required for the certificate will provide training for students in the methodology of literary research.

## Program Related Information

### Program Contacts

Robert Darcy, PhD, Director

402.554.2638

[rdarcy@unomaha.edu](mailto:rdarcy@unomaha.edu) ([rguerra@unomaha.edu](mailto:rguerra@unomaha.edu))

Ramon Guerra, PhD, Graduate Program Chair (GPC)

402.554.3636

[unoenglishgradschool@unomaha.edu](mailto:unoenglishgradschool@unomaha.edu)

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/english/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- Applicants must have completed a baccalaureate degree with at least a 3.0 (on a 4.0 scale) GPA. Undergraduate study of literature is required. Students who do not bring 18 hours of undergraduate study in English, however, would be obligated to enroll in ENGL 8010 as their *first* course of study in the certificate.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 100, IELTS: 7.5, PTE: 68, Duolingo: 130

## Degree Requirements

| Code                    | Title  | Credits   |
|-------------------------|--|-----------|
| <b>Required Courses</b> |  |           |
| ENGL 8010               | SEMINAR: TEXT-BASED RESEARCH METHODS FOR ENGLISH STUDIES | 3         |
| <b>Electives</b>        |  | <b>15</b> |
| ENGL 8026               | AMERICAN POETRY TO 1900                                  |           |
| ENGL 8036               | AMERICAN POETRY SINCE 1900                               |           |
| ENGL 8070               | SEMINAR: WALT WHITMAN AND EMILY DICKINSON                |           |
| ENGL 8190               | BOOK-SMART: EDUCATION IN LITERATURES AND CULTURES        |           |

|           |   |
|-----------|---|
| ENGL 8216 | THE HARLEM RENAISSANCE  |
| ENGL 8286 | QUEER AMERICAN WESTS  |
| ENGL 8336 | RENAISSANCE SATIRE  |
| TED 8660  | YOUNG ADULT LITERATURE  |
| ENGL 8956 | BRINGING THE WAR HOME:<br>DEPICTIONS OF WAR VETERANS IN<br>LITERATURE AND FILM                            |
| TED 8800  | MULTICULTURAL LITERATURE FOR<br>CHILDREN AND YOUTH  |
| ENGL 8066 | THE AMERICAN NOVEL  |
| ENGL 8100 | SEMINAR: TOPICS IN AMERICAN<br>LITERATURE   |
| ENGL 8146 | AMERICAN LITERARY REALISM AND<br>NATURALISM   |
| ENGL 8160 | SEMINAR: POSTMODERN FICTION OF<br>THE UNITED STATES   |
| ENGL 8166 | TOPICS IN AMERICAN REGIONALISM  |
| ENGL 8236 | LATINO LITERATURE   |
| ENGL 8246 | TEACHING LATINO LITERATURE  |
| ENGL 8256 | WOMEN'S STUDIES IN LITERATURE   |
| ENGL 8266 | GLOBAL WOMEN WRITERS  |
| ENGL 8276 | WOMEN WRITERS OF THE NORTH<br>AMERICAN WEST   |
| ENGL 8300 | SEMINAR: SHAKESPEARE  |
| ENGL 8306 | ANGLO-SAXON LITERATURE  |
| ENGL 8326 | CHAUCE  |
| ENGL 8346 | SHAKESPEARE   |
| ENGL 8376 | RESTORATION AND EIGHTEENTH-<br>CENTURY LITERATURE   |
| ENGL 8396 | MEDIEVAL CELTIC LITERATURE  |
| ENGL 8410 | IMMIGRATION, MIGRATION, AND<br>DIASPORA: CRITICAL APPROACHES<br>AND THEORIES OF MOVEMENT IN<br>LITERATURE |
| ENGL 8416 | LITERATURE OF THE ROMANTIC PERIOD   |
| ENGL 8426 | NINETEENTH-CENTURY ENGLISH AND<br>ANGLOPHONE LITERATURES  |
| ENGL 8436 | THE BRITISH AND ANGLOPHONE NOVEL<br>(19TH AND 20TH CENTURY)   |

**Total Credits****18**

## English Dual Enrollment Certificate

This graduate certificate is intended for high school English teachers, primarily in the 19 states under the jurisdiction of the Higher Learning Commission (HLC) but also elsewhere in the country, all of whom need to have completed at least 18 hours of graduate English courses to teach dual/concurrent enrollment courses at the post-secondary level.

- For educators seeking credentials to teach dual enrollment courses
- Individuals seeking primarily online modality

## Program Contact Information

### Program Contacts

Charles Johanningsmeier, PhD, Director  
jmeier@unomaha.edu  
402.554.3319

Ramon Guerra, PhD, Graduate Program Chair (GPC)  
unoenglishgradschool@unomaha.edu  
402.554.3636  
Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/english/academics/graduate-programs/#aw>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- Applicants must have completed a baccalaureate degree in English or a related degree with at least a 3.0 (on a 4.0 scale) GPA.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Paper-based TOEFL: 550, Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** The statement, 1-2 pages single spaced should articulate the applicant's career goals any relevant work or life experience, reason for pursuing a graduate certificate, and anything else that might help convey the applicant's personality, spirit, or intellectual character.

## Degree Requirements

| Code      | Title   | Credits |
|-----------|---|---------|
| ENGL 8010 | SEMINAR: TEXT-BASED RESEARCH<br>METHODS FOR ENGLISH STUDIES   | 3       |
| ENGL 8190 | BOOK-SMART: EDUCATION IN<br>LITERATURES AND CULTURES  | 3       |
| ENGL 8216 | THE HARLEM RENAISSANCE  | 3       |
| ENGL 8246 | TEACHING LATINO LITERATURE  | 3       |
| ENGL 8346 | SHAKESPEARE   | 3       |
| ENGL 8410 | IMMIGRATION, MIGRATION, AND<br>DIASPORA: CRITICAL APPROACHES<br>AND THEORIES OF MOVEMENT IN<br>LITERATURE | 3       |
| ENGL 8496 | GREAT WORKS OF BRITISH LITERATURE   | 3       |
| ENGL 8610 | PROFESSIONAL AND TECHNICAL<br>WRITING   | 3       |
| ENGL 8615 | INTRODUCTION TO LINGUISTICS   | 3       |
| ENGL 8626 | HISTORY OF ENGLISH  | 3       |
| ENGL 8630 | DIGITAL RHETORIC  | 3       |
| ENGL 8640 | CREATIVE NONFICTION IN DIGITAL<br>ENVIRONMENTS  | 3       |
| ENGL 8646 | APPLIED LINGUISTICS   | 3       |
| ENGL 8650 | WRITING ACROSS DIFFERENCES:<br>RHETORICAL THEORY FOR PERSUASION<br>AND PUBLIC ADVOCACY                    | 3       |
| ENGL 8656 | STRUCTURE OF ENGLISH  | 3       |
| ENGL 8676 | SOCIOLINGUISTICS  | 3       |
| ENGL 8770 | L2 COMPOSITION PEDAGOGY   | 3       |

|                      |  |           |
|----------------------|--|-----------|
| ENGL 8816            | DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS                           | 3         |
| ENGL 8836            | TECHNICAL COMMUNICATION  | 3         |
| ENGL 8876            | TECHNICAL EDITING  | 3         |
| ENGL 8856            | INFORMATION DESIGN FOR TECHNICAL COMMUNICATORS                           | 3         |
| ENGL 8896            | CAPSTONE COURSE IN TECHNICAL COMMUNICATION                               | 3         |
| ENGL 8956            | BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM | 3         |
| <b>Total Credits</b> |  | <b>18</b> |

## Teaching English to Speakers of Other Languages Certificate

In the United States, the need for well-prepared language teachers is constant. Teachers are more likely than ever to have the opportunity to teach students who come from a variety of cultural and linguistic backgrounds.

The Department of English offers students the opportunity to obtain a certificate in teaching English to speakers of other languages (TESOL). This is a rigorous 12-hour/4-course graduate certificate. Normally, students are able to complete the certificate requirements within three semesters.

The graduate TESOL certificate is a rigorous academic credential that includes a focus on the structure of the English language, theories of second language learning, and approaches to classroom pedagogy. All teachers will eventually work with nonnative speakers, so all teaching concentrations—like math, history, science, and social studies—are welcome.

A TESOL certificate does not certify a graduate to teach in Nebraska public schools. Instead, it is an academic credential meant for teachers already certified in other areas, for people who plan to teach in venues other than public schools, and for anyone who works in some capacity with non-native speakers of English.

Students in teacher education or in speech/language pathology should contact the TESOL director prior to applying to this program.

## Program Related Information

### Program Contacts

Sarah Osborn, PhD, TESOL Director  
402.554.2955  
srfosborn ()@unomaha.edu (rguerra@unomaha.edu)

Ramon Guerra, PhD, Graduate Program Chair (GPC)  
402.554.3636  
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**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/english/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted

prior to the beginning of the semester in which the student has elected to begin coursework.

## Other Requirements

- An Introduction to Linguistics course is required. Equivalent course(s) from other institutions will be considered.
- Students in the College of Education, Health, and Human Sciences should meet with the TESOL director to plan a program of study.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
  - If interested in a graduate assistantship ship minimum scores are as follows. Internet-based TOEFL: 100, IELTS: 7.5, PTE: 68, Duolingo: 130

## Degree Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>Required Course</b>  |   |           |
| ENGL 8656   | STRUCTURE OF ENGLISH                          | 3         |
| Select one of the following:  |   | 3         |
| ENGL 8646   | APPLIED LINGUISTICS                           |           |
| TED 8006  | SPECIAL METHODS IN THE CONTENT AREA           |           |
| Select one of the following:  |   | 3         |
| ENGL 8626   | HISTORY OF ENGLISH                            |           |
| ENGL 8676   | SOCIOLINGUISTICS                              |           |
| Select one of the following:  |   | 3         |
| ENGL 8020   | SEMINAR: COLLEGE WRITING INSTRUCTION          |           |
| ENGL 8756   | COMPOSITION THEORY & PEDAGOGY                 |           |
| ENGL 8770   | L2 COMPOSITION PEDAGOGY                       |           |
| ENGL 8775   | WRITING CENTER THEORY, PEDAGOGY, AND RESEARCH |           |
| ENGL 8806   | ENGLISH INTERNSHIP <sup>1</sup>               |           |
| <b>Substitutions</b>  |   |           |
| Under special circumstances, the TESOL certificate director may approve up to six hours of substitutions. |   |           |
| <b>Total Credits</b>  |   | <b>12</b> |

<sup>1</sup> With a TESOL focus

Students are encouraged to take more than the minimum number of required courses and may not repeat any courses already taken at the undergraduate level. The linguistics faculty strongly recommends that all TESOL certificate students achieve an oral and written proficiency in a language other than English.

## Technical Communication Certificate

The graduate certificate in technical communication is designed for graduate students and industry professionals seeking a foundation in the theory and practice of technical communication. This foundation provides students with the kinds of competencies expected from technical

communication professionals, including writing, editing, design, and software applications.

The technical communication certificate is designed for the following students:

- Part- and full-time UNO students pursuing graduate degrees, who are seeking a cognate area outside, but relevant to, their primary program of study;
- Industry professionals seeking to develop the knowledge and skills for a career in technical communication; and
- Business or technical professionals seeking to enhance their employment opportunities through a professional development program.

## Program Related Information

### Program Contact

Tracy Bridgeford, PhD, Director  
402.554.3312  
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Ramon Guerra, PhD, Graduate Program Chair (GPC)  
402.554.3636  
unoenglishgradschool@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/english/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- Applicants must have completed a baccalaureate degree in English or a related degree with at least a 3.0 (on a 4.0 scale) GPA.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Paper-based TOEFL: 550, Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
  - If interested in a graduate assistantship ship minimum scores are as follows. Paper-based TOEFL: 600, Internet-based TOEFL: 100, IELTS: 8, PTE: 68, Duolingo: 120
- **Statement of Purpose:** The statement, about 500-1000 words, should articulate the applicant's career goals regarding interest in technical communication, any relevant work or life experience, reason for pursuing a graduate certificate in technical communication, and anything else that might help convey the applicant's personality, spirit, or intellectual character.

## Degree Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses</b>   |  |           |
| ENGL 8816   | DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS | 3         |
| ENGL 8836   | TECHNICAL COMMUNICATION                        | 3         |
| ENGL 8856   | INFORMATION DESIGN FOR TECHNICAL COMMUNICATORS | 3         |
| Or other approved courses in consultation with the director.        |  |           |
| <b>Electives</b>  |  |           |
| Select 6 hours from the following:                                  |  | 6         |
| ENGL 8806   | ENGLISH INTERNSHIP                             | 1-3       |
| ENGL 8876   | TECHNICAL EDITING                              | 3         |
| ENGL 8896   | CAPSTONE COURSE IN TECHNICAL COMMUNICATION     | 3         |
| ENGL/CACT 8610  | PROFESSIONAL AND TECHNICAL WRITING             | 3         |
| Additional courses may be substituted with the director's approval. |  |           |
| <b>Total Credits</b>  |  | <b>15</b> |

### Exit Requirement

Students will assemble a final portfolio representing their achievement in the five courses (15 hours). The portfolio will contain at least one writing sample/project from each course and will be reviewed by the technical communication program director and one other member of the graduate faculty from the Department of English. Faculty teaching these courses will be aware of this portfolio requirement and will assign work that can be used as part of the portfolio (e.g., a report, user's manual, website, etc.).

## Biomechanics and Kinesiology, PhD

The doctoral degree in biomechanics and kinesiology at the University of Nebraska at Omaha (UNO) is a joint program between the Department of Biomechanics and the School of Health and Kinesiology. The degree is based on the physiology, biochemistry, biophysics, motor control and development, and psychology of human movement. The program is aimed at developing researchers who are working to improve movement function and physical activity using evidence-based approaches through interdisciplinary clinical and translational research. A problem-solving approach is used across the age and health spectrum for disease prevention, health enhancement, physical rehabilitation, and motivation for physical activity. The program offers four areas of concentration in biomechanics, physiology of exercise, motor development and control, and physical activity.

## Program Related Information

### Program Contact

unobiomechanics@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/biomechanics-core-facility/academic-programs/graduate-programs.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)



## Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework. To receive full consideration for departmental assistantships, applications must be received by January 31st.

## Other Requirements

- GPA of 3.2 in master's program or in the last 30 hours of previous graduate work
- Master's degree, or minimum of 30 graduate hours in a related field, e.g., health, physical therapy
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53 with a score of at least 20 in all categories (listening, reading, writing, and speaking), Duolingo: 110
- **Statement of Purpose:** Needs to state goals and objectives for seeking the degree. Students will identify their intended area of focus and the name of the faculty advisor with whom they wish to work (maximum 500 words).
- **Writing Sample:** Provide a writing sample which could include: first-author scientific paper, thesis proposal, research paper, or similar example showcasing the student's aptitude for writing.
- **Resume/CV**
- **Letters of Recommendation:** Three are required
- **Undergraduate Course Deficiencies:** these courses are determined by the student's mentor in collaboration with their supervisory committee. Each student's individual deficiency courses will be approved in their program of study.
- **Identification and confirmation by a faculty member willing to act as advisor and mentor to the student (see program-related information).** The applicant is expected to contact a potential advisor to determine if a suitable match in interests exists. This assures that the student will be able to develop a program of study that meets the specific goals intended. Please note that assistantship funding is a separate process and should be discussed with your faculty mentor.

## Degree Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>                                    |   | <b>21</b> |
| BMKI 9001<br>or BMKI 9031                                  | RESEARCH IN HEALTH & KINESIOLOGY<br>BIOSTATISTICS IN BIOMECHANICS I |           |
| BMKI 9041<br>or BMKI 9040                                  | ADVANCED STATISTICS<br>BIOSTATISTICS IN BIOMECHANICS II             |           |
| BMKI 9000  | GRANT WRITING FOR THE BIOMEDICAL SCIENCES                           |           |
| BMKI 9010  | PRINCIPLES AND PRACTICE OF BIOMEDICAL RESEARCH                      |           |
| Take the following course for a minimum of 9 credit hours: |   |           |
| BMKI 9910  | DOCTORAL SEMINAR  |           |
| <b>Concentrations</b>                                      |   |           |
| See Biomechanics and Kinesiology, PhD Concentrations       |   | 24        |

|                      |              |           |
|----------------------|--------------|-----------|
| BMKI 9990            | DISSERTATION | 15        |
| <b>Total Credits</b> |              | <b>60</b> |

- <sup>1</sup> If required courses have previously been taken, additional research core courses must be taken in order to meet the 21-hour requirement.
- <sup>2</sup> This seminar is designed to enhance success in academia and maximize the student's research experiences. The student will be required to register for at least 9 credit hours (typically 3 hours per semester following their first year in the program). In these credit hours the student will attend formal reading clubs with the advisor where he/she will be engaged in reviewing the related literature via journal articles, conducting research projects, reviews of literature, meta-analyses, etc. In addition, the student will be taught how to write successful grants and develop a successful line of research. Each semester for a graded outcome, the student will have to produce material such as a manuscript based on data acquired in the laboratory from the ideas developed in the seminar, a grant that will support the research ideas developed, or significant progress on a research-related project. Students will co-develop these graded outcomes each semester and submit them for approval to the doctoral program committee.

## Exit Requirements

- Comprehensive Examination
- Dissertation

## Program Related Information

### Advisor

- Preliminary contact is made with a potential advisor prior to applying to the program. Prior to being admitted, a student must confirm mentorship with an advisor based on mutual interests and willingness of the advisor to take on the student.

### Program of Study ( must have 45 hours remaining after approval)

- The student and his/her advisor will determine the program of study, including the required courses, deficiency courses, and general area of research for the dissertation. The program of study must be completed by the end of the first year and approved by the faculty mentor and one additional faculty member from their respective school or department (considered the program committee) as well as the Doctoral Program Committee chair. After this approval, the student will submit the program of study form with course information to the Office of Graduate. Please note, no more than six independent study/ research credit hours are recommended; however, the program of study is determined by the student, faculty mentor, and an additional faculty member in the school or department.

### Comprehensive Exam

- The required comprehensive exam will be taken towards the end of the student's coursework. The supervisory committee, in conjunction with the student will determine the nature of the exam; the exam could include a take-home exam followed by an oral defense, or writing an NIH-type grant followed by an oral exam. The supervisory committee will evaluate the exam. Once a student passes their comprehensive exam they are considered a doctoral candidate.

### Dissertation Committee

- In the first semester of a students' third year, the student must form a dissertation committee. The student must submit the Appointment of Dissertation Committee form consisting of at least four University of Nebraska graduate faculty members, one of whom must be from outside the student's academic department/school in which the doctorate is to be granted. The chair of the dissertation committee must be a member of the graduate faculty. The outside representative must hold graduate faculty status within the NU system. The dean

for Graduate Studies at UNO will appoint the committee upon recommendation of the advisor. The committee will be responsible for approving the comprehensive exam, dissertation proposal, dissertation, and its oral defense. Please note, if the potential objectives of a dissertation topic change, the dissertation committee can be altered at any time.

### Dissertation Proposal Form

- Within one year of successfully completing the comprehensive exam and being admitted to candidacy, a formal research proposal for the dissertation topic should be presented to the supervisory committee. The format of the proposal is subject to approval by the advisor and the supervisory committee. The proposal could include a formal written proposal with an oral defense or oral presentation of the proposed research project.

### Dissertation

- After successfully completing the comprehensive exam and being admitted to degree candidacy, the student must register for at least one credit hour of dissertation for each semester until completion of the degree. A minimum of 15 hours of dissertation credit must be completed within the course of the degree.
- It is expected that the dissertation will result in manuscript submissions in referred journals in the discipline.
- Upon completion of the dissertation, an updated CV and the program exit survey must be submitted to the Doctoral Program Committee chair.

### Residency

- The residency will be reasonably compact, continuous, and coherent, and a substantial portion done at and under close supervision of the university. Most of the students in the program will be full-time and continuously enrolled.

## Concentrations

### Biomechanics Concentration

| Code                               | Title  | Credits   |
|------------------------------------|--|-----------|
| <b>Required Courses</b>            |  | <b>15</b> |
| BMKI 9451                          | ADVANCED BIOMECHANICS                                    |           |
| BMKI 9460                          | ADVANCED BIOMECHANICS II                                 |           |
| BMKI 9401                          | MOTOR LEARNING I   |           |
| or BMKI 9411                       | MOTOR CONTROL I  |           |
| or BMKI 9421                       | MOTOR DEVELOPMENT  |           |
| BMKI 9500                          | MOTOR LEARNING II  |           |
| or BMKI 9510                       | MOTOR CONTROL II   |           |
| or BMKI 9520                       | MOTOR DEVELOPMENT II                                     |           |
| PHYS 8455                          | CLASSICAL MECHANICS                                      |           |
| <b>Electives</b>                   |  |           |
| Select 9 hours from the following: |  | 9         |
| BMCH 8106                          | BIOINSPIRED ROBOTICS                                     |           |
| BMCH 8206                          | METHODS IN BIOMECHANICS I                                |           |
| BMCH 8216                          | METHODS IN BIOMECHANICS II                               |           |
| BMCH 8646                          | ORTHOPEDIC BIOMECHANICS                                  |           |
| BMKI 9101                          | Nonlinear Analysis for Movement Studies                  |           |
| BMKI 9131                          | IMPLEMENTING PHYSICAL ACTIVITY IN DIVERSE POPULATIONS    |           |
| BMKI 9141                          | PHYSICAL ACTIVITY ASSESSMENT AND HEALTH RELATED RESEARCH |           |
| BMKI 9201                          | MATLAB FOR MOVEMENT SCIENCES                             |           |
| BMKI 9221                          | METHODS IN CARDIOVASCULAR BIOMATERIALS RESEARCH          |           |

|                |   |
|----------------|---|
| BMKI 9300      | SYSTEMATIC REVIEW AND META-ANALYSIS                   |
| BMKI 9411      | MOTOR CONTROL I                                       |
| BMKI 9421      | MOTOR DEVELOPMENT                                     |
| BMKI 9510      | MOTOR CONTROL II                                      |
| BMKI 9520      | MOTOR DEVELOPMENT II                                  |
| BMKI 9851      | EXERCISE FOR SPECIAL POPULATIONS                      |
| BMKI 9870      | MUSCULOSKELETAL SIMULATION                            |
| BMKI 9911      | INDEPENDENT STUDY IN BIOMECHANICS                     |
| BMKI 9951      | ADVANCED EXERCISE PHYSIOLOGY                          |
| BMKI 9960      | ADVANCED EXERCISE PHYSIOLOGY II                       |
| BMKI 9691      | MATHEMATICS OF BIOMECHANICAL DATA PROCESSING          |
| BSEN 814       | Medical Imaging Systems                               |
| BSEN 912       | Advanced Diagnostic Ultrasound Imaging                |
| CEEN 8336      | Microprocessor System Design                          |
| CEEN 8366      | Embedded Microcontroller Design                       |
| CIP 814        | Scientific Writing                                    |
| CIP 817        | Applied Scientific Writing                            |
| CSCI 8325      | DATA STRUCTURES                                       |
| CSCI 8400      | ADVANCED COMPUTER GRAPHICS                            |
| CSCI 8456      | PRINCIPLES OF ARTIFICIAL INTELLIGENCE                 |
| CSCI 8476      | PATTERN RECOGNITION                                   |
| CSCI/MATH 8500 | NUMERICAL LINEAR ALGEBRA                              |
| CSCI/MATH 8510 | NUMERICAL DIFFERENTIAL EQUATIONS                      |
| CSCI 8626      | 3D COMPUTER GRAPHICS                                  |
| CSCI 8256      | HUMAN COMPUTER INTERACTION                            |
| ELEC 8606      | Labview Programming                                   |
| ELEC 8636      | Digital Signal Processing                             |
| ELEC 9150      | Adaptive Signal Processing                            |
| ENGL 8610      | PROFESSIONAL AND TECHNICAL WRITING                    |
| GCBA 812       | Human Neuranatomy                                     |
| GERO/PHHB 8556 | HEALTH ASPECTS OF AGING                               |
| GERO 9460      | SEMINAR IN AGING AND HUMAN BEHAVIOR                   |
| HEKI 8300      | ANALYSIS OF RESEARCH AND LITERATURE IN HUMAN MOVEMENT |
| HEKI 8500      | QUALITATIVE RESEARCH METHODS                          |
| HCC 8006       | SPECIAL TOPICS IN IT INNOVATION                       |
| MATH 8250      | PARTIAL DIFFERENTIAL EQUATIONS                        |
| MATH 8336      | INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS        |
| MATH 8356      | ORDINARY DIFFERENTIAL EQUATIONS                       |
| MATH 8080      | DESIGN AND ANALYSIS OF ALGORITHMS                     |
| MATH/CSCI 8306 | DETERMINISTIC OPERATIONS RESEARCH MODELS              |
| MATH/CSCI 8316 | PROBABILISTIC OPERATIONS RESEARCH MODELS              |
| MATH 8400      | DYNAMICAL SYSTEMS AND CHAOS                           |
| MATH/CSCI 8766 | TOPICS IN APPLIED MATHEMATICS                         |
| MATH 9110      | ADVANCED TOPICS IN APPLIED MATHEMATICS                |
| NEUR 8006      | SYSTEMS NEUROSCIENCE                                  |
| KINS 8086      | CLINICAL EXERCISE PHYSIOLOGY                          |

|           |  |
|-----------|--|
| KINS 8856 | CARDIOVASCULAR DISEASE PREVENTION AND REHABILITATION |
| PHYS 8505 | ELEMENTS OF ELECTRONICS                              |
| PSYC 9010 | PROSEMINAR: STATISTICAL METHODS I                    |
| PSYC 9020 | PROSEMINAR: STATISTICAL METHODS II                   |
| PSYC 9070 | PROSEMINAR: COGNITIVE PSYCHOLOGY                     |

**Total Credits** **24**

## Motor Development and Control Concentration

| Code                    | Title                                   | Credits   |
|-------------------------|---|-----------|
| <b>Required Courses</b> |   | <b>15</b> |
| BMKI 9421               | MOTOR DEVELOPMENT                       |           |
| BMKI 9460               | ADVANCED BIOMECHANICS II                |           |
| BMKI 9500               | MOTOR LEARNING II                       |           |
| BMKI 9510               | MOTOR CONTROL II                        |           |
| BMKI 9101               | Nonlinear Analysis for Movement Studies |           |

### Electives

Select 9 hours from the following: **9**

|                     |  |
|---------------------|--|
| BMCH 8206           | METHODS IN BIOMECHANICS I                                |
| BMCH 8216           | METHODS IN BIOMECHANICS II                               |
| BMKI 9141           | PHYSICAL ACTIVITY ASSESSMENT AND HEALTH RELATED RESEARCH |
| BMKI 9201           | MATLAB FOR MOVEMENT SCIENCES                             |
| BMKI 9221           | METHODS IN CARDIOVASCULAR BIOMATERIALS RESEARCH          |
| BMKI 9300           | SYSTEMATIC REVIEW AND META-ANALYSIS                      |
| BMKI 9401           | MOTOR LEARNING I   |
| BMKI 9411           | MOTOR CONTROL I  |
| BMKI 9520           | MOTOR DEVELOPMENT II                                     |
| BMKI 9451           | ADVANCED BIOMECHANICS                                    |
| BMKI 9691           | MATHEMATICS OF BIOMECHANICAL DATA PROCESSING             |
| BMKI 9810           | HIGHER EDUCATION TEACHING SEMINAR                        |
| BMKI 9820           | SERVICE EXPERIENCE IN HIGHER EDUCATION                   |
| BMKI 9851/HEKI 8850 | EXERCISE FOR SPECIAL POPULATIONS                         |
| BMKI 9870           | MUSCULOSKELETAL SIMULATION                               |
| BMKI 9911           | INDEPENDENT STUDY IN BIOMECHANICS                        |
| BMKI 9951           | ADVANCED EXERCISE PHYSIOLOGY                             |
| BMKI 9960           | ADVANCED EXERCISE PHYSIOLOGY II                          |
| CSCI 8626           | COMPUTER GRAPHICS  |
| CSCI 8256           | HUMAN COMPUTER INTERACTION                               |
| ELEC 8606           | Labview Programming                                      |
| ELEC 8636           | Digital Signal Processing                                |
| ELEC 9150           | Adaptive Signal Processing                               |
| ENGL 8610           | PROFESSIONAL AND TECHNICAL WRITING                       |
| GERO/PHHB 8556      | HEALTH ASPECTS OF AGING                                  |
| GERO 9460           | SEMINAR IN AGING AND HUMAN BEHAVIOR                      |
| NEUR 8006           | SYSTEMS NEUROSCIENCE                                     |
| KINS 8086           | CLINICAL EXERCISE PHYSIOLOGY                             |

|                                    |   |
|------------------------------------|---|
| KINS 8130/9131                     | IMPLEMENTING PHYSICAL ACTIVITY IN DIVERSE POPULATIONS |
| KINS 8856                          | CARDIOVASCULAR DISEASE PREVENTION AND REHABILITATION  |
| KINS 8700                          | PSYCHOLOGY OF PHYSICAL ACTIVITY                       |
| HEKI 8300                          | ANALYSIS OF RESEARCH AND LITERATURE IN HUMAN MOVEMENT |
| HEKI 8500                          | QUALITATIVE RESEARCH METHODS                          |
| MATH 8400                          | DYNAMICAL SYSTEMS AND CHAOS                           |
| MATH 9110                          | ADVANCED TOPICS IN APPLIED MATHEMATICS                |
| PSYC 9070                          | PROSEMINAR: COGNITIVE PSYCHOLOGY                      |
| PSYC 9230                          | PROSEMINAR: BEHAVIORAL NEUROSCIENCE                   |
| PSYC 9560                          | PROSEMINAR: DEVELOPMENTAL PSYCHOLOGY                  |
| UNMC: GCBA 812, PEDS 913, PHYT 942 |   |

**Total Credits** **24**

## Physical Activity Concentration

| Code                    | Title  | Credits   |
|-------------------------|--|-----------|
| <b>Required Courses</b> |  | <b>15</b> |
| BMKI 9131               | IMPLEMENTING PHYSICAL ACTIVITY IN DIVERSE POPULATIONS    |           |
| BMKI 9141               | PHYSICAL ACTIVITY ASSESSMENT AND HEALTH RELATED RESEARCH |           |
| BMKI 9300               | SYSTEMATIC REVIEW AND META-ANALYSIS                      |           |
| BMKI 9701/KINS 8700     | PSYCHOLOGY OF PHYSICAL ACTIVITY                          |           |
| BMKI 9050               | PHYSICAL ACTIVITY EPIDEMIOLOGY                           |           |

### Electives

Select 9 hours from the following: **9**

|           |  |
|-----------|--|
| KINS 8120 | CURRENT TOPICS IN WEIGHT MANAGEMENT                  |
| KINS 8856 | CARDIOVASCULAR DISEASE PREVENTION AND REHABILITATION |
| BMKI 9951 | ADVANCED EXERCISE PHYSIOLOGY                         |
| BMKI 9810 | HIGHER EDUCATION TEACHING SEMINAR                    |
| BMKI 9820 | SERVICE EXPERIENCE IN HIGHER EDUCATION               |
| BMKI 9401 | MOTOR LEARNING I                                     |
| BMKI 9411 | MOTOR CONTROL I                                      |
| BMKI 9421 | MOTOR DEVELOPMENT                                    |
| BMKI 9451 | ADVANCED BIOMECHANICS                                |
| BMKI 9460 | ADVANCED BIOMECHANICS II                             |
| BMKI 9500 | MOTOR LEARNING II                                    |
| BMKI 9510 | MOTOR CONTROL II                                     |
| BMKI 9520 | MOTOR DEVELOPMENT II                                 |
| KINS 8206 | PLANNING WORKSITE WELLNESS PROGRAMS                  |
| KINS 8800 | RISK MANAGEMENT FOR HEALTH FITNESS PROFESSIONALS     |
| KINS 8910 | INTERNSHIP IN EXERCISE SCIENCE                       |
| KINS 8966 | TOPICS IN SPORTS MEDICINE                            |
| HEKI 8000 | SPECIAL STUDIES                                      |
| HEKI 8100 | RESEARCH PROJECT                                     |
| HEKI 8220 | PROBLEMS & ISSUES IN HPER                            |

|  |   |
|--|---|
| HEKI 8300  | ANALYSIS OF RESEARCH AND LITERATURE IN HUMAN MOVEMENT |
| HEKI 8500  | QUALITATIVE RESEARCH METHODS                          |
| PHHB 8450  | EPIDEMIOLOGY & PREVENTION OF DISEASE                  |
| PHHB/SOC 8706  | WOMEN'S HEALTH AND ISSUES OF DIVERSITY                |
| PHHB 8750  | PROGRAM EVALUATION AND INSTRUMENTATION                |
| PHHB 8850  | HEALTH ASPECTS OF STRESS MANAGEMENT                   |
| GEOG 8056  | GEOGRAPHIC INFORMATION SYSTEMS I                      |
| GEOG 8666  | GEOGRAPHIC INFORMATION SYSTEMS II                     |
| MATH/CSCI 8316   | PROBABILISTIC OPERATIONS RESEARCH MODELS              |
| MATH 8766  | TOPICS IN APPLIED MATHEMATICS                         |
| PA 8740  | HEALTH CARE POLICY                                    |
| PSYC 8646  | PERSONNEL PSYCHOLOGY                                  |
| PSYC 9430  | PROSEMINAR: PERSONALITY                               |
| PSYC 9440  | PROSEMINAR: SOCIAL PSYCHOLOGY                         |
| PSYC 9500  | SOCIOEMOTIONAL DEVELOPMENT                            |
| PSYC 9550  | PSYCHOSOCIAL DEVELOPMENT                              |
| SOC 8200   | HEALTH & SOCIETY                                      |
| UNMC: BIOS 823, BIOS 825, BIOS 810, EPI 821, EPI 835, EPI 845, HPRO 902, HPRO 910, HPRO 998. |   |

**Total Credits****24**

## Physiology of Exercise Concentration

| Code                               | Title  | Credits |
|------------------------------------|--|---------|
| <b>Required Courses</b>            |  |         |
| BMKI 9951                          | ADVANCED EXERCISE PHYSIOLOGY                             | 3       |
| BMKI 9960                          | ADVANCED EXERCISE PHYSIOLOGY II                          | 3       |
| BMKI 9851                          | EXERCISE FOR SPECIAL POPULATIONS                         | 3       |
| KINS 8076                          | OPTIMIZING SPORTS PERFORMANCE                            | 3       |
| KINS 8086                          | CLINICAL EXERCISE PHYSIOLOGY                             | 3       |
| <b>Electives</b>                   |  |         |
| Select 9 hours from the following: |  | 9       |
| BMKI 9131                          | IMPLEMENTING PHYSICAL ACTIVITY IN DIVERSE POPULATIONS    |         |
| BMKI 9141                          | PHYSICAL ACTIVITY ASSESSMENT AND HEALTH RELATED RESEARCH |         |
| BMKI 9300                          | SYSTEMATIC REVIEW AND META-ANALYSIS                      |         |
| BMKI 9401                          | MOTOR LEARNING I   |         |
| BMKI 9411                          | MOTOR CONTROL I  |         |
| BMKI 9421                          | MOTOR DEVELOPMENT  |         |
| BMKI 9451                          | ADVANCED BIOMECHANICS                                    |         |
| BMKI 9460                          | ADVANCED BIOMECHANICS II                                 |         |
| BMKI 9500                          | MOTOR LEARNING II  |         |
| BMKI 9510                          | MOTOR CONTROL II   |         |
| BMKI 9810                          | HIGHER EDUCATION TEACHING SEMINAR                        |         |
| BMKI 9820                          | SERVICE EXPERIENCE IN HIGHER EDUCATION                   |         |
| BIOL 8146                          | CELLULAR BIOLOGY   |         |
| BIOL/CHEM 8654                     | BIOCHEMISTRY I LABORATORY                                |         |
| BIOL/CHEM 8664                     | BIOCHEMISTRY II LABORATORY                               |         |

|           |   |
|-----------|---|
| KINS 8120 | CURRENT TOPICS IN WEIGHT MANAGEMENT                   |
| KINS 8206 | PLANNING WORKSITE WELLNESS PROGRAMS                   |
| KINS 8240 | SPORT IN AMERICAN CULTURE                             |
| KINS 8280 | CURRICULUM IN PHYSICAL EDUCATION                      |
| KINS 8506 | BEHAVIORAL ASPECTS OF COACHING                        |
| KINS 8800 | RISK MANAGEMENT FOR HEALTH FITNESS PROFESSIONALS      |
| KINS 8856 | CARDIOVASCULAR DISEASE PREVENTION AND REHABILITATION  |
| KINS 8700 | PSYCHOLOGY OF PHYSICAL ACTIVITY                       |
| KINS 8910 | INTERNSHIP IN EXERCISE SCIENCE                        |
| KINS 8966 | TOPICS IN SPORTS MEDICINE                             |
| HEKI 8000 | SPECIAL STUDIES                                       |
| HEKI 8220 | PROBLEMS & ISSUES IN HPER                             |
| HEKI 8100 | RESEARCH PROJECT                                      |
| HEKI 8300 | ANALYSIS OF RESEARCH AND LITERATURE IN HUMAN MOVEMENT |
| HEKI 8500 | QUALITATIVE RESEARCH METHODS                          |
| BIOC 827  | Metabolic Regulatory Mechanisms                       |

**Total Credits****24**

## Geography

### Degree Programs Offered

- Geography, M (p. 1094)S (p. 1094)

### Certificates Offered

- Geographic Education Certificate (p. 1097)
- Geographic Information Science Certificate (p. 1096)

## Geography, MS

The mission of the geography graduate program is to provide quality graduate education in physical geography, human geography and spatial analysis (GIS, cartography and remote sensing). The department offers a rich learning environment for students with close interaction between faculty and students, technology-enhanced instruction, and opportunities for fieldwork. Courses enhance student's perception and appreciation of the earth's human and physical environments as well as geography's essential role in both understanding and navigating our increasingly interconnected world. The department, an active participant in its community, has ties throughout the city and state, leading to a wide variety of internship opportunities. The department is committed to providing students with the essential knowledge and skills needed to succeed, be it in professional employment or further graduate education.

## Program Related Information

### Program Contact

Christina Dando, PhD, Chair  
402.554.3134  
cdando@unomaha.edu

## Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/geography/>)

### Fast Track Program

The Department of Geography/Geology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing a BA/BS in geography or BS in environmental science (geography & planning option) desiring to pursue an MS in geography.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must have a graduate faculty member in the department of Geography/Geology provide a short letter of support for their application to Fast Track as a faculty sponsor/mentor.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses
- A minimum cumulative GPA of 3.0 for graduate coursework is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived; the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

The Department of Geography/Geology offers graduate assistantships. Applications should be directed to the department and are due April 1 for the fall semester and November 1 for the spring semester. The assistantship requires 20 hours per week of teaching or similar duties. Applications received after the deadline will be considered for the next available opening.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: May 1
- Fall 2026: July 1

### Other Requirements

- Applicants must have a GPA in geography of at least a 3.0 on a 4.0 scale
- Present as a prerequisite a minimum of 15 undergraduate semester hours of geography including physical and human geography and cartography, plus at least three hours in spatial analysis, quantitative methods or statistics;
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a

baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

#### • Statement of Purpose

#### • Resume

#### • Letters of Recommendation: Two are required

## Degree Requirements

### Thesis Option

| Code  | Title                               | Credits   |
|---|-------------------------------------|-----------|
| <b>Required Courses</b>   |                                     |           |
| GEOG 8000   | HISTORY AND PHILOSOPHY OF GEOGRAPHY | 3         |
| GEOG 8700   | RESEARCH METHODS                    | 3         |
| An approved physical geography course   |                                     | 3         |
| An approved human geography course  |                                     | 3         |
| An approved techniques course   |                                     | 3         |
| <b>Electives</b>  |                                     |           |
| May be completed in consultation with the graduate program chair or an area of concentration by be selected from the options below. |                                     | 9         |
| <b>Concentrations</b>   |                                     |           |
| See Geography, MS Concentrations.   |                                     |           |
| GEOG 8990   | THESIS                              | 6         |
| <b>Total Credits</b>  |                                     | <b>30</b> |

### Non-Thesis Option

| Code  | Title                                      | Credits   |
|---|--|-----------|
| <b>Required Courses</b>   |  |           |
| GEOG 8000   | HISTORY AND PHILOSOPHY OF GEOGRAPHY        | 3         |
| GEOG 8026   | SPATIAL ANALYSIS IN GEOGRAPHY <sup>1</sup> | 3         |
| GEOG 8700   | RESEARCH METHODS                           | 3         |
| An approved physical geography course                             |  | 3         |
| An approved human geography course                                |  | 3         |
| <b>Electives</b>  |  |           |
| May be completed in consultation with the graduate program chair. |  | 15        |
| <b>Concentrations</b>   |  |           |
| See Geography, MS Concentrations.                                 |  |           |
| <b>Total Credits</b>  |  | <b>30</b> |

<sup>1</sup> GEOG 8026: or an approved graduate level statistics course from another department

### Exit Requirements

- Thesis Option- 6 hours GEOG 8990
- Non-Thesis Option - Comprehensive Examination or Professional Conference
  - As an alternative to the oral and written non-thesis exams, students pursuing the non-thesis option can instead present a paper or a poster at a professional conference. The poster or paper must be based on the student's original research. Students must create a three-person committee and defend a research proposal first. The committee must be approved by the graduate studies coordinator. Once their research is complete, their paper and



poster or Powerpoint must be reviewed and approved by their committee. Once approved, the presentation or poster must be presented to the department before the conference and the Poster/Presentation Non-Thesis Option form completed. Students must then present at the conference and write up a one-page reflection of their experience presenting, giving the form and the reflection to the graduate studies coordinator.

## Concentrations

Select an area of concentration (9 hours)

Courses offered through GEOG 8500 and GEOG 8600 will be submitted for inclusion in a concentration accompanied by a letter from the student's advisor or from the graduate program chair with the course title and specifying the concentration to which it applies.

### Human Geography Concentration

| Code               | Title   | Credits  |
|--------------------|---|----------|
| GEOG 8126          | URBAN GEOGRAPHY                               | 3        |
| GEOG 8130          | SEMINAR IN ECONOMIC GEOGRAPHY                 | 3        |
| GEOG/WGST 8156     | GEOGRAPHY, GENDER AND ENTREPRENEURSHIP        | 3        |
| GEOG 8166          | URBAN SUSTAINABILITY                          | 3        |
| GEOG 8176          | ADVANCED CULTURAL GEOGRAPHY                   | 3        |
| GEOG 8210          | SEMINAR IN CULTURAL GEOGRAPHY                 | 3        |
| GEOG 8500          | SPECIAL TOPICS IN GEOGRAPHY                   | 3        |
| GEOG 8556          | GEOGRAPHY OF THE WORLD ECONOMY                | 3        |
| GEOG 8600          | INDEPENDENT RESEARCH                          | 1-3      |
| GEOG 8650          | LAND USE                                      | 3        |
| GEOG 8800          | INTERNSHIP IN ENVIRONMENTAL/REGIONAL PLANNING | 1-6      |
| <b>Total Hours</b> |   | <b>9</b> |

### Physical/Environmental Geography Concentration

| Code                | Title                                       | Credits  |
|---------------------|---|----------|
| GEOG 8016           | CONSERVATION OF NATURAL RESOURCES           | 3        |
| GEOG/BIOG/GEOL 8106 | BIOGEOGRAPHY                                | 3        |
| GEOG 8266           | PROCESS GEOMORPHOLOGY                       | 4        |
| GEOG 8326           | CLIMATOLOGY                                 | 3        |
| GEOG 8336           | SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION | 4        |
| GEOG 8346           | WATER RESOURCES                             | 3        |
| GEOG 8356           | GLOBAL CLIMATE CHANGE                       | 3        |
| GEOG 8500           | SPECIAL TOPICS IN GEOGRAPHY                 | 3        |
| GEOG 8600           | INDEPENDENT RESEARCH                        | 1-3      |
| GEOG 8646           | CRITICAL ZONE SCIENCE                       | 4        |
| <b>Total Hours</b>  |   | <b>9</b> |

### Geographic Information Science and Technology Concentration

| Code      | Title                              | Credits |
|-----------|------------------------------------|---------|
| GEOG 8026 | SPATIAL ANALYSIS IN GEOGRAPHY      | 3       |
| GEOG 8036 | COMPUTER MAPPING AND VISUALIZATION | 3       |
| GEOG 8056 | GEOGRAPHIC INFORMATION SYSTEMS I   | 4       |
| GEOG 8500 | SPECIAL TOPICS IN GEOGRAPHY        | 3       |

|                    |   |          |
|--------------------|---|----------|
| GEOG 8535          | CARTOGRAPHY AND DATA VISUALIZATION                | 4        |
| GEOG 8600          | INDEPENDENT RESEARCH                              | 1-3      |
| GEOG 8636          | ENVIRONMENTAL REMOTE SENSING                      | 4        |
| GEOG 8640          | REMOTE SENSING ADVANCED CONCEPTS AND APPLICATIONS | 3        |
| GEOG 8666          | GEOGRAPHIC INFORMATION SYSTEMS II                 | 4        |
| GEOG 8670          | CARTOGRAPHIC METHODS                              | 3        |
| GEOG 8680          | SEMINAR IN GEOSPATIAL SCIENCE                     | 3        |
| <b>Total Hours</b> |   | <b>9</b> |

### Geospatial Database Concentration

| Code                            | Title   | Credits  |
|---------------------------------|---|----------|
| <b>Required Courses</b>         |   |          |
| GEOG 8056                       | GEOGRAPHIC INFORMATION SYSTEMS I                | 4        |
| GEOG 8666                       | GEOGRAPHIC INFORMATION SYSTEMS II               | 4        |
| <b>Required Courses in ISQA</b> |   |          |
| Fall:                           |   |          |
| ISQA 8306                       | DATABASE ADMINISTRATION                         | 3        |
| Spring:                         |   |          |
| ISQA 8410                       | DATA MANAGEMENT                                 | 3        |
| ISQA 8736                       | DECISION SUPPORT SYSTEMS                        | 3        |
| or ISQA 8525                    | GRAPHICAL USER INTERFACE DESIGN                 |          |
| Fall/Spring:                    |   |          |
| ISQA 8310                       | IT INFRASTRUCTURE & CLOUD COMPUTING             | 3        |
| Fall/Summer:                    |   |          |
| ISQA 8380                       | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION | 3        |
| <b>Total Hours</b>              |   | <b>9</b> |

## Geographic Information Science Certificate

The mission of the geography graduate program is to provide quality graduate education in physical geography, human geography and spatial analysis (GIS, cartography and remote sensing). The department offers a rich learning environment for students with close interaction between faculty and students, technology-enhanced instruction, and opportunities for fieldwork. Courses enhance student's perception and appreciation of the earth's human and physical environments as well as geography's essential role in both understanding and navigating our increasingly interconnected world. The department, an active participant in its community, has ties throughout the city and state, leading to a wide variety of internship opportunities. The department is committed to providing students with the essential knowledge and skills needed to succeed, be it in professional employment or further graduate education.

## Program Related Information

### Program Contacts

Christina Dando, PhD, Graduate Program Chair  
402.554.3134  
cdando@unomaha.edu

Rex Cammack, PhD  
402.554.2282  
rcammack@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/geography/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: May 1
- Fall 2026: July 1

### Other Requirements

- Applicants must have a GPA in geography of at least a 3.0/4.0.
- The student must demonstrate a background in geography, statistics, and computer science.
- Prerequisites would include courses in human and physical geography, statistics, and programming such as the following:

| Code      | Title                              | Credits |
|-----------|------------------------------------|---------|
| CIST 1400 | INTRODUCTION TO COMPUTER SCIENCE I | 3       |
| GEOG 1020 | INTRODUCTION TO HUMAN GEOGRAPHY    | 3       |
| MATH 1530 | ELEMENTARY STATISTICS              | 3       |

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Only required if not admitted to MS in Geography program
  - Two letters of recommendation
  - Statement of Purpose
  - Resume

## Degree Requirements

| Code                               | Title   | Credits |
|------------------------------------|---|---------|
| <b>Required Courses</b>            |   |         |
| GEOG 8535                          | CARTOGRAPHY AND DATA VISUALIZATION            | 4       |
| GEOG 8056                          | GEOGRAPHIC INFORMATION SYSTEMS I              | 4       |
| GEOG 8666                          | GEOGRAPHIC INFORMATION SYSTEMS II             | 4       |
| <b>Elective Courses</b>            |   |         |
| Select 6 hours from the following: |   | 6       |
| GEOG 8016                          | CONSERVATION OF NATURAL RESOURCES             |         |
| GEOG 8036                          | COMPUTER MAPPING AND VISUALIZATION            |         |
| GEOG 8636                          | ENVIRONMENTAL REMOTE SENSING                  |         |
| GEOG 8650                          | LAND USE                                      |         |
| GEOG 8800                          | INTERNSHIP IN ENVIRONMENTAL/REGIONAL PLANNING |         |

**Total Credits**

**18**

Students may substitute advanced courses in GIS for required courses already taken. Students will be allowed a maximum of two substitutions for these required courses. Substitution must be approved by the department GIS advisor.

## Geographic Education Certificate

The graduate certificate in geographic education is designed to assist high school instructors who teach geography and/or environmental science to obtain the 18 graduate credit hours needed to teach these subjects as dual enrollment courses. The Higher Learning Commission (HLC) requires that teachers must have at least 18 graduate credit hours in a given subject to teach classes that can be considered dual-enrollment. The graduate certificate is designed to expand high school teachers' geographic knowledge.

## Program Related Information

### Program Contacts

Christina Dando, PhD, Graduate Program Chair  
402.554.3134  
cdando@unomaha.edu

Rex Cammack, PhD  
402.554.2282  
rcammack@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/geography/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: May 1
- Fall 2026: July 1

### Other Requirements

- Applicants must have a GPA in geography of at least a 3.0 on a 4.0 scale
- Present as a prerequisite a minimum of 15 undergraduate semester hours of geography including physical and human geography and cartography, plus at least three hours in spatial analysis, quantitative methods or statistics;
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

## Degree Requirements

| Code  | Title                          | Credits      |
|---|--------------------------------|--------------|
| GEOG 8040   | SEMINAR IN EDUCATION GEOGRAPHY | 3            |
| Geography graduate level courses totaling 15-17 hours |                                |              |
| <b>Total Credits</b>                                  |                                | <b>18-20</b> |

## Gerontology

### Degree Programs Offered

- Gerontology, PhD (p. 1098)
- Gerontology, MA (p. 1098)
- Public Administration, MPA and Gerontology, MA (p. 1167)
- Gerontology Certificate (p. 1100)

## Gerontology, PhD

Our program provides interdisciplinary training, preparing students to be leaders in the field of gerontology. Due to the multidisciplinary nature of the field, our students have much flexibility as we create individualized programs tailored to each student's research and substantive interests to ensure that their training has enough breadth and depth. Our graduates acquire knowledge through various approaches including symposia, formal classes, directed studies, research projects and workshops. All students develop abilities to understand, analyze and evaluate the challenges and opportunities of an aging population. Finally, through training by our multidisciplinary faculty, students strengthen their research and writing skills to produce quality research suitable for peer-reviewed publication and presentation at national conferences.

## Program Related Information

### Program Contact

Lindsay Wilkinson, PhD, Graduate Program Chair (GPC)  
402.554.2272  
lwilkinson@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/gerontology/academics/phd-gerontology.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Fall 2026: January 15 (Priority deadline if interested in scholarship or graduate assistantship); Applications accepted through April 15

### Other Requirements

- **Entrance Exam:** GRE scores are OPTIONAL for those applying to the PhD program. All applications will be reviewed whether or not GRE scores are included.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 90, IELTS: 6.5, PTE: 64, Duolingo: 120

- **Statement of Purpose:** This should describe prior education, relevant professional experience, career goals, and the specific relationship of the PhD degree to the achievement of those goals. If there are particular faculty you are interested in working with, or areas of study that you would like to pursue please include in your statement. If you are interested in a graduate assistantship, please indicate your interest and the skills you have to assist the faculty.
- **Writing Sample:** This may be a master's or honors thesis, a published article, or any similar manuscript or paper written in a scholarly style.
- **Resume**
- **Letters of Recommendation:** Three academic letters of recommendation are required.

## Degree Requirements

| Code                           | Title  | Credits   |
|--------------------------------|--|-----------|
| <b>Required Courses</b>        |  |           |
| GERO 8800                      | GRADUATE SEMINAR IN THE AGING BRAIN <sup>1</sup> | 3         |
| or GERO 8056                   | ADVANCED BIOLOGY OF AGING                        |           |
| GERO 8500                      | POLITICS AND AGING                               | 3         |
| GERO 8730                      | DYING, DEATH & GRIEVING                          | 3         |
| GERO 9110                      | THEORIES OF AGING                                | 3         |
| GERO 9460                      | SEMINAR IN AGING AND HUMAN BEHAVIOR              | 3         |
| GERO 9020                      | GRADUATE SEMINAR IN STATISTICAL APPLICATIONS     | 3         |
| Methodology/Statistics Courses |  | 6         |
| <b>Electives</b>               |  | <b>46</b> |
| <b>Dissertation</b>            |  | <b>20</b> |
| GERO 9990                      | DISSERTATION                                     |           |
| <b>Total Credits</b>           |  | <b>90</b> |

<sup>1</sup> Students may take either GERO 8800 or 8056; both courses are not required.

<sup>2</sup> Students may begin work on the dissertation after successful completion of the comprehensive examination and admission to candidacy. The dissertation topic must be approved by the student's dissertation committee, which consists of a chair and three other members. One Committee member must be a faculty member from outside the Department of Gerontology. The dissertation topic, prospectus, and the dissertation all require the approval of the dissertation committee. A doctoral student will be required to take at least one hour of GERO 9990 Dissertation each fall and spring semester while working toward the completion of the dissertation. A minimum of 20 credit hours of GERO 9990 is required for all doctoral students.

## Comprehensive Examination and Admission to Candidacy

When all or most of the coursework is completed on the plan of study, you must pass a written comprehensive examination. Once these exams are passed the supervisory committee will submit the necessary Application for Candidacy form for approval by the Office of Graduate Studies.

## Gerontology, MA

Students pursuing the MA in gerontology are seeking a formalized and in-depth understanding of the aging process by either pursuing a thesis or non-thesis option.

## Program Related Information

### Program Contact

Lindsay Wilkinson, PhD, Graduate Program Chair (GPC)  
402.554.2272  
lwilkinson@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-public-affairs-and-community-service/gerontology/academics/>)**

### Alternative Delivery

Online courses are available for both the MA and the certificate programs.

### Dual Degree in Gerontology and Law

Prospective students must apply to both UNO and UNL.

### Fast Track Program

The Department of Gerontology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing the Bachelor of Multidisciplinary Studies desiring to pursue the MA in gerontology
- This program is available for undergraduate students pursuing any of the following:
  - BS in gerontology
  - Double-major with gerontology as either the primary or secondary major
  - BMS with a concentration in gerontology
- Students must have completed no fewer than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted to undergraduate status including financial aid
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, and the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program
  - The admit term must be after the completion term of the undergraduate degree

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Statement of Purpose:** The personal statement should be a minimum of two pages.
- Letters of Recommendation:** Two academic/professional letters of recommendation are required.

## Degree Requirements

### Thesis Option

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses</b>   |  |           |
| GERO/SOC 9110   | THEORIES OF AGING                            | 3         |
| GERO/PSYC 9460  | SEMINAR IN AGING AND HUMAN BEHAVIOR          | 3         |
| GERO 8676   | PROGRAMS AND SERVICES FOR OLDER ADULTS       | 3         |
| GERO 8020   | INTRODUCTION TO RESEARCH METHODS             | 3         |
| GERO 9020   | GRADUATE SEMINAR IN STATISTICAL APPLICATIONS | 3         |
| <b>Electives</b>  |  |           |
| Any graduate-level gerontology course can count toward the MA, as well as other courses outside the Department of Gerontology with the advice and consent of the advisor. |  | 15        |
| GERO 8990   | THESIS                                       | 6         |
| <b>Total Credits</b>  |  | <b>36</b> |

### Non-Thesis Option

| Code                    | Title                                  | Credits |
|-------------------------|--|---------|
| <b>Required Courses</b> |  |         |
| GERO/SOC 9110           | THEORIES OF AGING                      | 3       |
| GERO/PSYC 9460          | SEMINAR IN AGING AND HUMAN BEHAVIOR    | 3       |
| GERO 8676               | PROGRAMS AND SERVICES FOR OLDER ADULTS | 3       |
| GERO 8020               | INTRODUCTION TO RESEARCH METHODS       | 3       |
| GERO 8940               | GRADUATE PRACTICUM                     | 3       |
| <b>Electives</b>        |  |         |

Any graduate-level gerontology course can count toward the MA, as well as other courses outside the Department of Gerontology with the advice and consent of the advisor.

21

**Total Credits**

36

**Exit Requirements**

- Thesis Option - GERO 8990 6 hours
- Non-Thesis Option - Comprehensive Examination

## Gerontology Certificate

Students pursuing the graduate certificate in gerontology are seeking a formalized understanding of the aging process that serves to complement an existing graduate degree such as counseling, business, public administration or social work. Students also pursue the graduate certificate in gerontology to expand their knowledge beyond the undergraduate level.

## Program Related Information

### Program Contact

Lindsay Wilkinson, PhD, Graduate Program Chair (GPC)  
402.554.2272  
lwilkinson@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-public-affairs-and-community-service/gerontology/academics/>)**

### Alternative Delivery

Online courses are available for both the MA and the certificate programs.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** The personal statement should be a minimum of two pages.
- **Letters of Recommendation:** Two academic/professional letters of recommendation are required.

## Degree Requirements

| Code                    | Title                                  | Credits |
|-------------------------|--|---------|
| <b>Required Courses</b> |  |         |
| GERO 8676               | PROGRAMS AND SERVICES FOR OLDER ADULTS | 3       |
| GERO 8940               | GRADUATE PRACTICUM                     | 3       |

**Electives**

12

Select any GERO 8000- or 9000-level course in consultation with your advisor to determine which courses meet your career goals.

**Total Credits**

18

## Health and Kinesiology, MS

The School of Health and Kinesiology (H&K's) graduate program prepares students for careers in health, physical education, exercise science, athletic training, and physical activity. By fostering the development of evidence-based work, we train students to be lifelong learners who can perform leadership roles as educators, practitioners and researchers.

## Program Related Information

### Program Contact

unohk@unomaha.edu  
402.554.2670

Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/health-kinesiology/graduate/>)

### Fast Track

The School of Health and Kinesiology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing a BS in public health major desiring to pursue a MS in health & kinesiology with a public health concentration, or those pursuing a BS in kinesiology major desiring to pursue a MS in health & kinesiology with an exercise science concentration.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)



## Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 15
- Fall 2026: August 1

## Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** Please address your main areas of interest and what you plan to do with a degree in health and kinesiology. You may also address any issues with your application that you would like the admission committee to consider. Please limit your statement to one page double spaced.
- **OPTIONAL:** One letter of recommendation from a reference who can evaluate your work and/or academic achievements.

## Degree Requirements

| Code  | Title                            | Credits   |
|---|----------------------------------|-----------|
| <b>Thesis Option</b>                          |                                  |           |
| Required Courses                              |                                  |           |
| HEKI 8030                                     | RESEARCH IN HEALTH & KINESIOLOGY | 3         |
| KINS 8700                                     | PSYCHOLOGY OF PHYSICAL ACTIVITY  | 3         |
| PHHB 8360                                     | COMMUNITY HEALTH                 | 3         |
| HEKI 8990                                     | THESIS                           | 6         |
| Concentrations                                |                                  |           |
| Student must select an area of concentration. |                                  | 21        |
| <b>Total Credits</b>                          |                                  | <b>36</b> |

| Code  | Title                            | Credits   |
|---|----------------------------------|-----------|
| <b>Non-Thesis Option</b>                      |                                  |           |
| Required Courses                              |                                  |           |
| HEKI 8030                                     | RESEARCH IN HEALTH & KINESIOLOGY | 3         |
| KINS 8700                                     | PSYCHOLOGY OF PHYSICAL ACTIVITY  | 3         |
| PHHB 8360                                     | COMMUNITY HEALTH                 | 3         |
| Concentrations                                |                                  |           |
| Student must select an area of concentration. |                                  | 27        |
| <b>Total Credits</b>                          |                                  | <b>36</b> |

## Independent Study Note

The MS in health & kinesiology allows no more than 6 credits in HEKI 8000 or HEKI 8100 to be taken by students in the program to count toward their degree requirements. Anything beyond this would require approval by the graduate program committee.

## Exit Requirements

**Thesis Option:** Thesis 6 hours HEKI 8990. All candidates should carefully review the Graduate College requirements for forming the supervisory committee, and submitting the supervisory committee and Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of the thesis.

**Non-Thesis Option:** Comprehensive Examination.

## Concentrations

### Exercise Science Concentration

| Code  | Title                           | Credits      |
|---|---------------------------------|--------------|
| <b>Undergraduate deficiencies may include:</b>  |                                 |              |
| BMCH 2400   | HUMAN PHYSIOLOGY & ANATOMY I    |              |
| KINS 4940   | PHYSIOLOGY OF EXERCISE          |              |
| <b>Required Concentration Courses</b>   |                                 |              |
| KINS 8040/9041  | ADVANCED STATISTICS             | 3            |
| KINS 8950/9951  | ADVANCED EXERCISE PHYSIOLOGY    | 3            |
| BMKI 9960   | ADVANCED EXERCISE PHYSIOLOGY II | 3            |
| <b>Electives</b>  |                                 | <b>12-18</b> |
| Select from the following graduate course prefixes: PHHB, HEKI, KINS, or BMCH. (Others upon approval by advisor and GPC). |                                 |              |
| <b>Total Credits</b>  |                                 | <b>21-27</b> |

### Public Health Concentration

| Code   | Title                                 | Credits      |
|--|---------------------------------------|--------------|
| <b>Required Concentration Courses</b>  |                                       |              |
| Undergraduate deficiencies may include: an undergraduate statistics course.                                      |                                       |              |
| PHHB 8450  | EPIDEMIOLOGY & PREVENTION OF DISEASE  | 3            |
| PHHB 8500  | HEALTH PROGRAM DESIGN                 | 3            |
| PHHB 8600  | HEALTH BEHAVIOR                       | 3            |
| PHHB 8950  | PUBLIC HEALTH LEADERSHIP AND ADVOCACY | 3            |
| <b>Electives</b>   |                                       | <b>9-15</b>  |
| Select from the following graduate course prefixes: PHHB, HEKI, KINS. (Others upon approval by advisor and GPC). |                                       |              |
| <b>Total Credits</b>   |                                       | <b>21-27</b> |

### Physical Activity in Health Promotion Concentration

| Code   | Title  | Credits      |
|--|--|--------------|
| <b>Required Concentration Courses</b>  |  |              |
| KINS 8040/9041   | ADVANCED STATISTICS                                      | 3            |
| KINS 8120  | CURRENT TOPICS IN WEIGHT MANAGEMENT                      | 3            |
| KINS 8130/9131   | IMPLEMENTING PHYSICAL ACTIVITY IN DIVERSE POPULATIONS    | 3            |
| KINS 8140/9141   | PHYSICAL ACTIVITY ASSESSMENT AND HEALTH RELATED RESEARCH | 3            |
| <b>Electives</b>   |  | <b>9-15</b>  |
| Select from the following graduate course prefixes: PHHB, HEKI, KINS. (Others upon approval by advisor and GPC). |  |              |
| <b>Total Credits</b>   |  | <b>21-27</b> |

### Physical Education Concentration

| Code                                  | Title                     | Credits |
|---------------------------------------|---------------------------|---------|
| <b>Required Concentration Courses</b> |                           |         |
| KINS 8040/9041                        | ADVANCED STATISTICS       | 3       |
| PHHB 8500                             | HEALTH PROGRAM DESIGN     | 3       |
| KINS 8240                             | SPORT IN AMERICAN CULTURE | 3       |
| <b>Electives</b>                      |                           |         |

Select from the following graduate course prefixes: PHHB, HEKI, KINS. (Others upon approval by advisor and GPC).

12-18

**Total Credits****21-27**

## Healthcare Logistics and Supply Chain Management, MS

The healthcare logistics and supply chain management program prepares students to manage and recognize opportunities to improve healthcare supply chain efficiency, effectiveness, and resiliency. The program develops the skills necessary to create and lead high-performing healthcare organizations and networks while operating within the ethical and legal standards of the industry.

### Program Contact Information

John Erickson, Graduate Program Chair (GPC)  
john Erickson@unomaha.edu

### Admissions

General Application Requirements and Admission Criteria (<https://catalog.unomaha.edu/graduate/admission/>)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 15
- Fall 2026: July 15

### Other Requirements

- **English Language-Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume**
- **Unconditional Admission:** may be granted to an applicant whose record includes the following:
  - 2.85 undergraduate junior/senior GPA, or cumulative graduate GPA
  - Applicants qualifying for unconditional admission, based on the standards outlined above, but lacking some foundation courses, will be granted provisional status until all foundation courses are completed with grades of "B" (3.0/4.0) or above.
- **Provisional Admission:** Applicants who do not meet the conditions for unconditional admission may be considered for provisional admission status. These applicants will be notified that the program graduate program Committee (MGMT GPC) will evaluate the files of all applicants being considered for provisional admission. Candidates being considered for admission on this basis will receive notification from the UNO Office of Graduate Studies. If granted provisional admission, the student must earn minimum "B" (3.0/4.0) grades in each of the courses completed in the first 12 hours of the program. Students not meeting this standard are subject to dismissal.
- **Foundation Courses**
  - Applicants must have the following foundation courses completed for unconditional admission.

- 3 hours of undergraduate-level business management or public administration
- 3 hours of undergraduate-level math or statistics.

## Degree Requirements

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| <b>Core Courses</b>  |  |           |
| HLSC/BSAD 8710       | SUPPLY CHAIN MANAGEMENT                          | 3         |
| HLSC/BSAD 8066       | HEALTHCARE ANALYTICS FOR BUSINESS                | 3         |
| HSRA 873 or CPH 502  | Health Services Administration                   | 3         |
| HSRA 872 or CPH 565  | Healthcare Finance                               | 3         |
| HLSC/BSAD 8680       | SUPPLY CHAIN INTEGRATION                         | 3         |
| <b>Electives</b>     |  | <b>15</b> |
| HLSC/BSAD 8076       | INTERNATIONAL LOGISTICS MANAGEMENT               |           |
| HLSC/BSAD 8376       | SUPPLY CHAIN ANALYTICS                           |           |
| HLSC/BSAD 8176       | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT       |           |
| HLSC/BSAD 8336       | PROJECT MANAGEMENT                               |           |
| BSAD 8356            | GLOBAL SOURCING AND INNOVATION                   |           |
| HLSC/BSAD 8356       | GLOBAL SOURCING AND INNOVATION                   |           |
| HLSC/BSAD 8456       | MANAGERIAL NEGOTIATION STRATEGIES                |           |
| HLSC/BSAD 8386       | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT   |           |
| HSRA 853 or CPH 563  | Strategic Planning & Management in Public Health |           |
| HSRA 874 or CPH 566  | Health Policy                                    |           |
| HSRA 868 or CPH 568  | Global Health Systems                            |           |
| CPH 569              | Health Administration Leadership                 |           |
| HSRA 830 or CPH 580  | Health Care Organizational Theory & Behavior     |           |
| <b>Total Credits</b> |  | <b>30</b> |

### Exit Requirement

Satisfactory completion of BSAD 8680

## History

### Degree Programs Offered

- History, MA (p. 1102)
- History Certificate (p. 1104)

## History, MA

The mission of the Master of Arts in history program is to develop in students an understanding both of history itself and of history as a profession. In so doing, students will move beyond thinking of history as simply a series of events.

Since the professionalization of history in the late nineteenth century, historians have sought to explain not only what happened but why events unfolded the way they do. In subsequent years, this has led to an increasingly sophisticated volume of materials which deepen our understanding of the past. The process has also led to the formulation, and frequently the subsequent refutation, of models of interpretation.

In order to develop a proper understanding of the past, graduate students in history need to understand not only the events of the past but how historians have interpreted those events. As such the Master of Arts history program is committed to exposing our students to the events of history, the records of history, as well as to those who have sought to explain them. In so doing, our graduate will understand history at a much deeper level than when they entered the program.

## Program Related Information

### Program Contact

Martina Saltamacchia, PhD, Graduate Program Chair (GPC)  
402.554.4826  
msaltamacchia@unomaha.edu

### Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/history/academics/graduate-program/graduate-program-landing.php>) Fast Track

The Department of History has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing BA/BS in history desiring to pursue a MA in history.
- Students must have completed no less than 75 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
    - If students obtain a minimum GPA of 3.8 in the graduate courses taken within the Fast Track Program, this will be considered a plus factor for admission to the master's degree program.
  - The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 15
- Summer 2026: April 15
- Fall 2026: June 15 (February 15 for funding consideration)

## Other Requirements

- Complete 21 semester hours of undergraduate work in history, including a course on historical research, with a 3.0 grade point average (on a 4.0 scale).
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** Submit an essay of 250-500 words describing the applicant's interests in history and why he or she wishes to earn an MA degree in History
- **Writing Sample:** 10-12 pages in length from an upper-division history (or cognate) course, or an equivalent-length history-related article published in a peer-reviewed publication
- **Letters of Recommendation:** Two letters of recommendation are required.
  - Because we seek to determine your potential as a historian, letters of recommendation should be solicited primarily from historians with whom you have worked during your academic career. If you did not major in history and therefore cannot get letters from historians, then the best remaining option is to obtain letters from professors in the field in which you majored.
- The history graduate program committee may choose, in rare cases, to admit provisionally any student who does not meet all of the above requirements, with the understanding that all conditions for unconditional admission must be met before HIST 8010 or HIST 9100 courses may be taken.
- Students who have no undergraduate course in historical research and methodology must successfully complete HIST 8030 with a grade of B or better during one of the first two semesters of their enrollment.
  - Interpretation of this requirement rests with the history graduate program committee. Students who believe that they have taken a comparable course may be asked to submit examples of their work, which will enable the graduate program committee to assess their proficiency.

## Degree Requirements

### Thesis Option (36 hours)

The 36-hour thesis program includes six (6) hours of thesis credit, plus 30 credit hours in graduate coursework. This program is especially recommended for students who wish to continue work toward a PhD, but is open to any student.

Students who intend to write a thesis should bear in mind that this is a substantial undertaking and one that normally takes at least a year of focused research, background reading, writing, and revision to complete, in addition to previous coursework. An MA thesis must present original research and provide evidence of both extensive work in primary sources and engagement with the current scholarship on the subject matter in question. Students should develop some idea of a topic well before they complete their coursework and, in conjunction with the GPC, identify the department member best suited to supervise the thesis. Each faculty member of the department has complete discretion as to whether he or she will work with a particular student and whether the proposed topic is acceptable. Further discussion on thesis topics will be addressed during advising and/or new student orientation.

Students who were undergraduate students at UNO cannot take a dual-listed course at the graduate level if they have already taken the course at the undergraduate level.

| Code  | Title                           | Credits   |
|---|---------------------------------|-----------|
| <b>Required Courses</b>   |                                 |           |
| Complete at least nine hours from the following distributed between the three courses. Consult your advisor for more information. |                                 | 9         |
| HIST 8030   | GRADUATE HISTORICAL METHODOLOGY |           |
| HIST 9100   | SEMINAR IN HISTORY              |           |
| HIST 9200   | COLLOQUIUM                      |           |
| Select the remainder hours from history or other advisor approved courses. Three of these hours must be graduate only (8xx0).     |                                 | 21        |
| HIST 8990   | THESIS                          | 6         |
| <b>Total Credits</b>  |                                 | <b>36</b> |

<sup>1</sup> Students completing an MA with thesis may include no more than three hours **total** from among HIST 8010 and HIST 8020.

## Non-Thesis Option (36 hours)

The 36-hour non-thesis program consists entirely of history coursework. This program is especially recommended for students who wish to pursue work in public history, archiving, secondary-school teaching, park-service work, etc. Students will receive guidance and support regarding future career paths from their portfolio committee.

| Code  | Title                           | Credits   |
|---|---------------------------------|-----------|
| <b>Required Courses</b>   |                                 |           |
| Complete at least nine hours from the following distributed between the three courses. Consult your advisor for more information. |                                 | 9         |
| HIST 8030   | GRADUATE HISTORICAL METHODOLOGY |           |
| HIST 9100   | SEMINAR IN HISTORY              |           |
| HIST 9200   | COLLOQUIUM                      |           |
| <b>Electives</b>  |                                 |           |
| Select the remaining hours of history or other advisor approved courses. Six of these hours must be graduate only (8xx0).         |                                 | 24        |
| <b>Exit Requirement</b>   |                                 |           |
| HIST 8040   | FINAL PROJECT <sup>1</sup>      | 3         |
| <b>Total Credits</b>  |                                 | <b>36</b> |

<sup>1</sup> HIST 8040 may be repeated once for a total of 6 hours as determined by GPC.

<sup>2</sup> Students completing an MA without thesis may include no more than six hours **total** from among HIST 8010 and HIST 8020.

## Exit Requirements

### Thesis Option

#### MA Thesis Contract

Any faculty member in the Department of History who agrees to chair a MA thesis committee or who agrees to be a member of an MA thesis committee, may ask the student in question to sign a MA Thesis Contract. The basic model for such a contract will be available to students on the history graduate student Canvas page. The faculty member in question may choose to modify this basic model if they think appropriate.

All candidates should carefully review the Graduate College requirements for forming a supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of a thesis.

## Course Attendance Requirement and Withdrawal Policy

- All Department of History faculty may, at their own discretion, remove from any class any graduate student who misses three or more classes during a single semester.
- The Department of History graduate program committee may remove from the program any student who withdraws from three or more courses.

## Academic Progress

- Each candidate must complete his or her MA degree within eight (8) years of starting the program. A candidate who, owing to extenuating circumstances, is unable to meet this requirement may appeal in writing to the Graduate Program Chair (GPC) and/or the Department of History graduate committee for an extension of time. Such extensions will normally be granted only in cases of serious illness or military deployment.
- In addition to conforming to all requirements for academic progress laid down by the Office of Graduate Studies, the Department of History notes the following: pursuant to the section "Automatic Dismissal," wherein is noted "Departments/Schools may have additional and more stringent criteria for evaluating a student's performance and may demand a higher level of performance than that demanded by the Graduate College," please note:
  - The Department of History at UNO will automatically dismiss from the program any student who is awarded any grade below B- in two (or more) classes, regardless of whether or not they have complied with other requirements of satisfactory progress.

## History Certificate

UNO's Department of History offers an 18 credit hour graduate certificate in history for educators and other professionals who already have an advanced degree in another field and wish to expand their knowledge of history. This certificate is designed to help educators meet the new requirements set by the Higher Learning Commission to teach history-related courses in institutions of higher education or dual enrollment/concurrent enrollment courses in high schools. This certificate can be earned completely online.

## Program Related Information

### Program Contact

Martina Saltamacchia, PhD, Graduate Program Chair (GPC)  
402.554.4826

[msaltamacchia@unomaha.edu](mailto:msaltamacchia@unomaha.edu)

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/history/academics/graduate-program/graduate-certificate.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: November 15
- Summer 2026: April 15
- Fall 2026: July 15

## Other Requirements

- Bachelors or masters degree with an overall GPA of 3.0
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo 110
- Writing Sample:** Academic-style writing sample of approximately 5 pages in length.

## Degree Requirements

| Code  | Title  | Credits   |
|---|--|-----------|
| HIST 9200   | COLLOQUIUM (Themes in Global History since 1500) | 3         |
| HIST 9200   | COLLOQUIUM (Themes in American History)          | 3         |
| Four other HIST courses at the 8000 or 9000 level |  | 12        |
| <b>Total Credits</b>                              |  | <b>18</b> |

## Exit Requirements

Students must earn a 3.0 GPA to graduate with this certificate.

## History and Government, MA

The Master of Arts in history and government offers a broad foundation in the disciplines of history and political science. Students can earn the degree completely on-line, on-campus, or with a mix of in-person and online courses. The program offers flexible schedule opportunities to working professionals in the areas of government and education. The students can fuel their careers with a purposeful and versatile curriculum.

## Program Related Information

### Program Contact

casgradonline@unomaha.edu  
402.554.4121

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/political-science/academics/graduate-programs/history-government.php>)**

### Fast Track

The Departments of History and Political Science have developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing BA/BS in history or BA/BS in political science desiring to pursue a MA in history and government.
- Students must have completed no less than 75 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.5.

- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
    - If students obtain a minimum GPA of 3.8 in the graduate courses taken within the Fast Track Program, this will be considered a plus factor for admission to the master's degree program.
  - The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: October 15
- Summer 2026: March 15
- Fall 2026: June 15

### Other Requirements

- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Statement of Purpose:** A personal statement (1-2 pages) explaining why the applicant is seeking admission into this program, how his/her academic/professional experiences can contribute to his/her success in this program, and how this program will contribute to his/her future academic/professional ambitions.
- Writing Sample:** Academic-style writing sample of approximately 5 pages in length

## Degree Requirements

| Code   | Title                                       | Credits   |
|--|---|-----------|
| <b>History Required Seminars</b>                                       |   | <b>6</b>  |
| HIST 9200  | COLLOQUIUM (Themes in Global History)       |           |
| HIST 9200  | COLLOQUIUM (Themes in US History)           |           |
| <b>History Electives selected from any other HIST graduate courses</b> |   | <b>12</b> |
| <b>Political Science Required Seminars</b>                             |   | <b>6</b>  |
| Select two of the following:   |   |           |
| PSCI 8040  | SEMINAR IN AMERICAN GOVERNMENT AND POLITICS |           |



|  |                                    |           |
|--|------------------------------------|-----------|
| PSCI 8250  | SEMINAR IN INTERNATIONAL RELATIONS |           |
| PSCI 8300  | SEMINAR IN POLITICAL THEORY        |           |
| PSCI 8500  | SEMINAR IN COMPARATIVE POLITICS    |           |
| <b>Political Science Electives selected from any other PSCI graduate courses</b> |                                    | <b>12</b> |
| <b>Total Credits</b>   |                                    | <b>36</b> |

| Code  | Title | Credits |
|---|-------|---------|
| <b>Coursework policies:</b>   |       |         |
| No more than six hours can end in 5.  |       |         |
| Former UNO undergraduates cannot take a cross-listed graduate course that they took at the undergraduate level. |       |         |

## Exit Requirements

A portfolio of coursework will be evaluated by relevant faculty other than the instructor for said course. As the portfolio is not a course, it is graded only as pass/fail with a B being the minimum grade to pass.

# Human Centered Computing, MS

Human-Centered Computing (HCC) is the interdisciplinary practice of conceptualizing, designing, prototyping, and fielding technology-based products or services that place human needs, behaviors, and experiences at the forefront. It integrates both technological and humanistic perspectives to ensure that computing solutions are usable, accessible, and impactful. By nature, HCC brings together aspects of computer science, design, psychology, data science, and videogame design and development with a wide range of other disciplines such as health care, education, entrepreneurship, the arts, and public administration. It emphasizes a holistic and immersive approach to technology development—focusing not only on the technical feasibility of an idea but also on its human relevance and societal implications.

There is a great demand for HCC entrepreneurs and professionals locally, regionally, and nationally, and the MS in HCC program was created, in part, to prepare a workforce to meet those demands, in addition to satisfying the intellectual curiosity and honing the intellectual capacity of passionate creatives who work in and with technology.

## Program Related Information

### Program Contact

si2gpc@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/academics/it-innovation.php>)**

### Fast Track

The School of Interdisciplinary Informatics (SI2) has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

### Program Specifics:

- This program is available for undergraduate students pursuing any of the following:
  - Students pursuing a CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field
  - Students pursuing the Bachelor of Multidisciplinary Studies desiring to pursue the MS in human centered computing.
  - Students pursuing the BS in neuroscience.
- Students must have completed no less than 60 undergraduate hours and with at least 24 undergraduate credits yet to complete.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit it to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in the selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

### Other Requirements

- The minimum undergraduate grade point average (GPA) requirement for the MS in human centered computing program is 3.0 or equivalent score on a 4.0 scale. Provisional admission may be granted to applicants with a GPA of 2.7 or above (see categories of admission below). Applicants should have the equivalent of a four-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the [waiver list \(https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php\)](https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Writing Sample:** Applicants are required to submit a writing sample about an area of innovation, information technology, or design that is of specific interest to them. This should be a two page double-spaced word processed essay that showcases your unique interest in interdisciplinary ideas and applications in technology, and demonstrates your potential for success in a hands-on and self-directed the graduate program.

- **Resume:** Submit a detailed resume indicating your work experience and background.
- **Optional:** One letter of recommendation from a reference who can evaluate your work and/or academic achievements.

Non-Degree students interested in taking courses without admission to the MS in human centered computing degree program may do so with permission of the graduate program committee.

## Degree Requirements

| Code   | Title   | Credits      |
|--|---|--------------|
| <b>Core</b>  |   | <b>9</b>     |
| HCC 8000   | TECHNOLOGY & INNOVATION STUDIO<br>(repeat 3 times for a total of 9 credits) | 9            |
| <b>Electives</b>   |   | <b>15-18</b> |
| A total of 15-18 graduate-level credits from any program in the NU system that aligns with the student's area of interest. Students are encouraged to consider the following examples of acceptable electives from within the HCC program: |   |              |
| HCC 8210   | DESIGN SCIENCE AND THEORY DEVELOPMENT                                       |              |
| HCC 8220   | DESIGN PROCESS  |              |
| HCC 8006   | SPECIAL TOPICS IN IT INNOVATION   |              |
| HCC 8910   | INTERNSHIP  |              |
| HCC 8900   | INDEPENDENT STUDIES   |              |
| <b>Exit Requirement (choose one)</b>   |   | <b>3-6</b>   |
| HCC 8960   | THESIS EQUIVALENT PROJECT IN IT INNOVATION                                  | 6            |
| or   |   |              |
| HCC 8990   | THESIS  | 6            |
| or   |   |              |
| CIST 8950  | GRADUATE CAPSTONE <sup>3</sup>  | 3            |
| <b>Total Credits</b>   |   | <b>30</b>    |

<sup>1</sup> A maximum of 6 credit hours of internship may be used towards degree requirements.

<sup>2</sup> A maximum of 6 credit hours of independent study may be used towards degree requirements.

<sup>3</sup> Students choosing the capstone exit option are required to take 3 additional credits of electives to earn 30 credit hours total.

## Exit Requirements

Specific guidance and requirements for each exit requirement option are described below:

### Guidance for Thesis-Equivalent Project Exit Option

Students who choose this exit option will identify a project topic that they would like to pursue. Thesis-equivalent projects are independent (each student is responsible for their own project) and involve a substantial development component (e.g., application, website, algorithm, hardware systems) of an artifact, system, or product of interest to the student. Students are highly encouraged work with IS&T faculty members to refine their ideas and seek mentors prior to starting the project. Students who choose this exit option are required to:

1. Apply for eligibility to take HCC 8960 with a chosen faculty advisor who will serve as their supervisory committee chair. The HCC graduate committee will act as the de facto supervisory committee for the thesis equivalent project.
2. Register for 6 credits of HCC 8960 to complete the chosen project.
3. Participate in a public oral defense of their project work to their supervisory committee.

### Guidance for Thesis Exit Option

All candidates completing the thesis option should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis-Equivalent Proposal Approval forms, and final approval and submission of the thesis. Students who choose this exit option are required to:

1. Apply for eligibility to take HCC 8990 with a chosen HCC faculty advisor who will serve as their thesis committee chair.
2. Form a supervisory thesis committee composed of 2 HCC faculty and 1 outside member. All supervisory committee members will then sign the Proposed Supervisory Committee form.
3. Students will draft a written thesis proposal outlining the proposed research activities to be conducted for their thesis. The scope and contributions are to be developed with the guidance of the supervisory committee chair. This proposal is distributed to their supervisory committee members for review.
4. Present their thesis proposal in a presentation to their supervisory committee members, and feedback received from this presentation is used to guide the student to refine their proposal. Once all changes have been finalized, the supervisory committee signs the Thesis Proposal Approval form.
5. Register for 6 credits of HCC 8990 to conduct the research under the supervision of their thesis committee chair.
6. At the conclusion of the student's thesis work, they will finalize a draft of the thesis and send it to their supervisory committee for review. Students will then schedule a public thesis defense session where they will present the work done to date and answer questions from their committee about the research. The committee will then either approve the thesis outright or request changes. Once all changes have been finalized, the Report of Completion of Degree form will be signed by all committee members.

Since disciplinary norms can vary, students are strongly encouraged to work with their supervisory committee chair to make sure expectations are met.

### Guidance for Capstone Exit Option

Students who choose this exit option will enroll in CIST 8950, which is an interdisciplinary capstone course in the final semester of their program. Students who choose this option are required to take 3 credits of additional electives, subject to the requirements outlined above. Students choosing this option are highly encouraged to take HCC 8210 and HCC 8220 prior to enrolling in CIST 8950.

## Quality of Work Standards

The Graduate College's Quality of Work standards shall be applied to foundation courses as well as courses taken as part of the degree program. In particular, the GPC will recommend to the Graduate College that any

1. Student receiving a grade of "C-" or below in any foundation courses will be automatically dismissed from the program or, in the case of unclassified or non-degree students, be automatically denied admission.
2. Student receiving a grade of "C+" or "C" in any foundation course will be placed on probation or dismissed from the program.
3. Student not maintaining a "B" (3.0 on 4.0 scale) average in foundation courses will be placed on probation or dismissed from the program.

## Computing & Information Science, PhD

The PhD program in computing and information science at the University of Nebraska Omaha (UNO) is a research-intensive, multidisciplinary program focused around the core areas of computer science, management information systems and interdisciplinary informatics.

## Program Related Information

### Program Contact

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

### Program Website (<http://phd.ist.unomaha.edu/>)

### Other Program Related Information

#### Student Learning Outcomes

Upon completion of a PhD in computing and information science:

- Students will be able to interpret and synthesize research literature from multiple areas of the discipline.
- Students will be able to identify open research questions and design appropriate approaches to investigate them.
- Students will demonstrate the ability to contribute to scholarly literature.
- Students will be able to effectively engage in learning about computing and information science content.

## Admissions

Applicants with an earned undergraduate or graduate degree in a computing discipline (e.g., computer science, management information systems, bioinformatics, cybersecurity or a closely related discipline) can apply for admission to the PhD program. Applicants whose prior degrees are outside of a computing discipline are encouraged to discuss their interests with the program director prior to application.

Admission decisions are based on a holistic review of application materials by the College of IS&T's Doctoral Program Committee (DPC). During this review process the committee is looking for candidates that demonstrate:

- **Technical Interest.** Our program is a PhD in computing & information science. As such, you will be expected to demonstrate an interest and aptitude in computing that fits with the nature of our program.
- **Prior Experience with Research.** A PhD is fundamentally a research degree. Highlight your involvement in existing research projects, thesis work, and/or publications. Be specific about the roles you played in various projects in your statement of purpose and seek reference letters from those who can speak to your research experience and potential.
- **Alignment with UNO Faculty Expertise.** Alignment of your research interests with the expertise of graduate faculty in the College of IS&T is an important consideration during admissions in order to ensure successful applicants will have access to appropriate research mentors from the start of the program. Review IS&T faculty profiles on the web, identify specific research areas that interest you in your statement of purpose, and explicitly mention faculty names with whom you see a good match. Feel free to reach out via email to our faculty prior to submitting your application to discuss your interest.
- **Independence and Initiative.** A PhD is largely self-motivated and self-directed work. As such, successful PhD applicants should demonstrate a history of taking the initiative to perform beyond expectations and work independently.
- **Proficiency in written and verbal English communication.** The ability to read, comprehend and write scholarly papers is key to success as a doctoral student.

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: September 15 (Limited availability)
- Fall 2026: January 15

NOTE: All materials, including recommendation letters, transcripts, and applicable test scores, must be received by the application deadline. Applications which are incomplete after the published deadline will not be reviewed.

## Other Requirements

- **Entrance Exam:** Graduate Record Examination (GRE) scores are required for most applicants but are only one component of a holistic admission decision. Successful applicants have typically had GRE scores of 150 verbal and 160 quantitative or better. The GRE requirement may be waived for exceptional applicants subject to the GRE waiver procedures documented below.
  - The GRE may be automatically waived for applicants holding a master's degree from an accredited US institution provided that (1) the degree is in a computing discipline and (2) that the graduate GPA for that degree is 3.3 or higher.
  - A GRE waiver may also be *requested* for candidates meeting one or more of the conditions below.
    - Those who hold a bachelor's degree in a computing discipline from an accredited US institution with a GPA of 3.6 or higher.
    - Those with a minimum of 5 years of professional experience in the IT industry in the United States.
    - Those with a history of high-quality, peer-reviewed publications in a computing field who have made significant contributions to the authorship of those papers.
    - GRE waiver requests must be submitted to the DPC chair using the form located on the program website along with supporting documentation. Requests must be received at least 1 month prior to the published application deadline for the applicable term. Note that eligibility to apply for a GRE waiver does not guarantee it will be granted, and waivers will only be approved by the DPC in cases where the candidate's record permits an evaluation of their research potential without reference to GRE scores.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 90, IELTS: 7.0, PTE: 61, Duolingo: 120
- **Statement of Purpose:** A written statement (not to exceed two single-spaced pages) which addresses the following:
  - How is a PhD in computing & information science going to advance your career?
  - Why is UNO the right place for you to pursue doctoral studies?
  - In answering the questions above the statement should:
    - Describe your research interests and how they align with the work of current IS&T faculty members.
    - Describe any relevant technical knowledge/skills or professional experiences that relate to the research you hope to conduct in computing and information science.
    - Describe your prior research experiences. If you have participated in collaborative research, what was your role on those projects?
    - Lastly, if you have included optional supporting materials as part of your application, explain them.

- **Current resume or CV:** In addition to listing prior academic accomplishments and professional positions, please include complete citations for all prior authored academic publications if applicable.
- **Letters of Recommendation:** Three letters of recommendation are required. The best recommendation letters are from those who can give an in-depth evaluation of your strengths and weaknesses with respect to academic work.
  - We strongly recommend that at least one letter writer be able to speak directly about your prior research experiences.
  - Letters must be submitted directly to the application system by the letter writers. The DPC reserves the right to verify the content of recommendation letters with their authors.
- **Transcripts:** Transcripts from all higher-education institutions previously attended are required.
- **Optional Supporting Materials:** Applicants are encouraged to include a PDF portfolio of supporting materials that may provide additional evidence of research potential. This may include:
  - Copies of academic papers, publications, theses or project reports done in an academic or industrial setting
  - Documentation of technical accomplishments like a portfolio of significant software development projects
  - Documentation of certifications or other forms of micro-credentials not otherwise reflected on transcripts
  - Other materials you would like to share with the committee
  - If you are interested in applying for a doctoral fellowship, please submit a letter stating your interest in the fellowship, why you are interested, information on your research experience and knowledge, and a brief description of the type of research area you would like to explore. For more information about the fellowship, please contact the CIS doctoral program advisor.

## Admission Process and Timeline

Eligible students who request a GRE waiver must do so no later than one month prior to the published program application deadline for the term. These requests will be reviewed by the DPC, and applicants will be notified via email of the GRE waiver outcome prior to the admission deadline.

Following the admission deadline, the DPC will begin review of all complete applications. It is the applicant's responsibility to ensure all materials are available for review (including reference letters, transcripts, and others supporting materials) in the admission system by the deadline. Incomplete applications will not be considered by the committee.

Candidates identified for further consideration may be invited by the committee to take part in an interview with a small group of faculty to learn more. These interviews are usually conducted within 4-8 weeks following the application deadline. Final admission decisions are usually made within 2-3 weeks following those interviews.

## Degree Requirements

### Coursework

The PhD in computing & information science program requires 90 credit hours of graduate-level studies. The coursework taken by a student is entered into a plan of study that must be approved by the doctoral program committee before the beginning of the PhD student's second year of studies. The coursework consists of foundation courses, doctoral seminar and colloquia, a major field of study, and the dissertation. General rules applying to all plans of study include:

- Undergraduate course credits taken at UNO or another institution cannot be counted toward the PhD degree in computing & information science.

- Dual-listed undergraduate courses ending in 8xx5 cannot be counted as course credits in the PhD program.
- Only nine hours ending in 8xx6 are allowed outside the Foundation Course section of a plan of study.
- A maximum of three directed study type courses (totaling nine hours) may be counted in the plan of study, including CIST 9970, CIST 9980, masters-level independent study courses, or other equivalents.

The different categories of credit hour requirements for the program are outlined below.

### Foundation Courses 24 credit hours

Foundation courses constitute any of the courses offered in the master's degree in a computing-related field (e.g.: computer science, management information systems, cybersecurity, IT innovation).

Credit for graduate computing-related coursework in a prior degree may only be used to satisfy foundation course hours in the plan of study. A grade of B- or better is required in all coursework from a prior degree applied to foundation requirements, and thesis, thesis-equivalent project, independent study credits, or their equivalents from a prior degree may not be counted towards foundation requirements.

### Core Courses 6 credit hours

| Code      | Title                                  | Credits |
|-----------|--|---------|
| CIST 9080 | RESEARCH DIRECTIONS IN I.T.            | 3       |
| CIST 9040 | COLLOQUIUM ON IT RESEARCH              | 1       |
| CIST 9050 | COLLOQUIUM ON IT TEACHING              | 1       |
| CIST 9060 | COLLOQUIUM ON IT PROFESSION AND ETHICS | 1       |

**Total Credits** 6

### Major Field of Study 18 credit hours

Coursework in the major field of study provides students the advanced study needed to develop an in-depth knowledge of their chosen field of research.

- For students who have indicated a concentration (requirements indicated on the concentrations tab above) within their PhD in computing & information science plan of study, the major of field of study courses comprise the concentration credit hours.
- If students opt to not pursue one of the approved concentrations, they may work with their doctoral program committee to create a major field of study. If this option is pursued, these courses could include independent research (six hours maximum), and doctoral level research other than dissertation (six hours maximum), and other approved 9000 level advanced research seminars. Regardless of the major field of study, at least three courses (nine hours) must be 9000 level courses. The remaining courses could include a maximum of three hours of 8xx0 level graduate only courses, with no course ending in 6.
- Only approved concentrations are noted on a student's transcript.

### Electives 18 credit hours

- The goal of this category of courses is to provide greater flexibility to students so they can focus their research interests and engage in conducting research.
- The student in consultation with the doctoral program committee will develop a selection of electives for their plan of study.
- Courses (9xxx or 8xx0 levels) may include discipline specific research methods, statistical methods and tools, additional dissertation credits (maximum of 12 additional credits), research other than dissertation (maximum of 3 credits), advanced research seminars, and internship credit (one credit per semester and limited to three credits).

## Dissertation 24 credit hours

A PhD dissertation is a substantial piece of independent research that is required for all students pursuing a doctorate degree. It is a piece of original work that has not been published elsewhere and, most importantly, makes a new contribution to the field. In order to provide additional flexibility and emphasis on conducting research, dissertation credits can be a maximum of 36 credit hours and a minimum of 24 credit hours.

## Comprehensive Examination & Admission to Candidacy

Comprehensive exams will typically be scheduled around the middle of the fall and spring semester, as needed. Students intending to take comprehensive exams must apply to do so at least one semester prior to the term in which they plan to take the exam. Comprehensive exams may not be taken without an approved plan of study in place and the student has completed all core coursework in the plan. Typically, the comprehensive exam will be administered between the fourth and sixth semesters of study in the PhD program (not including summers).

The comprehensive exam will be a depth exam and assess the candidate's competency in the major field of study.

- Written Depth (Major Field of Study) Examination (one day)
  - When applying for the exam, students without an approved dissertation committee must name a depth examining committee. This committee shall consist of the student's faculty advisor and at least two graduate faculty members from IS&T with relevant expertise in the student's intended area of research. For students with an approved dissertation committee on file, that committee will serve in this capacity.
  - The student and their faculty advisor will prepare a personal reading list of publications aligned with the student's intended dissertation research specialization. This reading list should be finalized no later than when the student applies to take the comprehensive exam.
  - The faculty advisor, in consultation with other depth examining committee members, will prepare a minimum of two essay questions that assess the student's depth of knowledge in their individual research trajectory.
  - Responses to depth questions will be assessed by the student's depth examining committee members.
  - Students receiving a failing result on the written depth exam may not proceed to the oral examination.
- Oral Examination
  - Prior to taking the written depth exam, the student will prepare and submit a research pre-proposal about their intended dissertation focus to their depth examining committee members. Details about the structure and content of the pre-proposal can be found on the PhD in computing & information science program website.
  - Within two weeks of being notified of a passing result of the written depth comprehensive examination, the student will give a brief presentation (approximately 20 minutes) of their research pre-proposal to their depth examining committee members, followed by a question and answer period.

Faculty members assessing the different components of the exams will be responsible for communicating a strictly pass/fail result to the DPC. A student may not be asked to revise any part of their examination after submission. Should the student fail one or more parts of the comprehensive exam, they may be allowed to re-take it during the following academic term upon specific recommendation by the DPC. Students may only attempt a comprehensive exam a maximum of two times.

Upon successfully completing all three parts of the comprehensive examination and meeting the general residency requirements outlined in the

Graduate Catalog, the student will advance to candidacy and should file the necessary paperwork with graduate studies.

## Dissertation

### Dissertation Committee

Students must establish their full dissertation committee no later than the end of the semester when they complete their comprehensive examination. Makeup of the dissertation committee is subject to general Graduate College rules governing dissertation committees. For purposes of the computing and information science program, all graduate faculty members in the College of Information Science & Technology are considered internal to the student's academic program.

### Dissertation Credits

The dissertation of a PhD candidate is supervised by the chair or co-chairs of the student's dissertation committee in consultation with other members of the committee. While working on his or her dissertation, the candidate should take hours for the course CIST 9990. A minimum of 24 hours of this course is required for graduation. Dissertation course credits should be taken only after the PhD student has passed all elements of the comprehensive exam and advances to candidacy.

**IMPORTANT NOTE:** A minimum of seven months must elapse between the date of the PhD student's advancement to candidacy and the date of his or her dissertation defense.

### Dissertation Proposal

Students must formally propose their dissertation to their approved dissertation committee. A written proposal should be prepared under the guidance of the dissertation committee, and a public oral defense of the proposal should be scheduled with the committee members allowing for sufficient time to review the written document. The result of the proposal defense should be recorded on the appropriate form by the dissertation committee and submitted to DPC. To ensure timely progress in the program, the proposal milestone should be completed no later than when students have accumulated 12 hours of CIST 9900.

### Scheduling Dissertation Defense

When the dissertation committee deems it appropriate for the PhD candidate to defend their dissertation, the PhD candidate should prepare a dissertation and submit it to the dissertation committee members. While submitting the dissertation to the dissertation committee, the candidate should also submit a final oral exam form to the Office of Graduate Studies. The final oral exam form requires the signatures of the dissertation committee members and the doctoral program committee chair, and should be submitted at least four weeks before the desired date of the public dissertation defense. Dissertation committee members should sign this form after receiving the final draft of the dissertation.

**IMPORTANT NOTE:** Before scheduling the dissertation defense, the student should refer to the Office of Graduate Studies website and/or the current graduate catalog for the graduation checklist, dissertation filing deadlines and commencement dates for the semester in which they plan to graduate. Be sure to apply to graduate in MavLINK prior to the deadline.

### Teaching Requirement

PhD students are encouraged to teach at least one course in the College of IS&T at the undergraduate level as instructors of record during their PhD studies. Students typically will complete this requirement in their second or third year of studies. Further information about qualifications, timing, and funding related to teaching assignments can be found on the program website.



## Concentrations

### Artificial Intelligence Concentration

| Code                      | Title   | Credits   |
|---------------------------|---|-----------|
| <b>Required Courses *</b> |   | <b>12</b> |
| CSCI 8456                 | PRINCIPLES OF ARTIFICIAL INTELLIGENCE             |           |
| CSCI 8110                 | ADVANCED TOPICS IN ARTIFICIAL INTELLIGENCE        |           |
| ISQA 9130                 | APPLIED MULTIVARIATE ANALYSIS                     |           |
| CSCI 9810                 | RESEARCH FOUNDATIONS IN THEORETICAL COMPUTING     |           |
| <b>Electives</b>          |   | <b>6</b>  |
| CSCI 9410                 | ADVANCED TOPICS IN LOGIC PROGRAMMING              |           |
| ISQA 9120                 | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS          |           |
| CSCI 8300                 | IMAGE PROCESSING AND COMPUTER VISION              |           |
| CSCI 8360                 | MACHINE LEARNING FOR TEXT                         |           |
| CSCI 8450                 | ADVANCED TOPICS IN NATURAL LANGUAGE UNDERSTANDING |           |
| CSCI/MATH 8480            | MULTI-AGENT SYSTEMS AND GAME THEORY               |           |
| ISQA 8160                 | APPLIED DISTRIBUTION FREE STATISTICS              |           |
| ISQA 8340                 | APPLIED REGRESSION ANALYSIS                       |           |
| ISQA 8720                 | APPLIED STATISTICAL MACHINE LEARNING              |           |
| HCC 8300                  | RESEARCH FOUNDATIONS                              |           |
| MATH 8456                 | INTRODUCTION TO MACHINE LEARNING AND DATA MINING  |           |
| or STAT 8456              | INTRODUCTION TO MACHINE LEARNING AND DATA MINING  |           |
| CSCI 8476                 | PATTERN RECOGNITION                               |           |
| CSCI 8486                 | ALGORITHMS FOR ROBOTICS                           |           |
| CSCI 8590                 | FUNDAMENTALS OF DEEP LEARNING                     |           |
| BMI 8400                  | LINEAR ALGEBRA FOR ADVANCED COMPUTING AND AI      |           |
| <b>Total Credits</b>      |   | <b>18</b> |

\* Any required course completed while pursuing a master's degree may be substituted with any of the concentration electives.

### Computing Systems Concentration

| Code   | Title                                    | Credits  |
|--|--|----------|
| <b>Required Courses (select any three from the list below) *</b> |  | <b>9</b> |
| CSCI 8150  | ADVANCED COMPUTER ARCHITECTURE           |          |
| CSCI 8210  | ADVANCED COMMUNICATIONS NETWORKS         |          |
| CSCI 8530  | ADVANCED OPERATING SYSTEMS               |          |
| CYBR 9460  | SECURITY OF EMBEDDED SYSTEMS             |          |
| <b>Electives</b>   |  | <b>9</b> |
| CIST 9100  | SEMINAR ON READINGS IN IT                |          |
| CSCI 9420  | INTELLIGENT AGENT SYSTEMS                |          |
| CSCI 8160  | INTRODUCTION TO VLSI DESIGN              |          |
| CSCI 8410  | DISTRIBUTED SYSTEMS AND NETWORK SECURITY |          |
| CSCI 8390  | ADVANCED TOPICS IN DATA BASE MANAGEMENT  |          |

|   |   |           |
|---|---|-----------|
| CSCI 8430   | TRUSTED SYSTEM DESIGN, ANALYSIS AND DEVELOPMENT |           |
| CYBR 8480   | SECURE MOBILE DEVELOPMENT                       |           |
| CSCI 8610   | FAULT TOLERANT DISTRIBUTED SYSTEMS              |           |
| CSCI 8620   | MOBILE COMPUTING AND WIRELESS NETWORKS          |           |
| CYBR 8436   | QUANTUM COMPUTING AND CRYPTOGRAPHY              |           |
| CSCI 8446   | INTRODUCTION TO PARALLEL COMPUTING              |           |
| CSCI 9810   | RESEARCH FOUNDATIONS IN THEORETICAL COMPUTING   |           |
| Courses not used in concentration requirements may also satisfy concentration electives.                |   |           |
| Other courses may count as electives on a case-by-case basis with approval of the concentration faculty |   |           |
| <b>Total Credits</b>  |   | <b>18</b> |

\* Any required course completed while pursuing a master's degree may be substituted with any of the concentration electives.

### Human-Centered Computing Concentration

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>Required Courses *</b>   |   |           |
| ISQA 9030   | BEHAVIORAL AND ORGANIZATIONAL ISSUES IN INFORMATION SYSTEMS | 3         |
| CSCI 8256   | HUMAN COMPUTER INTERACTION                                  | 3         |
| CIST 9100   | SEMINAR ON READINGS IN IT (3 total hours required)          | 1         |
| <b>Electives, selected from</b>   |   | <b>9</b>  |
| CMST 8196   | COMPUTER-MEDIATED COMMUNICATION                             |           |
| CSCI/ACMP 8266  | USER EXPERIENCE DESIGN                                      |           |
| ISQA 9010   | FOUNDATIONS OF INFORMATION SYSTEMS RESEARCH                 |           |
| HCC 8300  | RESEARCH FOUNDATIONS  |           |
| HCC 8220  | DESIGN PROCESS  |           |
| HCC 9300  | SOCIAL COMPUTING AND ITS APPLICATIONS                       |           |
| SOC 8060  | QUALITATIVE METHODS <sup>1</sup>                            |           |
| Other elective courses can be considered with faculty advisor, concentration, and DPC approval. |   |           |
| <b>Total Credits</b>  |   | <b>18</b> |

<sup>1</sup> If not used as an HCC elective, SOC 8060 or ITIN 8300 can satisfy the IT PhD core requirement for a research methods course for students in the HCC concentration.

\* Any required course completed while pursuing a master's degree may be substituted with any of the concentration electives.

### IT Project Management Concentration

| Code                      | Title                                       | Credits |
|---------------------------|---|---------|
| <b>Required Courses *</b> |   |         |
| ISQA 9010                 | FOUNDATIONS OF INFORMATION SYSTEMS RESEARCH | 3       |
| ISQA 8810                 | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS | 3       |

|           |   |   |
|-----------|---|---|
| CIST 9100 | SEMINAR ON READINGS IN IT (1 cr to be taken multiple times for 3 credits total, ITPM designated section only) | 3 |
|-----------|---|---|

**Electives**

Select 9 elective hours from below, with at least one elective at 9xxx level

|           |  |   |
|-----------|--|---|
| CIST 9900 | SPECIAL TOPICS IN INFORMATION TECHNOLOGY                     | 9 |
| ISQA 9020 | TECHNICAL AND PROCESS ISSUES IN INFORMATION SYSTEMS RESEARCH |   |
| ISQA 9030 | BEHAVIORAL AND ORGANIZATIONAL ISSUES IN INFORMATION SYSTEMS  |   |
| PSYC 9070 | PROSEMINAR: COGNITIVE PSYCHOLOGY                             |   |
| PSYC 9630 | LEADERSHIP THEORIES AND RESEARCH                             |   |
| CSCI 8710 | MODERN SOFTWARE DEVELOPMENT METHODOLOGIES                    |   |
| CSCI 8790 | ADVANCED TOPICS IN SOFTWARE ENGINEERING                      |   |
| CSCI 8700 | SOFTWARE SPECIFICATIONS AND DESIGN                           |   |
| ISQA 8210 | MANAGEMENT OF SOFTWARE DEVELOPMENT                           |   |
| ISQA 8820 | PROJECT RISK MANAGEMENT                                      |   |

Other elective courses may be selected with the by approval of the student's supervisory committee

\* Any required course completed while pursuing a master's degree may be substituted with any of the concentration electives.

## Academic Performance

### Progress Report

Every doctoral student (full time or part time) and must complete an annual progress report in consultation with their faculty advisor. These forms must be submitted for review by the Doctoral Program Committee (DPC) to assess the student's progress in the program and track program level Student Learning Outcomes. Students will report on their completion of program milestones, outcomes of teaching assignments, and publications or measures of scholarly output. An electronic copy of the current form is available on the IT PhD program website.

The DPC will review progress reports and provide the student and their faculty advisor with a written assessment of progress. Any items of concern identified in this written assessment should be addressed in a timely manner by the student and their faculty advisor to ensure continued satisfactory progress in the program. If the DPC deems progress as not satisfactory, the student will be placed on probationary status and the student will be ineligible for funding as a graduate assistant. Students placed on probation must complete an additional progress report in the next semester updating DPC of their progress. After one semester on probation, a student whose performance has not improved will be recommended for dismissal by the Graduate College.

If student progress reports are not completed by the specified deadline, an advising hold will be placed on the student record and the student will be contacted and given an opportunity to submit the progress report within five days of being notified. If no progress report is received, the student's progress will be considered unsatisfactory and they may lose their funding and be counseled out of the PhD program.

An individual dismissed from the PhD may petition the DPC for permission to reapply. The petition must be sent via email to the Director of the PhD in IT doctoral program. The email should include reasons for the poor academic performance. The DPC will decide each case on an individual

basis. The petition must be received by April 1 for the fall or summer semester and by November 1 for the spring semester.

## Literacy, MS

Literacy is foundational to every part of teaching and learning. The Master of Science in literacy focuses on literacy pedagogy, as well as supporting candidates to become critically engaged teachers who are prepared to support diverse learners in all aspects of literacy learning. Candidates will engage in experiences to bridge theory to practice, while working toward professional goals as leaders in the field.

For candidates who hold a current teaching certificate, the Master of Science in literacy leads to eligibility for an added PK-12 reading specialist endorsement. During the program candidates will:

- Bridge theory, research, and practice to support PK-12 students in authentic literacy experiences;
- Support, assess, and develop interventions to help students thrive as literacy learners in PK-12 settings;
- Create classrooms that engage culturally responsive teaching practices to support diverse students;
- Critically examine various types of literature to increase students' skills and perspectives;
- Engage as literacy leaders at local and national levels;
- Develop skills to navigate and to build action research in classrooms.

### Special Notes:

- To add the endorsement to your teaching certificate, the Nebraska Department of Education requires a minimum of two years of teaching experience and successful completion of the Praxis II.
- The master's degree in literacy does not lead to initial teacher certification.

## Program Related Information

### Program Contact

unotedgraduateprograms@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/teacher-education/graduate/literacy.php>)**

### Unclassified Students

Students who are not planning to pursue a program leading to a graduate certificate or a master's degree can be admitted to the literacy program with unclassified status. Candidates holding a previous master's degree in education who are seeking additional teaching endorsements may wish to choose an unclassified status. Unclassified students are allowed to take courses for which they meet the prerequisite. Successful completion of graduate courses as an unclassified student does not obligate the department to accept those courses for credit toward the fulfillment of degree requirements. Formal advisement in an endorsement area is required. Students admitted as unclassified are not eligible for financial aid.

Formal advisement in an endorsement area is required.

- Candidates should apply for endorsements as soon as they are eligible. If a candidate applies 10 years or more after completing all coursework, a review is required to determine if more coursework is needed.
- To add an endorsement 1/3 of the coursework must be completed at UNO in the endorsement area.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 10
- Summer 2026: June 1
- Fall 2026: August 1

### Other Requirements

- A minimum undergraduate GPA of 3.0 (on a 4.0 scale).
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement to be considered for admission.
- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- Valid teaching certificate
- International students who do not expect to teach in the US **may** be eligible for admission.

The requirements displayed below are for students not pursuing a concentration.

## Degree Requirements

| Code  | Title   | Credits  |
|---|---|----------|
| TED 8050  | DATA-DRIVEN DECISION MAKING FOR EDUCATORS       | 3        |
| TED 8050 must be taken within the last nine hours of the program            |   |          |
| <b>Diversity Course</b>   |   | <b>3</b> |
| The diversity course must be completed within the first half of the program |   |          |
| TED 8130  | LANGUAGE, CULTURE, AND POWER                    |          |
| TED 8160  | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |          |
| TED 8180  | CULTURALLY RESPONSIVE TEACHING                  |          |
| TED 8210  | EQUITY AND SOCIAL JUSTICE IN EDUCATION          |          |
| TED 8280  | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |          |
| TED 8290  | TRAUMA INFORMED EDUCATION                       |          |
| TED 8800  | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH |          |
| TED 9200  | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |          |
| <b>Core Pedagogy</b>  |   |          |
| TED 9100  | THEORIES, MODELS, AND PRACTICES OF LITERACY     | 3        |
| TED 9110  | PRINCIPLES AND PRACTICES FOR TEACHING READERS   | 3        |
| <b>Additional Core Courses</b>  |   |          |
| TED 8340  | PRINCIPLES OF LINGUISTICS FOR EDUCATORS         | 3        |
| TED 8400  | ASSESSMENT AND INTERVENTIONS OF PK-12 READERS   | 3        |
| TED 8780  | FOUNDATIONAL SKILLS OF EARLY LITERACY           | 3        |

|                                      |   |   |
|--------------------------------------|---|---|
| TED 9180                             | LITERACY RESEARCH SEMINAR                                 | 3 |
| Select nine hours from the following |   | 9 |
| TED 8470                             | TEACHING THE LANGUAGE ARTS                                |   |
| TED 8610                             | TEACHING OF WRITING THROUGHOUT THE CURRICULUM             |   |
| TED 8650                             | CHILDREN'S LITERATURE AND EDUCATION                       |   |
| TED 8660                             | YOUNG ADULT LITERATURE                                    |   |
| TED 8720                             | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |   |

### Capstone

Capstone is intended to be the last course in your program. A grade of B or better must be received for program completion.

|                      |                            |           |
|----------------------|----------------------------|-----------|
| TED 9190             | LITERACY GRADUATE CAPSTONE | 3         |
| <b>Total Credits</b> |                            | <b>36</b> |

### Exit Requirements:

Capstone TED 8700 or TED 8730. The professional project completed in this course takes the place of the comprehensive exam. Registration for the course is by permission only. This course is intended to be the last course in your program. A grade of B or better must be received to show satisfactory completion of the course and for program completion.

## Concentration

### Dyslexia Concentration

| Code  | Title   | Credits  |
|---|---|----------|
| TED 8050  | DATA-DRIVEN DECISION MAKING FOR EDUCATORS       | 3.00     |
| TED 8050 must be completed within the last nine hours of the program        |   |          |
| <b>Diversity Course</b>   |   | <b>3</b> |
| The diversity course must be completed within the first half of the program |   |          |
| TED 8130  | LANGUAGE, CULTURE, AND POWER                    |          |
| TED 8160  | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |          |
| TED 8180  | CULTURALLY RESPONSIVE TEACHING                  |          |
| TED 8210  | EQUITY AND SOCIAL JUSTICE IN EDUCATION          |          |
| TED 8290  | TRAUMA INFORMED EDUCATION                       |          |
| TED 8800  | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH |          |
| TED 9200  | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |          |
| <b>Concentration Pedagogy</b>   |   |          |
| SPED 8260   | DYSLEXIA: FOUNDATIONS & SCIENCE OF READING      | 3        |
| SPED 8360   | DYSLEXIA: LANGUAGE ESSENTIALS                   | 3        |
| <b>Additional Concentration Courses</b>                                     |   |          |
| SPED 8660   | DYSLEXIA: ASSESSMENT FOR INSTRUCTIONAL PLANNING | 3        |
| SPED 8690   | DYSLEXIA: STRUCTURED LITERACY INSTRUCTION       | 3        |
| SPED 8760   | DYSLEXIA: PRACTICUM                             | 3        |
| TED 9180  | LITERACY RESEARCH SEMINAR                       | 3        |
| Select nine hours from the following  |   | 9        |
| TED 8340  | PRINCIPLES OF LINGUISTICS FOR EDUCATORS         |          |
| TED 8470  | TEACHING THE LANGUAGE ARTS                      |          |

|          |   |
|----------|---|
| TED 8610 | TEACHING OF WRITING THROUGHOUT THE CURRICULUM             |
| TED 8650 | CHILDREN'S LITERATURE AND EDUCATION                       |
| TED 8660 | YOUNG ADULT LITERATURE                                    |
| TED 8720 | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |

**Capstone**

The capstone is intended to be the last course in your program.  
A grade of B or better is required.

|          |                            |   |
|----------|----------------------------|---|
| TED 9190 | LITERACY GRADUATE CAPSTONE | 3 |
|----------|----------------------------|---|

**Total Credits** **36**

## Management Information Systems

### Degree Programs Offered

- Management Information Systems, MS (p. 1114)
- Business Administration, MBA and Management Information Systems, MS (MBA/MIS (p. 1013))
- Public Administration, MPA and Management Information Systems, MS (MPA/MIS (p. 1123))

### Certificates Offered

- Data Analytics Certificate (p. 1125)
- Data Management Certificate (p. 1126)
- Information Assurance Certificate (p. 1127)
- Project Management Certificate (p. 1129)
- Systems Analysis and Design Certificate (p. 1130)

## Management Information Systems, MS

The Master of Science in management information systems (MIS) degree is designed to give students the skills and background needed to develop and manage an organization's information resources, technology, and infrastructure with a focus on the practical application of these skills. The program prepares graduates to excel in workplaces transformed by machine learning and data analytics. It will serve as a source of added knowledge and experience for MIS graduates and practitioners interested in obtaining an advanced degree. It will also provide career growth opportunities for the non-MIS and non-business degree holders who find that their careers demand graduate level MIS education.

The MS in MIS prepares students for a variety of high-demand positions, including applications and web-site developer, computer network manager, business system analyst/manager, consultant, technology manager, as well as roles in artificial intelligence, cloud computing, and data analysis. Graduates gain competencies that can be applied in diverse industries including agriculture, healthcare, finance, banking, and retail. MS in MIS alumni have secured internships and positions at leading regional and national organizations, reflecting the program's robust industry connections and the breadth of career pathways it supports.

The MS in MIS also prepares students for admission to doctoral programs in information systems. A community advisory committee helps keep the program current with the needs of the business community. The MS in MIS program is a STEM designated program (CIP code: 11.0401)

## Program Related Information

### Program Contact

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

Prospective Student Admission: advising-cist@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-information-science-and-technology/information-systems-and-quantitative-analysis/graduate/>)**

### Fast Track

The Department of Information Systems and Quantitative Analysis has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program. Students will work with both undergraduate and graduate advisors to ensure graduate classes selected will count toward both programs, should a student wish to earn a graduate degree in a separate College of Information Science & Technology (CIST) area than their undergraduate degree.

#### Program Specifics:

- This program is available for undergraduate students pursuing any of the following:
  - Students pursuing a CIST undergraduate degree desiring to pursue an MS in either the same or a related CIST field
  - Students pursuing a Bachelor of Multidisciplinary Studies who wish to pursue the MS in MIS.
- Students must have completed no less than 60 undergraduate hours and within at least 24 undergraduate credits yet to complete.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form, obtain all signatures and submit it to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. All applicants will need to meet any other admission requirements established for the MS in selected CIST program. The application fee will be waived if the applicant contacts the Office of Graduate Studies for a fee waiver code prior to submitting the MS application.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

### International Dual Degree

The College of IS&T, in conjunction with the Management Center Innsbruck (Austria) (MCI) and the Technical University of Braunschweig (Germany) (TUB), offers a small number of interested students the opportunity to receive both the MS in MIS (UNO) degree and the MA in Management, Communications and Information Technology (MCiT) (MCI) or the Masters

in MIS (TUB) degree in a two-year, full-time equivalent period. This is implemented as an international dual degree track within the MS in MIS degree with courses that transfer in both directions. The international dual degree track, like the traditional MS in MIS program, requires the equivalent of 36 U.S. credit hours of course work beyond any foundation requirements. Students who wish to pursue this option will work closely with an advisor to develop a detailed plan of study.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

### Other Requirements

- The minimum undergraduate grade point average (GPA) requirement for the MS in MIS program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a four year undergraduate degree.
- **Entrance Exam:** Although not required, submitting GMAT or GRE scores may strengthen your application.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** Applicants are required to submit a statement of purpose (500-750 words) addressing the following. The statement must be written in the applicant's own words, reflecting their goals and aspirations. Plagiarism in the statement may result in the rejection of the entire application.
  - Motivations for pursuing graduate education
  - Relevant qualifications or work experience that demonstrate potential for success in the graduate program
  - Career goals
  - Why you want to study at UNO
- **Resume:** Submit a detailed resume indicating your work experience and background.
- **OPTIONAL:** One letter of recommendation from a reference who can evaluate your work and/or academic achievements.
- **OPTIONAL:** Application for Graduate Assistant Position

The MS in MIS program hires departmental graduate assistants (GA) after successful completion of at least a semester in the program. However, a few research positions may be available to incoming students. If you are interested in applying for one of those positions, please submit a letter stating your research area interests and why you feel you would make a good GA. Please note that GA positions will be considered after admission and program admission is not a guarantee of receiving a GA position.

Students interested in taking courses without admission to the MS in MIS degree program may do so with permission of the graduate program committee. Contact [mgreiner@unomaha.edu](mailto:mgreiner@unomaha.edu).

## Requirements

### Foundation Courses

Foundation courses ensure that all students in the MS management information systems (MIS) program have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out. Results of a test out are not appealable or repeatable.

Foundation courses cannot be used to satisfy the 36 semester hours required for the MS in MIS degree. Students who have not completed all the foundation course requirements may be admitted on provisional status until those requirements have satisfactorily been completed. **Students are required to finish foundation courses within their first 18 credit hours.**

| Code                              | Title   | Credits      |
|-----------------------------------|---|--------------|
| CIST 1600                         | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING (or equivalent)                                   | 3            |
| ISQA 3900                         | WEB APPLICATION DEVELOPMENT   | 3            |
| ISQA 8030                         | FOUNDATIONS OF INFORMATION SYSTEMS  | 3            |
| Select one of the following:      |   | 3-6          |
| ISQA 8040                         | AN OVERVIEW OF SYSTEMS DEVELOPMENT  |              |
| ISQA 4110 & ISQA 4120 & ISQA 3310 | INFORMATION SYSTEMS ANALYSIS and SYSTEM DESIGN AND IMPLEMENTATION and MANAGING THE DATABASE ENVIRONMENT |              |
| <b>Total Credits</b>              |   | <b>12-15</b> |

### Degree Requirements

Complete ISQA 8310 as early as possible in your program. Students should meet with the program's graduate advisor in order to formulate a plan of study.

Earn a total of 36 credit hours with a number 8000 or above (excluding foundation courses listed in the admissions requirements. The 36 credit hours may be earned in two ways:

- Capstone option: 18 hours core classes (6 courses) + 15 hours electives (5 courses) + 3 hours capstone (ISQA 8950)
- Thesis option: 18 hours core classes (6 courses) + 9 hours electives (3 courses) + 3 hours research methods (ISQA 8060) + 6 hours thesis (ISQA 8990)



**Capstone Option**

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses</b>   |  |           |
| ISQA 8210   | MANAGEMENT OF SOFTWARE DEVELOPMENT                   | 3         |
| ISQA 8220   | ADVANCED SYSTEMS ANALYSIS AND DESIGN                 | 3         |
| ISQA 8310   | IT INFRASTRUCTURE & CLOUD COMPUTING                  | 3         |
| ISQA 8380   | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION      | 3         |
| ISQA 8410   | DATA MANAGEMENT                                      | 3         |
| ISQA 8420   | MANAGING THE I.S. FUNCTION                           | 3         |
| <b>Electives</b>  |  |           |
| Select 15 credits from the following, with a minimum of 3 credits from ISQA electives:  |  | 15        |
| MIS Concentrations (see Concentrations)   |  |           |
| Approved electives are all graduate course offered by the College of IS&T, not counted elsewhere in the plan of study, including ISQA, BMI, CIST, CSCI, CYBR, and HCC 8xx0 and 8xx6 level courses. Graduate level courses from other departments or colleges need approval by the Graduate Program Chair. |  |           |
| ISQA 8950   | CAPSTONE MANAGEMENT INFORMATION SYSTEMS <sup>1</sup> | 3         |
| <b>Total Credits</b>  |  | <b>36</b> |

<sup>1</sup> See Exit Requirements below for additional details.

**Thesis Option**

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>  |   |           |
| ISQA 8210  | MANAGEMENT OF SOFTWARE DEVELOPMENT              | 3         |
| ISQA 8220  | ADVANCED SYSTEMS ANALYSIS AND DESIGN            | 3         |
| ISQA 8310  | IT INFRASTRUCTURE & CLOUD COMPUTING             | 3         |
| ISQA 8380  | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION | 3         |
| ISQA 8410  | DATA MANAGEMENT                                 | 3         |
| ISQA 8420  | MANAGING THE I.S. FUNCTION                      | 3         |
| <b>Research Methods</b>  |   |           |
| ISQA 8060  | RESEARCH IN MIS                                 | 3         |
| <b>Electives</b>   |   |           |
| Select 9 credits of graduate courses offered by the College of IS&T, not counted elsewhere in the plan of study, including ISQA, BMI, CIST, CSCI, CYBR, and ITIN 8xx0 and 8xx6 level courses with at minimum 3 credits from ISQA electives. Graduate level courses from other departments or colleges need approval by the Graduate Program Chair. |   | 9         |
| ISQA 8990  | THESIS (6 Hours Required) <sup>1</sup>          | 3         |
| <b>Total Credits</b>   |   | <b>36</b> |

<sup>1</sup> See Exit Requirements below for additional details.

**Exit Requirements**

Either pass ISQA 8950 or complete the thesis option (thesis plus thesis defense).

| Code      | Title                                   | Credits |
|-----------|---|---------|
| ISQA 8990 | THESIS                                  | 6       |
| or        |   |         |
| ISQA 8950 | CAPSTONE MANAGEMENT INFORMATION SYSTEMS | 3       |

**Other Requirements**

- All core classes must be complete before students may enroll in ISQA 8950.
- All candidates should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms, and final approval and submission of the thesis.
- Transfer students may request permission to transfer as many as 12 semester hours of credit on a 36-hour program provided the courses are pertinent to the student's graduate program. Submit petitions to the Graduate Program Committee for transfer credit and include a syllabus for each course to be transferred.
- ISQA 8086, ISQA 8076, and ISQA 8066 combined hours cannot exceed 9 credit hours.
- ISQA 8070, ISQA 8090, and ISQA 8080 combined hours cannot exceed 9 credit hours.
- Students have seven years to complete their MS in MIS degree. The 7-year time limit starts with the first degree-program class on the plan of study.

**Concentrations**

The ISQA faculty has developed a set of concentrations to assist students as they work to complete the MS in MIS program. Concentrations consist of a set of elective courses that are related to a particular subject area. Students may choose to take courses that make up a concentration, or not, as they see fit. Concentrations are not minors in the traditional sense, but rather reflect areas in demand in the community. If you have any questions regarding these concentrations, please contact the MS in MIS graduate advisor.

**Analytics Concentration**

Data analytics uses a variety of techniques to examine large amounts of data to discover patterns that can lead to business insights. Data analytics has broad applicability in customer behavior analysis, fraud detection, scientific inquiry, process improvement, financial analysis, trend analysis, forecasting, and decision-making. Techniques may include statistical methods, data mining, modeling and simulation, and data visualization. The analytics concentration prepares students for work in the area of analytics, and also offers the necessary methodological foundation for thesis work in a master's or PhD program.

| Code   | Title  | Credits  |
|--|--|----------|
| <b>Required Courses</b>                                      |  |          |
| Pick one ISQA course from each of the three categories below |  |          |
| <b>Data Engineering</b>                                      |  | <b>3</b> |
| ISQA 8016  | BUSINESS INTELLIGENCE                            |          |
| ISQA 8206  | INFORMATION AND DATA QUALITY MANAGEMENT          |          |
| ISQA 8450  | NOSQL AND BIG DATA TECHNOLOGIES                  |          |
| ISQA 8460  | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD |          |
| ISQA 8600  | FROM DATA TO DECISIONS                           |          |
| ISQA 8700  | DATA MINING: THEORY AND PRACTICE                 |          |
| CSCI 8350  | DATA WAREHOUSING AND DATA MINING                 |          |
| <b>Data Analytics</b>  |  | <b>3</b> |

|                |  |
|----------------|--|
| ISQA 8156      | ADVANCED STATISTICAL METHODS FOR IS&T    |
| ISQA 8340      | APPLIED REGRESSION ANALYSIS              |
| ISQA 8700      | DATA MINING: THEORY AND PRACTICE         |
| ISQA 8720      | APPLIED STATISTICAL MACHINE LEARNING     |
| ISQA 8736      | DECISION SUPPORT SYSTEMS                 |
| ISQA 8160      | APPLIED DISTRIBUTION FREE STATISTICS     |
| ISQA 9120      | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS |
| ISQA 9130      | APPLIED MULTIVARIATE ANALYSIS            |
| ECON 8310      | BUSINESS FORECASTING                     |
| CSCI/MATH 8156 | GRAPH THEORY & APPLICATIONS              |
| CSCI/MATH 8306 | DETERMINISTIC OPERATIONS RESEARCH MODELS |
| CSCI 8360      | MACHINE LEARNING FOR TEXT                |

#### Data Visualization 3

|           |                                    |
|-----------|------------------------------------|
| ISQA 8525 | GRAPHICAL USER INTERFACE DESIGN    |
| ISQA 8750 | STORYTELLING WITH DATA             |
| GEOG 8535 | CARTOGRAPHY AND DATA VISUALIZATION |

#### Electives 3

Pick one of the remaining courses from any of the three categories above <sup>1</sup>

|           |  |
|-----------|--|
| ISQA 8080 | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS <sup>2</sup>                   |
| ISQA 8086 | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS <sup>2</sup> |
| ISQA 8900 | INDEPENDENT RESEARCH IN MANAGEMENT INFORMATION SYSTEMS <sup>2</sup>      |
| ISQA 8990 | THESIS <sup>2,3</sup>  |

#### Total Credits 12

<sup>1</sup> This is not an exhaustive list. Other courses may be taken as electives with approval of the GPC.

<sup>2</sup> Topic must be related to Analytics concentration area. Prior approval from the GPC is required to use this course.

<sup>3</sup> Only three hours of the required six hours of thesis may be applied to the concentration.

## Data Management Concentration

The effective management of data and information is a fundamental task not only in the information society, but also for civilization as a whole. This concentration will prepare students to manage a growing variety of types of data throughout the data lifecycle. The curriculum gives students theoretical and practical training in database design, database administration, data quality management, knowledge management, business intelligence, data integration, and data governance. Students will gain exposure to transaction processing systems, data warehouses, and XML data stores. Students may also gain experience managing geospatial data.

| Code                                      | Title                                   | Credits |
|---|---|---------|
| <b>Required Courses</b>                   |   |         |
| ISQA 8206                                 | INFORMATION AND DATA QUALITY MANAGEMENT | 3       |
| ISQA 8306                                 | DATABASE ADMINISTRATION                 | 3       |
| ISQA 8700                                 | DATA MINING: THEORY AND PRACTICE        | 3       |
| <b>Electives</b>                          |   |         |
| Select one of the following: <sup>1</sup> |   |         |
| ISQA 8016                                 | BUSINESS INTELLIGENCE                   | 3       |

|           |  |
|-----------|--|
| ISQA 8450 | NOSQL AND BIG DATA TECHNOLOGIES  |
| ISQA 8736 | DECISION SUPPORT SYSTEMS   |
| GEOG 8535 | CARTOGRAPHY AND DATA VISUALIZATION <sup>2</sup>                          |
| GEOG 8056 | GEOGRAPHIC INFORMATION SYSTEMS I   |
| ISQA 8080 | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS <sup>3</sup>                   |
| ISQA 8086 | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS <sup>3</sup> |
| ISQA 8900 | INDEPENDENT RESEARCH IN MANAGEMENT INFORMATION SYSTEMS <sup>3</sup>      |
| ISQA 8990 | THESIS <sup>3,4</sup>  |

#### Total Credits 12

<sup>1</sup> This is not an exhaustive list. Other courses may be taken as electives with approval of the GPC.

<sup>2</sup> GEOG 8535 : (2 credit hours+2 credit hours lab)

<sup>3</sup> Topic must be related to Data Management concentration area. Prior approval from the GPC is required to use this course.

<sup>4</sup> Only three hours of the required six hours of thesis credit may be applied to the concentration.

## Information Security Management Concentration

The information security management concentration focuses on understanding security governance, risk management, privacy, and compliance and the managerial aspects of security that are priorities within an organization. Students interested in information security management are encouraged to declare a formal concentration by contacting the graduate advisor.

| Code                                      | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses</b>                   |  |           |
| ISQA 8546                                 | COMPUTER SECURITY MANAGEMENT   | 3         |
| ISQA/CYBR 8570                            | INFORMATION SECURITY POLICY AND ETHICS                                   | 3         |
| ISQA 8580                                 | SECURITY RISK MANAGEMENT AND ASSESSMENT                                  | 3         |
| <b>Electives</b>                          |  |           |
| Select one of the following: <sup>1</sup> |  |           |
| ISQA 8560                                 | INFORMATION WARFARE AND SECURITY   | 3         |
| ISQA 8080                                 | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS <sup>2</sup>                   | 3         |
| ISQA 8086                                 | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS <sup>2</sup> | 3         |
| ISQA 8900                                 | INDEPENDENT RESEARCH IN MANAGEMENT INFORMATION SYSTEMS <sup>2</sup>      | 3         |
| CYBR 8490                                 | CYBER INVESTIGATIONS   | 3         |
| CYBR 8456                                 | ETHICAL HACKING - MALWARE ANALYSIS                                       | 3         |
| CYBR 8470                                 | SECURE WEB APPLICATION DEVELOPMENT                                       | 3         |
| CYBR 8466                                 | ETHICAL HACKING - NETWORK ANALYSIS                                       | 3         |
| ISQA 8990                                 | THESIS <sup>2,3</sup>  | 3         |
| <b>Total Credits</b>                      |  | <b>12</b> |

- <sup>1</sup> This is not an exhaustive list. Other courses may be taken as electives with approval of the GPC.
- <sup>2</sup> Topic must be related to information security management concentration area. Prior approval from the GPC is required to use this course.
- <sup>3</sup> Only three hours of the required six hours of thesis credit may be applied to the concentration.

## Project Management Concentration

The project management concentration will provide students with the technical, organizational and managerial background to be effective project managers, project leaders, information technology managers, and software engineers. The curriculum in this concentration integrates project management standards developed by organizations such as IEEE (The Institute of Electrical and Electronics Engineers) and PMI (Project Management Institute) with conceptual background from disciplines such as project management, software engineering, management science, psychology, organization behavior, and organization change. Students are to start coursework in the project management concentration after completion of at least 9 hours of the core courses, including ISQA 8210.

| Code                                      | Title  | Credits   |
|---|--|-----------|
| <b>Required Courses</b>                   |  |           |
| ISQA 8810                                 | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS                              | 3         |
| ISQA 8820                                 | PROJECT RISK MANAGEMENT  | 3         |
| <b>Electives</b>                          |  |           |
| Select two of the following: <sup>1</sup> |  | 6         |
| ISQA/CYBR 8570                            | INFORMATION SECURITY POLICY AND ETHICS                                   |           |
| ISQA 8196                                 | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY                        |           |
| ISQA 8080                                 | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS <sup>2</sup>                   |           |
| ISQA 8086                                 | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS <sup>2</sup> |           |
| ISQA 8900                                 | INDEPENDENT RESEARCH IN MANAGEMENT INFORMATION SYSTEMS <sup>2</sup>      |           |
| ISQA 8990                                 | THESIS <sup>2,3</sup>  |           |
| <b>Total Credits</b>                      |  | <b>12</b> |

- <sup>1</sup> This is not an exhaustive list. Other courses may be taken as electives with approval of the GPC.
- <sup>2</sup> Topic must be related to project management concentration area. Prior approval from the GPC is required to use this course.
- <sup>3</sup> Only three hours of the required six hours of thesis credit may be applied to the concentration.

## Quality of Work Standards

The Graduate College's Quality of Work standards shall be applied to foundation courses as well as courses taken as part of the degree program. In particular, the Graduate Program Chair (GPC) will recommend to the Graduate College that any

1. Student receiving a grade of "C-" or below in any foundation courses will be automatically dismissed from the program or, in the case of non-degree students, be automatically denied admission.
2. Student receiving a grade of "C+" or "C" in any foundation course will be placed on probation or dismissed from the program.
3. Student not maintaining a "B" (3.0 on 4.0 scale) average in foundation courses will be placed on probation or dismissed from the program.

Students who have been dismissed from a MIS graduate program may request reinstatement by following the process outlined below:

**Step 1:** Students must submit a written petition for reinstatement to the GPC. The petition needs to include a 1–2 paragraph letter explaining the circumstances that led to the student's academic difficulties, the specific challenges they faced during the semester, and their plan for improvement to ensure these issues do not recur.

**Step 2:** The petition will be shared with the graduate program committee. The committee will review the petition and decide the student's eligibility for reinstatement.

**Step 3:** If reinstated, the student will be placed on probation for the following semester of enrollment. The graduate program committee will determine the conditions of this probation. Please note that students who are on probation cannot hold a graduate assistantship or internship and are ineligible for an independent study.

Students are encouraged to take proactive steps to address any challenges that may impact their academic success. For any questions about this process, please contact the GPC.

## Business Administration, MBA and Management Information Systems, MS (MBA/MIS)

In today's context of globally integrated and interdependent businesses, ubiquitous information technologies, and a mobile workforce, it is critical that graduate education provides students opportunities to develop integrated business and technology skills. The primary purpose of this dual degree program is to provide this integration by enabling students to complete the MBA and MS in MIS degrees simultaneously. This track is designed for dedicated students who are willing to take on the challenges related to graduate education from two perspectives—business administration and management information systems. As such, this program involves intensive preparation in both business administration and information systems and a specialization in an area that combines both backgrounds. The dual degree program requires a minimum of 55 hours of course work beyond foundation requirements. Students who wish to pursue this option must work closely with an adviser to develop an integrated plan of study at an early stage. Students who complete the dual degree program will receive two degrees, two diplomas, and will have both degrees recorded on their transcript.

## Program Related Information

### Program Contacts (Business Administration)

402.554.2448  
mba@unomaha.edu

### (Management Information Systems)

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

## Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/information-systems-and-quantitative-analysis/graduate/Dual-Degree-MS-MIS-MBA.php>)

### Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Summer 2026: April 1 (Limited availability for international applicants)
- Fall 2026: July 1 (June 1 for international applicants)

### Other Requirements

- All applicants must have earned a minimum junior/senior GPA of 3.0 for both the MBA and the MS in MIS programs.
- **Entrance Exam:** Submitting GMAT or GRE scores [may strengthen your application](#).
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** Applicants are required to submit a statement of purpose (500-750 words) addressing the following. The statement must be written in the applicant's own words, reflecting their goals and aspirations. Plagiarism in the statement may result in the rejection of the entire application.
  - Why you want to study at UNO
  - Career goals
  - Relevant qualifications or work experience that demonstrate potential for success in the graduate program
  - Motivations for pursuing graduate education
- **Resume:** Include work experience and education
- **OPTIONAL:** One letter of recommendation from a reference who can evaluate your work and/or academic achievements.
- **Interview:** optional
  - Although not required, applicants are strongly encouraged to arrange for an interview with one or more members of the graduate program committees of the MBA and MIS programs by directly contacting the committee chairperson of the College of IS&T. Telephone interviews are highly recommended for applicants outside the local area.
- Students qualifying for admission based on the standard outlined above, but lacking some foundation courses, will be granted provisional status until all foundation courses are completed with grades of "B" (3.0 on a 4.0 scale) or better.

## Degree Requirements

### MBA Foundation Courses

| Code                         | Title                                 | Credits |
|------------------------------|---------------------------------------|---------|
| Accounting                   |                                       |         |
| Select one of the following: |                                       | 3-6     |
| BSAD 8110                    | ACCOUNTING AND FINANCIAL FUNDAMENTALS |         |

|   |   |     |
|---|---|-----|
| ACCT 2010 & ACCT 2020   | PRINCIPLES OF ACCOUNTING I and PRINCIPLES OF ACCOUNTING II          |     |
| Or one year of Principles of Accounting at the undergraduate level  |   |     |
| Economics   |   |     |
| Select one of the following:  |   | 3-6 |
| ECON 1200   | SURVEY OF ECONOMICS   |     |
| ECON 2200 & ECON 2220   | PRINCIPLES OF ECONOMICS (MICRO) and PRINCIPLES OF ECONOMICS (MACRO) |     |
| Or Micro- and Macro-Economics at the undergraduate level  |   |     |
| College Algebra   |   |     |
| College Algebra or higher with the following courses at UNO:  |   |     |
| MATH 1220   | COLLEGE ALGEBRA   | 3   |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT  |     |
| or MATH 1320  | COLLEGE ALGEBRA   |     |
| English Composition   |   |     |
| A required course for all international students entering the MBA program who are required to take the TOEFL: |   |     |
| ENGL 1150   | ENGLISH COMPOSITION I   | 3   |

### MS in MIS Foundation Courses

Foundation courses ensure that all students have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out. [Results of a test out are not appealable or repeatable](#).

Foundation courses cannot be used to satisfy the hours required for the dual degree. Students who have not completed all the foundation course requirements may be admitted on provisional status until those requirements have satisfactorily been completed. All must be completed prior to or concurrent with the first six hours of MS in MIS graduate course work.

| Code  | Title   | Credits |
|---|---|---------|
| Six (6) hours of programming coursework or equivalent experience: |   |         |
| CIST 1600   | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING | 3       |
| Or equivalent   |   |         |
| ISQA 3900   | WEB APPLICATION DEVELOPMENT                           | 3       |
| Select one of the following:                                      |   |         |
| ISQA 8030   | FOUNDATIONS OF INFORMATION SYSTEMS                    | 3       |
| Or equivalent   |   |         |
| Select one of the following:                                      |   | 3-6     |

|                                   |   |
|-----------------------------------|---|
| ISQA 8040                         | AN OVERVIEW OF SYSTEMS DEVELOPMENT  |
| ISQA 4110 & ISQA 4120 & ISQA 3310 | INFORMATION SYSTEMS ANALYSIS and SYSTEM DESIGN AND IMPLEMENTATION and MANAGING THE DATABASE ENVIRONMENT |
| Or equivalent                     |   |

## Joint Foundation Course

| Code  | Title                                       | Credits |
|---|---|---------|
| Statistics can be satisfied by either one of the following or one semester of undergraduate statistics: |   | 3       |
| BSAD 2130   | PRINCIPLES OF BUSINESS STATISTICS           |         |
| CIST 2500   | INTRODUCTION TO APPLIED STATISTICS FOR IS&T |         |

## MBA/MIS Required Courses (38 hours)

### MBA Program (20 hours)

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| BSAD 8000            | BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY                       | 2         |
| BSAD 8060            | PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP <sup>1</sup>                 | 2         |
| BSAD 8150            | ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS                             | 2         |
| BSAD 8210            | ACCOUNTING: DECISIONS & CONSEQUENCES                                   | 2         |
| BSAD 8250            | ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES | 2         |
| BSAD 8420            | MARKETING: UNDERSTANDING CONSUMERS AND MARKETS                         | 2         |
| BSAD 8630            | FINANCE: UNDERSTANDING CAPITAL AND CASH <sup>2</sup>                   | 2         |
| BSAD 8700            | BUSINESS ANALYTICS: MAKING SENSE OF DATA                               | 2         |
| BSAD 8720            | STRATEGIC FINANCIAL MANAGEMENT <sup>3</sup>                            | 2         |
| BSAD 8830            | STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE <sup>4</sup>    | 2         |
| <b>Total Credits</b> |  | <b>20</b> |

<sup>1</sup> BSAD 8060: this is the first graduate-level course MBA students are to complete

<sup>2</sup> BSAD 8630 (prereq: completion of BSAD 8150 and BSAD 8210)

<sup>3</sup> BSAD 8720 (prereq: completion of BSAD 8630)

<sup>4</sup> BSAD 8830 (prereq: BSAD 8150 and BSAD 8210)

### MS in MIS Program (18 hours)

| Code      | Title   | Credits |
|-----------|---|---------|
| ISQA 8210 | MANAGEMENT OF SOFTWARE DEVELOPMENT              | 3       |
| ISQA 8220 | ADVANCED SYSTEMS ANALYSIS AND DESIGN            | 3       |
| ISQA 8310 | IT INFRASTRUCTURE & CLOUD COMPUTING             | 3       |
| ISQA 8380 | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION | 3       |
| ISQA 8410 | DATA MANAGEMENT                                 | 3       |

|                      |                            |           |
|----------------------|----------------------------|-----------|
| ISQA 8420            | MANAGING THE I.S. FUNCTION | 3         |
| <b>Total Credits</b> |                            | <b>18</b> |

## MBA Directed Elective Requirements

For students who have earned an undergraduate or graduate degrees in accounting, economics, management, or marketing, the core course(s) corresponding to the student's previously earned degree(s) will be waived. To satisfy degree requirements, the student must complete a directed elective in the waived field as indicated. For students who have earned an undergraduate or graduate degree in finance, the core course(s) corresponding to the student's previously earned degree may be waived upon request. Students with more than one core course waiver will be required to take an additional 1-credit hour seminar or 3-credit hour elective to fulfill degree requirements.

| Code                                 | Title   | Credits |
|--------------------------------------|---|---------|
| <b>Accounting Directed Electives</b> |   |         |
| ACCT 8016                            | ADVANCED FINANCIAL ACCOUNTING                       | 3       |
| ACCT 8046                            | ADVANCED FEDERAL INCOME TAXATION                    | 3       |
| ACCT 8050                            | FINANCIAL STATEMENT ANALYSIS                        | 3       |
| ACCT 8066                            | ADVANCED MANAGERIAL ACCOUNTING                      | 3       |
| ACCT 8076                            | GOVERNMENTAL/NONPROFIT ACCOUNTING AND AUDITING      | 3       |
| ACCT 8080                            | CURRENT TECHNOLOGY USE IN ACCOUNTING                | 3       |
| ACCT 8090                            | INFORMATION SYSTEMS AUDITING                        | 3       |
| ACCT 8210                            | FINANCIAL ACCOUNTING THEORY                         | 3       |
| ACCT 8220                            | GRADUATE TOPICS IN INCOME TAXATION                  | 3       |
| ACCT 8230                            | MANAGEMENT ACCOUNTING ISSUES                        | 3       |
| ACCT 8250                            | SEMINAR IN ACCOUNTING                               | 3       |
| ACCT 8260                            | FEDERAL TAX RESEARCH AND PLANNING                   | 3       |
| ACCT 8280                            | SEMINAR IN ACCOUNTING INFORMATION SYSTEMS           | 3       |
| ACCT 8290                            | ADVANCED FINANCIAL AUDITING                         | 3       |
| <b>Economics Directed Electives</b>  |   |         |
| ECON 8010                            | SEMINAR IN PUBLIC FINANCE                           | 3       |
| ECON 8080                            | MONEY AND FINANCIAL INSTITUTIONS                    | 3       |
| ECON 8200                            | SEMINAR IN MICRO ECONOMIC THEORY                    | 3       |
| ECON 8216                            | INDUSTRIAL ORGANIZATION                             | 3       |
| ECON 8220                            | SEMINAR IN MACRO THEORY                             | 3       |
| ECON 8230                            | BUSINESS CONDITIONS ANALYSIS                        | 3       |
| ECON 8290                            | RESEARCH METHODS IN ECONOMICS AND BUSINESS          | 3       |
| ECON 8300                            | ECONOMETRICS  | 3       |
| ECON 8306                            | QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS | 3       |
| ECON 8310/BSAD 8080                  | BUSINESS FORECASTING                                | 3       |
| ECON 8316                            | BUSINESS INTELLIGENCE AND REPORTING                 | 3       |
| ECON 8320                            | TOOLS FOR DATA ANALYSIS                             | 3       |
| ECON 8326                            | NATURAL RESOURCE ECONOMICS                          | 3       |
| ECON 8330                            | DATA ANALYSIS FROM SCRATCH                          | 3       |
| ECON 8336                            | ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY       | 3       |
| ECON 8346                            | ECONOMICS OF TECHNOLOGY                             | 3       |



|   |   |   |
|---|---|---|
| ECON 8576                                     | ECONOMIC CONDITIONS ANALYSIS                      | 3 |
| ECON 8616                                     | INTERNATIONAL TRADE                               | 3 |
| ECON 8666                                     | INTERNATIONAL ECONOMIC DEVELOPMENT                | 3 |
| ECON/BSAD 8736                                | ECONOMICS OF ENTREPRENEURSHIP                     | 3 |
| ECON 8856                                     | ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT       | 3 |
| <b>Finance Directed Electives</b>             |   |   |
| BSAD 8516                                     | SECURITY ANALYSIS & INVESTING                     | 3 |
| BSAD 8520                                     | SEMINAR INVESTMENT MANAGEMENT                     | 3 |
| BSAD 8530                                     | BANK & FINANCIAL MARKETS                          | 3 |
| BSAD 8540                                     | MULTINATIONAL FINANCIAL MANAGEMENT                | 3 |
| BSAD 8550                                     | SEMINAR IN FINANCE                                | 3 |
| BSAD 8576                                     | INVESTMENT MANAGEMENT FOR FINANCIAL ANALYSTS      | 3 |
| BSAD 8596                                     | INSURANCE PLANNING                                | 3 |
| BSAD 8600                                     | REAL ESTATE FINANCE THEORY AND APPLICATIONS       | 3 |
| BSAD 8606                                     | FINANCIAL RISK MANAGEMENT                         | 3 |
| BSAD 8610                                     | REAL ESTATE APPRAISAL                             | 3 |
| BSAD 8616                                     | REAL ESTATE INVESTMENTS                           | 3 |
| HSRA 872                                      | Health Care Finance                               | 3 |
| <b>Information Systems Directed Electives</b> |   |   |
| ISQA 8016                                     | BUSINESS INTELLIGENCE                             | 3 |
| ISQA 8106                                     | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION | 3 |
| ISQA 8156                                     | ADVANCED STATISTICAL METHODS FOR IS&T             | 3 |
| ISQA 8180                                     | ELECTRONIC COMMERCE                               | 3 |
| ISQA 8196                                     | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY | 3 |
| ISQA 8206                                     | INFORMATION AND DATA QUALITY MANAGEMENT           | 3 |
| ISQA 8210                                     | MANAGEMENT OF SOFTWARE DEVELOPMENT                | 3 |
| ISQA 8220                                     | ADVANCED SYSTEMS ANALYSIS AND DESIGN              | 3 |
| ISQA 8306                                     | DATABASE ADMINISTRATION                           | 3 |
| ISQA 8310                                     | IT INFRASTRUCTURE & CLOUD COMPUTING               | 3 |
| ISQA 8340                                     | APPLIED REGRESSION ANALYSIS                       | 3 |
| ISQA 8410                                     | DATA MANAGEMENT                                   | 3 |
| ISQA 8420                                     | MANAGING THE I.S. FUNCTION                        | 3 |
| ISQA 8525                                     | GRAPHICAL USER INTERFACE DESIGN                   | 3 |
| ISQA 8546                                     | COMPUTER SECURITY MANAGEMENT                      | 3 |
| ISQA 8560                                     | INFORMATION WARFARE AND SECURITY                  | 3 |
| ISQA 8570                                     | INFORMATION SECURITY POLICY AND ETHICS            | 3 |
| or CYBR 8570                                  | INFORMATION SECURITY POLICY AND ETHICS            |   |
| ISQA 8580                                     | SECURITY RISK MANAGEMENT AND ASSESSMENT           | 3 |
| ISQA 8700                                     | DATA MINING: THEORY AND PRACTICE                  | 3 |
| ISQA 8736                                     | DECISION SUPPORT SYSTEMS                          | 3 |
| ISQA 8810                                     | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS       | 3 |
| ISQA 8820                                     | PROJECT RISK MANAGEMENT                           | 3 |

|                                      |  |   |
|--------------------------------------|--|---|
| ISQA 9120                            | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS   | 3 |
| <b>Management Directed Electives</b> |  |   |
| BSAD 8096                            | MANAGING COLLABORATIVE ENGAGEMENT  | 3 |
| BSAD 8136                            | HUMAN RESOURCE MANAGEMENT  | 3 |
| BSAD 8146                            | TOTAL REWARDS  | 3 |
| BSAD 8156                            | TALENT DEVELOPMENT   | 3 |
| BSAD 8166                            | STAFFING THE ORGANIZATION  | 3 |
| BSAD 8176                            | EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT   | 3 |
| BSAD 8300                            | ORGANIZATION THEORY & DESIGN   | 3 |
| BSAD 8326                            | SALES MANAGEMENT   | 3 |
| BSAD 8336                            | PROJECT MANAGEMENT   | 3 |
| BSAD 8340                            | INTERNATIONAL BUSINESS STUDY ABROAD  | 3 |
| BSAD 8356                            | GLOBAL SOURCING AND INNOVATION   | 3 |
| BSAD 8376                            | SUPPLY CHAIN ANALYTICS   | 3 |
| BSAD 8386                            | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT   | 3 |
| BSAD 8456                            | MANAGERIAL NEGOTIATION STRATEGIES  | 3 |
| BSAD 8710                            | SUPPLY CHAIN MANAGEMENT  | 3 |
| BSAD 8726                            | INNOVATION VENTURES  | 3 |
| CACT 8520                            | POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP  | 3 |
| CMST 8186                            | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS   | 3 |
| PSYC 8636                            | ORGANIZATIONAL PSYCHOLOGY  | 3 |
| PSYC 8646                            | PERSONNEL PSYCHOLOGY   | 3 |
| PSYC 9620                            | TRAINING AND DEVELOPMENT   | 3 |
| PSYC 9630                            | LEADERSHIP THEORIES AND RESEARCH   | 3 |
| PSYC 9660                            | CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL (CPH 840:: Health Administration Leadership) | 3 |
| CPH 840                              | Health Administration Leadership   |   |
| <b>Marketing Directed Electives</b>  |  |   |
| BSAD 8206                            | CONSULTATIVE SELLING PRINCIPLES  | 3 |
| BSAD 8216                            | SELLING FINANCIAL SERVICES   | 3 |
| BSAD 8326                            | SALES MANAGEMENT   | 3 |
| BSAD 8345                            | CONSUMER BEHAVIOR  | 3 |
| BSAD 8386                            | INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT   | 3 |
| BSAD 8426                            | BUSINESS DEMOGRAPHICS  | 3 |
| BSAD 8430                            | STRATEGIC BRAND MANAGEMENT   | 3 |
| BSAD 8435                            | MARKETING INNOVATION   | 3 |
| BSAD 8450                            | SEMINAR IN MARKETING   | 3 |
| BSAD 8710                            | SUPPLY CHAIN MANAGEMENT  | 3 |
| BSAD 8726                            | INNOVATION VENTURES  | 3 |
| BSAD 8766                            | SELLING IN AN ENTREPRENEURIAL CONTEXT  | 3 |

## MBA/MIS Electives

12 hours from one of the areas of focus listed below

Students must take a minimum of three credit hours of the ISQA 8000-level elective courses and a minimum of three credit hours of the BSAD or ECON 8000-level elective courses

Students may enroll in a maximum of six credit hours of dual-level (8–6) elective courses

Students may pursue an alternate area of focus with the approval of the graduate program committee

### Technology Entrepreneurship Focus

| Code                    | Title                                  | Credits |
|-------------------------|--|---------|
| BSAD 8080/<br>ECON 8310 | BUSINESS FORECASTING                   | 3       |
| ECON 8346               | ECONOMICS OF TECHNOLOGY                | 3       |
| ECON/BSAD 8736          | ECONOMICS OF ENTREPRENEURSHIP          | 3       |
| ISQA 8180               | ELECTRONIC COMMERCE                    | 3       |
| ISQA/CYBR 8570          | INFORMATION SECURITY POLICY AND ETHICS | 3       |

### Business Process Transformation Focus

| Code           | Title   | Credits |
|----------------|---|---------|
| BSAD 8300      | ORGANIZATION THEORY & DESIGN                      | 3       |
| ECON 8346      | ECONOMICS OF TECHNOLOGY                           | 3       |
| ISQA 8196      | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY | 3       |
| ISQA 8736      | DECISION SUPPORT SYSTEMS                          | 3       |
| ISQA/CYBR 8570 | INFORMATION SECURITY POLICY AND ETHICS            | 3       |
| ISQA 8810      | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS       | 3       |
| ISQA 8820      | PROJECT RISK MANAGEMENT                           | 3       |
| ISQA 8460      | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD  | 3       |

### Applied Quantitative Techniques Focus

| Code                         | Title                                 | Credits |
|------------------------------|---------------------------------------|---------|
| ISQA 8156                    | ADVANCED STATISTICAL METHODS FOR IS&T | 3       |
| ECON 8320                    | TOOLS FOR DATA ANALYSIS               | 3       |
| Select two of the following: |                                       | 6       |
| ECON 8300                    | ECONOMETRICS                          |         |
| ECON 8310/<br>BSAD 8080      | BUSINESS FORECASTING                  |         |
| ECON 8316                    | BUSINESS INTELLIGENCE AND REPORTING   |         |
| ECON 8330                    | DATA ANALYSIS FROM SCRATCH            |         |
| ISQA 8160                    | APPLIED DISTRIBUTION FREE STATISTICS  |         |
| ISQA 8340                    | APPLIED REGRESSION ANALYSIS           |         |
| ISQA 8720                    | APPLIED STATISTICAL MACHINE LEARNING  |         |
| ISQA 8736                    | DECISION SUPPORT SYSTEMS              |         |
| ISQA 8750                    | STORYTELLING WITH DATA                |         |

### Health Care Information Systems Focus

| Code                       | Title   | Credits |
|----------------------------|---|---------|
| BMI 8100                   | INTRODUCTION TO BIOMEDICAL INFORMATICS            | 3       |
| BMI 8850                   | BIOMEDICINE FOR THE NONMEDICAL PROFESSIONAL       | 3       |
| Pick one of the following: |   | 3       |
| ISQA 8196                  | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY |         |
| ISQA 8206                  | INFORMATION AND DATA QUALITY MANAGEMENT           |         |

|           |   |
|-----------|---|
| ISQA 8525 | GRAPHICAL USER INTERFACE DESIGN             |
| ISQA 8700 | DATA MINING: THEORY AND PRACTICE            |
| ISQA 8810 | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS |
| ISQA 8750 | STORYTELLING WITH DATA                      |

### MBA/MIS Exit Requirements

#### Capstone Courses (5 hours)

**BSAD 8800 - MBA Project-Focused Capstone.** As the project-focused capstone course for the Master of Business Administration (MBA) degree, this course will focus on students completing a service-learning consulting project for a non-profit or other organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite:** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 before taking the Capstone course. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Permission from MBA advisor is required to register for this class.

OR

**ECON 8330 - Data Analysis from Scratch.** This course may be substituted for BSAD 8800 as the Capstone requirement for MBA students. Students in the course will work on a service-learning consulting project, specifically focused on a client data project. The consulting project will focus on the application of knowledge and skills learned in the MBA program and the Business Analytics concentration. A minimum B (3.0 on 4.0 scale) grade required to complete the course successfully and qualify for graduation. **Prerequisite(s)/Corequisite(s):** A multivariate or regression analysis course such as ECON 8300 (<https://catalog.unomaha.edu/search/?P=ECON%208300>), ISQA 9130 (<https://catalog.unomaha.edu/search/?P=ISQA%209130>) or STAT 8436 (<https://catalog.unomaha.edu/search/?P=STAT%208436>), and a programming class such as ECON 8320 (<https://catalog.unomaha.edu/search/?P=ECON%208320>) or equivalent programming experience; or instructor approval. Students also must successfully complete BSAD 8630 (<https://catalog.unomaha.edu/search/?P=BSAD%208630>), BSAD 8420 (<https://catalog.unomaha.edu/search/?P=BSAD%208420>), and BSAD 8830 (<https://catalog.unomaha.edu/search/?P=BSAD%208830>) before taking this course for the Capstone requirement. Students must also complete this course in the final semester or within the last nine (9) hours of their MBA program.

**ISQA 8950 MIS Capstone** (3 credits) (taken within the last 6 hours or the final semester of the program, with all core courses completed).

| Code         | Title                                   | Credits |
|--------------|---|---------|
| BSAD 8800    | MBA PROJECT-FOCUSED CAPSTONE            | 2-3     |
| or ECON 8330 | DATA ANALYSIS FROM SCRATCH              |         |
| ISQA 8950    | CAPSTONE MANAGEMENT INFORMATION SYSTEMS | 3       |

### Thesis Option

To take this option, a student will be required to enroll in six (6) hours of thesis credit:

#### MBA Program

| Code      | Title  | Credits |
|-----------|--------|---------|
| BSAD 8990 | THESIS | 1-6     |

#### MS-MIS Program

| Code      | Title  | Credits |
|-----------|--------|---------|
| ISQA 8990 | THESIS | 3       |

The thesis must be in an area that relates to both the business administration and information systems domains. The Supervisory

Committee must include at least one CBA faculty member and one ISQA faculty member.

## Other Requirements to Complete the Program

All MBA students must attend MBA Orientation in their first semester in the MBA program as part of their degree requirements. All MBA students must participate in a minimum of two (2) MBA Leadership Seminars prior to graduation.

## Other Program-Related Information

### Transfer Credits

A student may transfer credits into the MBA/MIS dual-degree program subject to the following conditions:

- No more than 1/3 of the credits for the dual-degree program may be transfer credits
- No more than 1/3 of the business credits for the dual-degree program may be transfer credits
- No more than 1/3 of the MIS credits for the dual-degree program may be transfer credits
- The transfer credits must conform to the transfer policies of the individual programs that make up the dual-degree program

### Total Credit Hours: 55

### Academic Performance

In addition to UNO Graduate College Quality of Work Standards, Dual Degree (DD) students may repeat only once a BSAD 8-0-level course in which they receive any grade, including "W" or "I". Students earning three "C/C+" grades, or a grade of "C-" or below, will be automatically dismissed from the DD program. Dismissed students will be immediately administratively withdrawn from all courses in which they are enrolled for DD credit.

Students who have been dismissed may not enroll in any courses for DD credit in any subsequent semester or summer session until reinstatement has been granted by the Dual-Degree Program Academic Standards Committee (DDPASC) comprised of the 2 GPC Chairs and 1 faculty member from each GPC.

Students who have been dismissed from the DD program may submit a written petition for reinstatement to the DDPASC. Students petitioning the DDPASC for reinstatement may not enroll in any course for DD credit until after the DDPASC has ruled on the petition. Upon receiving a petition for reinstatement, the DDPASC will evaluate the student's written petition for reinstatement. As part of the reinstatement petitioning process, the DDPASC reserves the right to examine the student's academic record and reserves the right to speak to any previous instructor who has taught the student; this information may be used by the DDPASC in the reinstatement decision. Information provided by previous instructors will not be shared with the student. Reinstatement is a privilege and not all students who are dismissed will be reinstated. Students who have been reinstated will serve a probationary period at the DDPASC's discretion and must satisfy the probationary conditions specified by the DDPASC. In addition to probationary conditions, reinstated students will be subject to additional reinstatement conditions as specified by the DDPASC. These reinstatement conditions will include retaking one or more courses in which the student must earn a grade of "B" (3.0) or higher (the exact grade requirements for retaken courses may in fact be higher than "B" (3.0)). Students not satisfying the probationary or reinstatement conditions will be automatically dismissed.

## Grades Earned in Repeated Courses

When making decisions related to the Quality of Work Standards issues outlined in the UNO Graduate Catalog, the Dual-Degree Program Academic Standards Committee (DDPASC) will consider the initial grade(s) received

in a course as well as the most recent grade received for the course. This approach differs from the method used to calculate GPA in a student's MavLINK/DegreeWorks file, where the most recent grade replaces the grade received in the previous course attempt.

# Public Administration, MPA and Management Information Systems, MS (MPA/MIS)

In government and non-profit organizations, there is a significant need and a long-term demand for persons with advanced skills in information management technology. The primary purpose of this dual degree option is to prepare students to manage and lead organizations in the future. To meet this need, the School of Public Administration and the College of Information Science & Technology offer the option to complete both the MPA and the MS in MIS degree jointly by completing 54-57 hours of course work beyond foundation requirements. This joint degree program is designed for dedicated students who are able to successfully complete graduate intensive study from two perspectives—public administration and management information systems—while achieving a synergy between the two fields. As such, the program involves graduate coursework in both public administration and information systems, with integrative experiences that will attain the desired synergy. Students interested in this option will work closely with a faculty mentor to develop an integrated plan of study at an early stage.

## Program Related Information

### Program Contacts

#### Public Administration

Minsoo Goo, Advisor  
402.554.4900  
mgoo@unomaha.edu

#### Management Information Systems

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/mpa-dual-degree-mis-mpa.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: October 1
- Fall 2026: June 1

### Other Requirements

- The general prerequisite for admission to the program is a four year bachelors' degree with a minimum of a 3.0 GPA of the junior-senior year (last 50-60 credit hours).
- **Entrance Exam:** Submitting GMAT or GRE scores may strengthen your application.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country

on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose**
- **Writing Sample:** From work or previous academic experiences. Alternatively, if you do not have a writing sample, please submit a two page double-spaced word processed essay that addresses the following two topics:
  - Your unique personal qualities and life experiences that distinguish you from other applicants to our graduate program
  - Two accomplishments that demonstrate your potential for success in the graduate program
- **Resume:** Indicate your work experience and background
- **Letters of Recommendation:** Two letters of recommendation are required

## Degree Requirements

### MPA/MIS Foundation Courses

A student must have completed some basic courses either as an undergraduate student or prior to enrolling in the first MS in MIS course. Students may start MPA courses while completing the MIS foundation courses. All must be completed prior to or concurrent with the first six hours of MS in MIS graduate course work.

Foundation courses ensure that all students in the program have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out. [Results of a test out are not appealable or repeatable.](#)

| Code  | Title   | Credits |
|---|---|---------|
| Six hours of programming coursework or equivalent experience: |   | 6       |
| CIST 1600   | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING   | 3       |
| ISQA 3900   | WEB APPLICATION DEVELOPMENT   | 3       |
| One semester of undergraduate information systems, or:        |   | 3       |
| ISQA 8030   | FOUNDATIONS OF INFORMATION SYSTEMS  |         |
| Select one of the following:                                  |   | 3-6     |
| ISQA 8040   | AN OVERVIEW OF SYSTEMS DEVELOPMENT  |         |
| ISQA 4110 & ISQA 4120 & ISQA 3310                             | INFORMATION SYSTEMS ANALYSIS and SYSTEM DESIGN AND IMPLEMENTATION and MANAGING THE DATABASE ENVIRONMENT |         |

## Required Courses

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>MPA Core Courses</b>   |   |           |
| PA 8050   | FOUNDATIONS OF PUBLIC ADMINISTRATION                                      | 3         |
| PA 8090   | ORGANIZATION THEORY AND BEHAVIOR  | 3         |
| PA 8100   | ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS | 3         |
| PA 8400   | PUBLIC AND NONPROFIT BUDGETING  | 3         |
| PA 8300   | POLICY DESIGN AND IMPLEMENTATION  | 3         |
| PA 8530   | PLANNING AND EVALUATION   | 3         |
| <b>MS in MIS Core Courses</b>   |   |           |
| ISQA 8210   | MANAGEMENT OF SOFTWARE DEVELOPMENT  | 3         |
| ISQA 8220   | ADVANCED SYSTEMS ANALYSIS AND DESIGN                                      | 3         |
| ISQA 8310   | IT INFRASTRUCTURE & CLOUD COMPUTING                                       | 3         |
| ISQA 8380   | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION                           | 3         |
| ISQA 8410   | DATA MANAGEMENT   | 3         |
| ISQA 8420   | MANAGING THE I.S. FUNCTION  | 3         |
| <b>Methods Course</b>   |   |           |
| PA 8120 or ISQA 8060  | ANALYSIS AND DECISION MAKING RESEARCH IN MIS                              | 3         |
| <b>MPA/MIS Electives</b>  |   |           |
| Select one of the following:  |   | 12        |
| Take a minimum of six hours each of ISQA elective courses and PA elective courses |   |           |
| Or select a MPA/MIS Specialty Area (see below)                                    |   |           |
| Select one of the following (see below):  |   | 6         |
| Capstone Option   |   |           |
| Thesis Option   |   |           |
| <b>Total Credits</b>  |   | <b>57</b> |

## MPA/MIS Specialty Areas

Students may choose to specialize in the following areas (see details below), or in another area with the approval of their faculty advisor (all courses must be at the 8000-level):

### Program Management

| Code                 | Title  | Credits   |
|----------------------|--|-----------|
| PA 8450              | SEMINAR IN ADVANCED MANAGEMENT ANALYSIS IN PUBLIC AGENCIES | 3         |
| ISQA 8810            | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS                | 3         |
| ISQA 8820            | PROJECT RISK MANAGEMENT                                    | 3         |
| PA 8480              | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION                 | 3         |
| <b>Total Credits</b> |  | <b>12</b> |

### Financial Management Information Systems

| Code    | Title                                      | Credits |
|---------|--|---------|
| PA 8480 | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION | 3       |

|                |  |   |
|----------------|--|---|
| ISQA/CYBR 8570 | INFORMATION SECURITY POLICY AND ETHICS | 3 |
|----------------|--|---|

**Total Credits** 6

### Health Care Information Systems

| Code           | Title                                  | Credits |
|----------------|--|---------|
| ISQA/CYBR 8570 | INFORMATION SECURITY POLICY AND ETHICS | 3       |

Advisor approved course 3

Integrative Experience (Required) 3-6

**Total Credits** 9-12

## MPA/MIS Exit Requirements

### Capstone Option

| Code    | Title                                     | Credits |
|---------|---|---------|
| PA 8990 | CAPSTONE PROJECT IN PUBLIC ADMINISTRATION | 3       |

The MPA capstone course is taken at the end of the program, with no more than nine credit hours remaining. All public administration core classes must be completed prior to taking the capstone course.

| Code      | Title                                   | Credits |
|-----------|---|---------|
| ISQA 8950 | CAPSTONE MANAGEMENT INFORMATION SYSTEMS | 3       |

Six credit hours or fewer may be left in the program. All MIS core courses must have been completed.

### Thesis Option

To complete this option, a student will be required to enroll in six hours of thesis credit.

| Code      | Title  | Credits |
|-----------|--------|---------|
| ISQA 8990 | THESIS | 6       |

The thesis must be in an area that relates to both the public administration and information systems domains.

## Total Credit Hours: 57

## Data Analytics Certificate

Data analytics uses a variety of techniques to examine large amounts of data to discover patterns that can lead to business insights. Data analytics has broad applicability in customer behavior analysis, fraud detection, scientific inquiry, process improvement, financial analysis, trend analysis, forecasting, and decision-making. Techniques may include statistical methods, data mining, modeling and simulation, and data visualization. The certificate is designed to equip students to apply the theory and practice of data analytics to solving problems in a variety of economic, social, and scientific domains.

## Program Related Information

### Program Contact

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

Prospective Student Admission: advising-cist@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/information-systems-and-quantitative-analysis/graduate/graduate-certificates.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

### Other Requirements

- The minimum undergraduate grade point average requirement for the data analytics certificate program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a four-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a detailed resume indicating your work experience and background.
- **OPTIONAL Statement of Purpose:** Applicants may submit a statement of purpose with a maximum of 750 words that address:
  - why you want to study at UNO
  - career goals
  - relevant qualifications or work experience that demonstrate potential for success in the graduate program
  - motivations for pursuing graduate education

## Degree Requirements

### Foundation Requirements

Foundation courses ensure that all students program have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out.



| Code          | Title                                       | Credits |
|---------------|---|---------|
| CIST 2500     | INTRODUCTION TO APPLIED STATISTICS FOR IS&T | 3       |
| or equivalent |   |         |
| ISQA 8030     | FOUNDATIONS OF INFORMATION SYSTEMS          | 3       |
| or equivalent |   |         |
| ISQA 8040     | AN OVERVIEW OF SYSTEMS DEVELOPMENT          | 3       |
| or ISQA 3310  | MANAGING THE DATABASE ENVIRONMENT           |         |
| or equivalent |   |         |

## Requirements

No more than two courses (6 credit hours maximum) can be used on two MIS-related certificates (data analytics, information assurance, project management, and systems analysis and design).

| Code  | Title  | Credits   |
|---|--|-----------|
| <b>Core Courses</b>   |  |           |
| Pick one ISQA course from each of the three categories below                          |  |           |
| <b>Data Engineering</b>   |  | <b>3</b>  |
| ISQA 8016   | BUSINESS INTELLIGENCE                            |           |
| ISQA 8206   | INFORMATION AND DATA QUALITY MANAGEMENT          |           |
| ISQA 8450   | NOSQL AND BIG DATA TECHNOLOGIES                  |           |
| ISQA 8460   | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD |           |
| ISQA 8600   | FROM DATA TO DECISIONS                           |           |
| ISQA 8700   | DATA MINING: THEORY AND PRACTICE                 |           |
| CSCI 8350   | DATA WAREHOUSING AND DATA MINING                 |           |
| <b>Data Analytics</b>   |  | <b>3</b>  |
| ISQA 8156   | ADVANCED STATISTICAL METHODS FOR IS&T            |           |
| ISQA 8340   | APPLIED REGRESSION ANALYSIS                      |           |
| ISQA 8700   | DATA MINING: THEORY AND PRACTICE                 |           |
| ISQA 8720   | APPLIED STATISTICAL MACHINE LEARNING             |           |
| ISQA 8736   | DECISION SUPPORT SYSTEMS                         |           |
| ISQA 8160   | APPLIED DISTRIBUTION FREE STATISTICS             |           |
| ISQA 9120   | APPLIED EXPERIMENTAL DESIGN AND ANALYSIS         |           |
| ISQA 9130   | APPLIED MULTIVARIATE ANALYSIS                    |           |
| CSCI/MATH 8156  | GRAPH THEORY & APPLICATIONS                      |           |
| CSCI/MATH 8306  | DETERMINISTIC OPERATIONS RESEARCH MODELS         |           |
| CSCI 8360   | MACHINE LEARNING FOR TEXT                        |           |
| ECON 8310   | BUSINESS FORECASTING                             |           |
| <b>Data Visualization</b>   |  | <b>3</b>  |
| ISQA 8525   | GRAPHICAL USER INTERFACE DESIGN                  |           |
| ISQA 8750   | STORYTELLING WITH DATA                           |           |
| GEOG 8535   | CARTOGRAPHY AND DATA VISUALIZATION               |           |
| <b>Electives</b>  |  | <b>6</b>  |
| Pick two of the remaining courses from any of the three categories above <sup>1</sup> |  |           |
| <b>Total Credits</b>  |  | <b>15</b> |

<sup>1</sup> ISQA 8080, ISQA 8086, and ISQA 8900 may be used but must be related to data analytics. Prior approval from the GPC is required to use these courses.

## Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- "Incomplete" and "NR" grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

## Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

# Data Management Certificate

Data management focuses on the processes and techniques to manage data as a valuable organizational and societal asset throughout the data lifecycle. The certificate will give students theoretical and practical training in database design and development, database administration, data integration, data engineering, and data governance. Students will be exposed to a variety of data types and different kind of databases such as relational database, data warehouse, and NoSQL and big data databases.

## Program Related Information

### Program Contact

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

Prospective Student Admission: advising-cist@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/information-systems-and-quantitative-analysis/graduate/graduate-certificates.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

## Other Requirements

- Individuals with an undergraduate degree and one to two years of work experience in information systems (IS) related roles are eligible to apply for this certificate programs.
- The minimum undergraduate grade point average requirement for the data management certificate is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a 4-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, OR a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission. Minimum scores required for this program are:
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a detailed resume indicating your work experience and background
- **OPTIONAL Statement of Purpose:** Applicants may submit a statement of purpose with a maximum of 750 words that address:
  - motivations for pursuing graduate education
  - relevant qualifications or work experience that demonstrate potential for success in the graduate program
  - career goals
  - why you want to study at UNO

The data management graduate certificate consists of three core courses (9 credits) and two electives (6 credits) for a total of 15 credit hours. Specific course requirements for the graduate certificate are described below. There are three prerequisite courses which may be waived by the chair of the graduate program committee, based on courses already taken, applicable work experience, test out exams offered by the department, or the recommendation of faculty teaching the prerequisite courses.

## Degree Requirements

### Foundation Requirements

Foundation courses ensure that all students have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out.

- One programming class such as CIST 1400 or equivalent
- One semester of undergraduate database management or equivalent, e.g.,
  - ISQA 3310 Managing the database environment
  - CSCI 4850 Database Management Systems
  - ISQA 8040 An overview of systems development

No more than two courses (6 credit hours maximum) can be used on two MIS-related certificates (data analytics, information assurance, project management, and systems analysis and design).

| Code                    | Title  | Credits   |
|-------------------------|--|-----------|
| <b>Required Courses</b> |  |           |
| ISQA 8306               | DATABASE ADMINISTRATION  | 3         |
| ISQA 8410               | DATA MANAGEMENT  | 3         |
| ISQA 8450               | NOSQL AND BIG DATA TECHNOLOGIES  | 3         |
| <b>Electives</b>        |  | <b>6</b>  |
| ISQA 8016               | BUSINESS INTELLIGENCE  |           |
| ISQA 8206               | INFORMATION AND DATA QUALITY MANAGEMENT                                  |           |
| ISQA 8380               | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION                          |           |
| ISQA 8460               | INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD                         |           |
| ISQA 8570               | INFORMATION SECURITY POLICY AND ETHICS                                   |           |
| ISQA 8600               | FROM DATA TO DECISIONS   |           |
| ISQA 8700               | DATA MINING: THEORY AND PRACTICE   |           |
| GEOG 8056               | GEOGRAPHIC INFORMATION SYSTEMS I   |           |
| GEOG 8535               | CARTOGRAPHY AND DATA VISUALIZATION                                       |           |
| ISQA 8080               | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS <sup>1</sup>                   |           |
| ISQA 8086               | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS <sup>1</sup> |           |
| <b>Total Credits</b>    |  | <b>15</b> |

<sup>1</sup> Topic must be related to data management. Prior approval from the GPC is required to use this course.

Topic of ISQA 8080 and ISQA 8086 must be related to data management. Prior approval from the GPC is required to use this course. Other courses related to data management that are not included in the list of electives may count towards the certificate after approval by the GPC.

## Information Assurance Certificate

The goal of this graduate certificate program is to allow post-baccalaureate students and working professionals to expand their educational background and complete work that could count towards a graduate degree. Earning the graduate certificate will enhance skill sets; provide exposure to new information technologies, theories and practices; allow individuals to work toward various professional certifications; increase growth potential with employers; and increase prospects of obtaining a graduate degree. The graduate certificate program offers existing technical and managerial professionals the chance to improve and hone their communication skills to aide in their professional development.

The information assurance certificate will provide students with the technical, organizational and managerial background to assist in planning,

deploying, and managing security technologies to achieve information assurance.

## Program Related Information

### Program Contact

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

Prospective Student Admission: advising-cist@unomaha.edu

### Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/information-systems-and-quantitative-analysis/graduate/graduate-certificates.php>)

The certificate in information security management can be obtained online, but students will need to consult with the GPC on course offerings.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Program-Specific Requirements

#### Application Deadlines (Spring 2025, Summer 2025, and Fall 2025)

- Fall: July 1
- Spring: December 1
- Summer: April 1

### Other Requirements

- The minimum undergraduate grade point average requirement for the Information Assurance certificate program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a four-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a detailed resume indicating your work experience and background.
- **OPTIONAL Statement of Purpose:**
  - Applicants may submit a statement of purpose with a maximum of 750 words that address:
    - motivations for pursuing graduate education
    - relevant qualifications or work experience that demonstrate potential for success in the graduate program
    - career goals
    - why you want to study at UNO

## Degree Requirements

### Prerequisite Courses

#### Foundation Requirements

Foundation courses ensure that all students have a strong foundation on which to build the rest of the program. These courses not only provide

essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out.

| Code                              | Title   | Credits |
|-----------------------------------|---|---------|
| Select one of the following:      |   | 3       |
| ISQA 8030                         | INFORMATION SYSTEMS AND ETHICS  | 3       |
| or equivalent                     |   |         |
| Select one of the following:      |   | 3-9     |
| ISQA 8040                         | AN OVERVIEW OF SYSTEMS DEVELOPMENT  |         |
| ISQA 4110 & ISQA 4120 & ISQA 3310 | INFORMATION SYSTEMS ANALYSIS and SYSTEM DESIGN AND IMPLEMENTATION and MANAGING THE DATABASE ENVIRONMENT |         |

## Requirements

No more than two courses (6 credit hours maximum) can be used on two MIS-related certificates (Data Analytics, Information Assurance, Project Management, and Systems Analysis and Design).

| Code                         | Title  | Credits   |
|------------------------------|--|-----------|
| <b>Required Courses</b>      |  |           |
| ISQA 8546                    | COMPUTER SECURITY MANAGEMENT   | 3         |
| ISQA/CYBR 8570               | INFORMATION SECURITY POLICY AND ETHICS                                   | 3         |
| ISQA 8580                    | SECURITY RISK MANAGEMENT AND ASSESSMENT                                  | 3         |
| <b>Electives</b>             |  |           |
| Select one of the following: |  | 3         |
| ISQA 8560                    | INFORMATION WARFARE AND SECURITY   |           |
| ISQA 8080                    | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS <sup>1</sup>                   |           |
| ISQA 8086                    | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS <sup>1</sup> |           |
| ISQA 8900                    | INDEPENDENT RESEARCH IN MANAGEMENT INFORMATION SYSTEMS <sup>1</sup>      |           |
| <b>Total Credits</b>         |  | <b>12</b> |

<sup>1</sup> Topic must be related to information assurance. Prior approval from the GPC is required to use this course.

## Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. If students complete the

application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. Applicants must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- “Incomplete” and “NR” grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

## Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

## Project Management Certificate

The goal of the project management graduate certificate program is to allow post-baccalaureate students and working professionals to expand their educational background and complete work that could count towards a graduate degree. Earning the graduate certificate will enhance skill sets; provide exposure to new information technologies, theories and practices; allow individuals to work towards various professional certifications; increase growth potential with employers; and increase prospects of obtaining a graduate degree. The graduate certificate programs offer existing technical and managerial professionals the chance to improve and hone their communication skills to aide in their professional development.

The project management certificate will provide students with the technical, organizational and managerial background to become project managers, project leaders, information technology managers, and software engineers.

## Program Related Information

### Program Contact

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

Prospective Student Admission: advising-cist@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/information-systems-and-quantitative-analysis/graduate/graduate-certificates.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

## Other Requirements

- The minimum undergraduate grade point average requirement for the project management certificate program is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a 4-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a detailed resume indicating your work experience and background.
- **OPTIONAL Statement of Purpose:**
  - Applicants may submit a statement of purpose with a maximum of 750 words that address:
    - motivations for pursuing graduate education
    - relevant qualifications or work experience that demonstrate potential for success in the graduate program
    - career goals
    - why you want to study at UNO

## Degree Requirements

### Foundation Requirements

Foundation courses ensure that all students have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out.

| Code                         | Title   | Credits |
|------------------------------|---|---------|
| CIST 1600                    | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING | 3       |
| ISQA 3900                    | WEB APPLICATION DEVELOPMENT                           | 3       |
| ISQA 8030                    | FOUNDATIONS OF INFORMATION SYSTEMS                    | 3       |
| or equivalent                |   |         |
| Select one of the following: |   | 3-6     |
| ISQA 8040                    | AN OVERVIEW OF SYSTEMS DEVELOPMENT                    |         |

ISQA 4110  
& ISQA 4120  
& ISQA 3310

INFORMATION SYSTEMS ANALYSIS  
and SYSTEM DESIGN AND  
IMPLEMENTATION  
and MANAGING THE DATABASE  
ENVIRONMENT

or equivalent

## Degree Requirements

No more than two courses (six credit hours maximum) can be used on two MIS-related certificates (data analytics, information assurance, project management, and systems analysis and design).

| Code                         | Title  | Credits   |
|------------------------------|--|-----------|
| <b>Required Courses</b>      |  |           |
| ISQA 8210                    | MANAGEMENT OF SOFTWARE DEVELOPMENT                                       | 3         |
| ISQA 8810                    | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS                              | 3         |
| ISQA 8820                    | PROJECT RISK MANAGEMENT  | 3         |
| <b>Electives</b>             |  |           |
| Select one of the following: |  | 3         |
| ISQA 8196                    | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY                        |           |
| ISQA 8220                    | ADVANCED SYSTEMS ANALYSIS AND DESIGN                                     |           |
| ISQA 8420                    | MANAGING THE I.S. FUNCTION   |           |
| ISQA 8080                    | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS <sup>1</sup>                   |           |
| ISQA 8086                    | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS <sup>1</sup> |           |
| ISQA 8900                    | INDEPENDENT RESEARCH IN MANAGEMENT INFORMATION SYSTEMS <sup>1</sup>      |           |
| <b>Total Credits</b>         |  | <b>12</b> |

<sup>1</sup> Topic must be related to project management. Prior approval from the GPC is required to use this course.

## Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. Information can be found here (<http://www.ses.unomaha.edu/registrar/graduate.php>). If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must reapply during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- "Incomplete" and "NR" grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

## Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are

satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

# Systems Analysis and Design Certificate

The goal of this graduate certificate program in systems analysis and design is to allow post-baccalaureate students and working professionals to expand their educational background and complete work that could count towards a graduate degree. Earning the graduate certificate will enhance students' skill sets; provide exposure to new information technologies, theories and practices; allow individuals to work towards various professional certifications; increase growth potential with employers; and increase prospects of obtaining a graduate degree. The graduate certificate program offers existing technical and managerial professionals the chance to improve and hone their communication skills to aide in their professional development.

The systems analysis and design certificate will provide students with the advanced technical, organizational and managerial background to become systems or business analysts and software developers.

## Program Related Information

### Program Contact

Emily Wiemers, Graduate Advisor  
402.554.3819  
[ewiemers@unomaha.edu](mailto:ewiemers@unomaha.edu)

Prospective Student Admission: [advising-cist@unomaha.edu](mailto:advising-cist@unomaha.edu)

**Program Website (<https://www.unomaha.edu/college-of-information-science-and-technology/information-systems-and-quantitative-analysis/graduate/graduate-certificates.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: December 1
- Summer 2026: April 1
- Fall 2026: July 1

## Other Requirements

- The minimum undergraduate grade point average requirement for the systems analysis & design certificate is 3.0 or equivalent score on a 4.0 scale. Applicants should have the equivalent of a 4-year undergraduate degree.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission. Minimum scores required for this program are:
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume:** Submit a detailed resume indicating your work experience and background.
- **OPTIONAL Statement of Purpose:** Applicants may submit a statement of purpose with a maximum of 750 words that address:



- why you want to study at UNO
- career goals
- relevant qualifications or work experience that demonstrate potential for success in the graduate program
- motivations for pursuing graduate education

## Degree Requirements

### Foundation Requirements

Foundation courses ensure that all students have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have an option for testing out.

| Code                              | Title   | Credits |
|-----------------------------------|---|---------|
| ISQA 3900                         | WEB APPLICATION DEVELOPMENT   | 3       |
| or equivalent                     |   |         |
| ISQA 8030                         | FOUNDATIONS OF INFORMATION SYSTEMS  | 3       |
| or equivalent                     |   |         |
| Select one of the following:      |   | 3-9     |
| ISQA 8040                         | AN OVERVIEW OF SYSTEMS DEVELOPMENT  |         |
| ISQA 4110 & ISQA 4120 & ISQA 3310 | INFORMATION SYSTEMS ANALYSIS and SYSTEM DESIGN AND IMPLEMENTATION and MANAGING THE DATABASE ENVIRONMENT |         |

### Requirements

No more than two courses (6 credit hours maximum) can be used on two MIS-related certificates (data analytics, information assurance, project management, and systems analysis and design).

| Code                         | Title  | Credits |
|------------------------------|--|---------|
| <b>Required Courses</b>      |  |         |
| ISQA 8210                    | MANAGEMENT OF SOFTWARE DEVELOPMENT                     | 3       |
| ISQA 8220                    | ADVANCED SYSTEMS ANALYSIS AND DESIGN                   | 3       |
| ISQA 8410                    | DATA MANAGEMENT  | 3       |
| <b>Electives</b>             |  |         |
| Select one of the following: |  | 3       |
| ISQA 8420                    | MANAGING THE I.S. FUNCTION                             |         |
| ISQA 8106                    | INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION      |         |
| ISQA 8080                    | SEMINAR IN MANAGEMENT INFORMATION SYSTEMS <sup>1</sup> |         |

|                      |  |           |
|----------------------|--|-----------|
| ISQA 8086            | SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS <sup>1</sup> |           |
| ISQA 8900            | INDEPENDENT RESEARCH IN MANAGEMENT INFORMATION SYSTEMS <sup>1</sup>      |           |
| <b>Total Credits</b> |  | <b>12</b> |

<sup>1</sup> Topic must be related to systems analysis and design. Prior approval from the GPC is required to use this course.

### Completion of the Certificate

During what is expected to be the semester the certificate is completed and prior to the posted deadline, students should apply for the certificate through MavLINK on or before the deadline. If you complete the application form and do not complete all of the requirements for the certificate, contact the Office of Graduate Studies as soon as possible. You must **reapply** during the next semester in which you expect to complete the certificate; no additional fee is charged to reactivate your application.

The following requirements are due 12 working days prior to commencement:

- "Incomplete" and "NR" grades from previous terms must be removed so that the grade will be in the Office of Graduate Studies.
- All fees, fines, and other obligations due the university must be settled.

For students currently enrolled in courses that are a part of their plan of study, enrollment must be maintained in order to complete the certificate. A grade for any current enrollment must be received by the Registrar's Office no later than the close of business on the fifteenth working day following the end of a semester.

### Awarding of Graduate Certificates

The Office of Graduate Studies will mail the certificate to students when all requirements are completed and all obligations to the university are satisfied. The Graduate College will not approve any changes in the student's permanent record once the certificate is awarded.

## Mathematics

### Degree Programs Offered

- Mathematics, MA (p. 1131)
- Mathematics, MS (p. 1135)
- Mathematics, MAT (p. 1134)

### Certificates Offered

- Secondary Mathematics Specialist Certificate (p. 1139)

## Mathematics, MA

The Master of Arts in mathematics is designed to achieve two objectives:

- Provide a strong program of course work in mathematics beyond the undergraduate level and
- Be flexible enough to accommodate a wide variety of student interests and backgrounds. There are no required courses in the program, but students are strongly encouraged to develop an emphasis in the courses which make up their individual plan of study; such an emphasis provides both focus and depth in the graduate experience.

Whatever their objectives in their graduate programs, students should form a close working relationship with a faculty member having similar mathematical interests as soon as possible. This will ensure good advice in planning a coherent plan of study. In addition, an advisor may be able

to suggest special topics courses, independent study, or the thesis option which could all be used to pursue one's interests in greater depth.

Finally, students who plan to pursue a doctoral degree in mathematics should include a sequence in analysis and a sequence in algebra in their plans of study.

## Program Related Information

### Program Contact

Dora Velcsov, PhD, Graduate Program Chair, (GPC)  
402.554.3295  
dvelcsov@unomaha.edu

### Program Website (<http://www.unomaha.edu/math/>)

### Fast Track Program

The Department of Mathematics and Statistical Sciences has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing a BA/BS in mathematics or pursuing a double-major with BA/BS in mathematics as the primary or secondary major desiring to pursue a MA/MS/MAT in mathematics.
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form, obtain all signatures, and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

### Graduate Assistantships

The Department of Mathematics and Statistical Sciences annually awards graduate assistantships for work within the department. These positions come with a salary, tuition waiver, and subsidized health insurance. For the details of the nature of the work, please visit the assistantships page of the Department of Mathematics and Statistical Sciences website.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: November 30
- Summer 2026: April 15
- Fall 2026: July 31

## Other Requirements

For unconditional admission, an applicant should:

- Have completed a bachelor's degree with a grade point average of at least 3.0 in mathematics courses taken.
- Have completed 15 credit hours of mathematics courses beyond calculus, including MATH 3230/MATH 8235 or equivalent.
- Applicants lacking the 15 credit hours beyond calculus may be eligible for admission in a provisional or unclassified status with a deficiency to be made up in addition to the degree requirements listed.
- Applicants who satisfy the admission requirements above except for the GPA requirement may be granted provisional admission to the graduate program. They will be granted unconditional admission upon completion of 12 graduate hours with a grade of "B" or better in each course.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

## Degree Requirements

### Required Courses

There are no required courses. Students may choose courses with a MATH or STAT prefix numbered 8000 or above. At least 15 of these hours must be in courses with a number ending in the zero digit, including six hours of thesis (MATH 8990), but excluding MATH 8970 (independent study). Students may take up to three hours of MATH 8970, but these hours will not count toward the 15-hour requirement for courses ending in zero. Up to six hours of courses ending in digit 5 may count toward the degree. The following courses do not count for this degree: MATH 8235, STAT 8005, STAT 8805, STAT 8950, and any course with an MTCH prefix.

### Electives

Since all courses are electives with the exception of the six thesis credit hours, all courses taken must satisfy the above requirements for the 30 credit hours. Up to 12 hours of graduate work electives may be taken in areas related to mathematics such as physics, computer science, and economics, if permission is obtained from the Graduate Program Committee.

### Exit Requirements

Students are required to take six hours of MATH 8990. All candidates should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms, and final approval and submission of the thesis.

### Concentrations

Students may choose (although there is no requirement to do so) to add a concentration to their Mathematics MA degree. There are currently three available concentrations:

Mathematics, MA with Computational Mathematics concentration  
Mathematics, MA with Operations Research concentration  
Mathematics, MA with Statistics concentration

## Total Credit Hours: 30

## Concentrations

### Computational Mathematics Concentration

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>Core Courses</b>   |   |           |
| Select at least 5 of the following:   |   | 15        |
| MATH 8336   | INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS <sup>1</sup> |           |
| MATH 8250   | PARTIAL DIFFERENTIAL EQUATIONS                              |           |
| MATH/CSCI 8500  | NUMERICAL LINEAR ALGEBRA                                    |           |
| MATH/CSCI 8510  | NUMERICAL DIFFERENTIAL EQUATIONS                            |           |
| MATH 8406   | THE FINITE ELEMENT METHOD <sup>1</sup>                      |           |
| <b>Electives</b>  |   |           |
| Select at least 9 credit hours of courses related to computational mathematics (see below). |   | 9         |
| MATH 8990   | THESIS  | 6         |
| <b>Total Credits</b>  |   | <b>30</b> |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4330, or MATH 4400 may not take MATH 8336 or MATH 8406 at the graduate level. Students will replace these requirements with additional elective courses.

### Electives

At least nine credit hours of courses related to computational mathematics. Students must have at least 15 hours of courses ending on 0, including the core courses and the six hours of thesis, MATH 8990.

Some suggested courses are provided below. Other elective courses may be possible with the prior permission of the graduate program chair.

If any of the core course requirements were waived, then additional electives should be taken in their place.

| Code      | Title  | Credits |
|-----------|--|---------|
| MATH 8356 | ORDINARY DIFFERENTIAL EQUATIONS <sup>1</sup> | 3       |
| MATH 8056 | LINEAR ALGEBRA <sup>1</sup>                  | 3       |
| MATH 8236 | MATHEMATICAL ANALYSIS I <sup>1</sup>         | 3       |
| MATH 8246 | MATHEMATICAL ANALYSIS II <sup>1</sup>        | 3       |
| MATH 8276 | COMPLEX ANALYSIS <sup>1</sup>                | 3       |
| MATH 8400 | DYNAMICAL SYSTEMS AND CHAOS                  | 3       |
| MATH 8766 | TOPICS IN APPLIED MATHEMATICS                | 3       |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4350, MATH 4050, MATH 4230, MATH 4240 or MATH 4270 may not take MATH 8356, MATH 8056, MATH 8236, MATH 8246, or MATH 8276 at the graduate level.

### Exit Requirement

Students are required to take six hours of MATH 8990. All candidates should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms, and final approval and submission of the thesis.

### Operations Research Concentration

| Code                                | Title   | Credits |
|-------------------------------------|---|---------|
| <b>Core Courses</b>                 |   |         |
| Select at least 5 of the following: |   | 15      |
| MATH/CSCI 8306                      | DETERMINISTIC OPERATIONS RESEARCH MODELS <sup>1</sup> |         |

|                |   |
|----------------|---|
| MATH/CSCI 8316 | PROBABILISTIC OPERATIONS RESEARCH MODELS <sup>1</sup> |
| MATH 8326      | COMPUTATIONAL OPERATIONS RESEARCH <sup>1</sup>        |
| MATH 8430      | LINEAR PROGRAMMING                                    |
| MATH 8440      | NETWORK PROGRAMMING                                   |
| MATH 8460      | INTEGER PROGRAMMING                                   |

### Electives

|  |        |   |
|--|--------|---|
| Select at least nine credit hours of courses related to operations research (see below). |        | 9 |
| MATH 8990  | THESIS | 6 |

**Total Credits** **30**

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4300, MATH 4310, or MATH 4320 may not take MATH 8306, MATH 8316, or MATH 8326 at the graduate level. Students will replace these requirements with additional elective courses.

### Electives

At least nine credit hours of courses related to operations research. Students must have at least 15 hours of courses ending on 0, including the core courses and the six hours of thesis, MATH 8990.

Some suggested courses are provided below. Other elective courses may be possible with the prior permission of the graduate program chair.

If any of the core course requirements were waived, then additional electives should be taken in their place.

| Code           | Title  | Credits |
|----------------|--|---------|
| MATH/CSCI 8156 | GRAPH THEORY & APPLICATIONS <sup>1</sup>                       | 3       |
| MATH/CSCI 8520 | ADVANCED TOPICS IN OPERATIONS RESEARCH                         | 3       |
| MATH 8650      | INTRODUCTION TO PROBABILITY MODELS                             | 3       |
| MATH 8746      | INTRODUCTION TO PROBABILITY AND STATISTICS I <sup>1</sup>      | 3       |
| MATH 8756      | INTRODUCTION TO PROBABILITY AND STATISTICS II <sup>1</sup>     | 3       |
| STAT 8416      | INTRODUCTION TO DATA SCIENCE <sup>1</sup>                      | 3       |
| STAT 8426      | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION <sup>1</sup> | 3       |
| STAT 8436      | LINEAR MODELS <sup>1</sup>                                     | 3       |
| STAT 8446      | TIME SERIES ANALYSIS <sup>1</sup>                              | 3       |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4740, MATH 4750, MATH 4150, STAT 4410, STAT 4420, STAT 4430, or STAT 4440 may not take MATH 8746, MATH 8756, MATH 8156, STAT 8416, STAT 8426, STAT 8436, or STAT 8446 at the graduate level.

### Exit Requirement

Students are required to take 6 hours of MATH 8990. All candidates should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis Equivalent Proposal Approval Forms, and final approval and submission of the thesis.

### Statistics Concentration

| Code                | Title   | Credits |
|---------------------|---|---------|
| <b>Core Courses</b> |   |         |
| MATH 8746           | INTRODUCTION TO PROBABILITY AND STATISTICS I <sup>1</sup> | 3       |

|  |  |           |
|--|--|-----------|
| MATH 8756  | INTRODUCTION TO PROBABILITY AND STATISTICS II <sup>1</sup> | 3         |
| STAT 8436  | LINEAR MODELS <sup>1</sup>                                 | 3         |
| STAT 8710  | DESIGN AND ANALYSIS OF EXPERIMENTS                         | 3         |
| <b>Electives</b>   |  |           |
| Select at least 12 credit hours of courses with a statistical nature (see below) |  | 12        |
| MATH 8990  | THESIS   | 6         |
| <b>Total Credits</b>   |  | <b>30</b> |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4740, MATH 4750, or STAT 4430 may not take MATH 8746, MATH 8756, or STAT 8436 at the graduate level. Students will replace these requirements with additional elective courses.

### Electives

At least 12 credit hours of courses with a statistical nature, with at least six credit hours of courses ending in 0.

Some suggested courses are provided below. Other elective courses may be possible with the prior permission of the graduate program chair.

If any of the core course requirements were waived, then additional electives should be taken in their place.

| Code           | Title  | Credits |
|----------------|--|---------|
| MATH/CSCI 8316 | PROBABILISTIC OPERATIONS RESEARCH MODELS <sup>1</sup>          | 3       |
| MATH 8650      | INTRODUCTION TO PROBABILITY MODELS                             | 3       |
| MATH 8670      | TOPICS IN PROBABILITY AND STATISTICS                           | 3       |
| MATH 8766      | TOPICS IN APPLIED MATHEMATICS                                  | 3       |
| STAT 8416      | INTRODUCTION TO DATA SCIENCE <sup>1</sup>                      | 3       |
| STAT 8426      | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION <sup>1</sup> | 3       |
| STAT 8446      | TIME SERIES ANALYSIS <sup>1</sup>                              | 3       |
| STAT 8700      | BAYESIAN STATISTICS  | 3       |
| STAT 8720      | RELIABILITY THEORY   | 3       |
| STAT 8730      | ADVANCED STATISTICAL MACHINE LEARNING                          | 3       |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4310, STAT 4410, STAT 4420, or STAT 4440 may not take MATH 8316, STAT 8416, STAT 8426 or STAT 8446 at the graduate level.

### Exit Requirement

Students are required to take six hours of MATH 8990. All candidates should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis Equivalent Proposal Approval Forms, and final approval and submission of the thesis.

## Mathematics, MAT

The Master of Arts for Teachers of Mathematics degree is ideal for:

- Current high school teachers who are planning on teaching advanced secondary mathematics such as dual-enrollment calculus at their high school.
- Any student interested in teaching freshman/sophomore level mathematics courses at local universities.

- Any student interested in pursuing a PhD in education with an emphasis in mathematics.

NOTE: This program does not help a student get a state certification to teach high school math. For those students with an undergraduate degrees already interested in pursuing a degree to teach high school math, but do not yet have a state certification to teach, consider the Teacher Academy Project (<http://www.unomaha.edu/college-of-education/moec/projects/teacher-academy-project/>).

## Program Related Information

### Program Contact

Michael Matthews, PhD, Graduate Program Chair (GPC)  
402.554.3558  
[michaelmatthews@unomaha.edu](mailto:michaelmatthews@unomaha.edu)

### Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/mathematics/>)

### Graduate Assistantships

The Department of Mathematics and Statistical Sciences annually awards graduate assistantships for work within the department. These positions come with a salary, tuition waiver, and subsidized health insurance. For the details of the nature of the work, please visit the assistantships page of the Department of Mathematics and Statistical Sciences website.

### Teachers of Mathematics Scholarship

The Teacher of Mathematics Scholarship is awarded to teachers of high school mathematics who are interested in obtaining a graduate degree in mathematics (MS, MA, or MAT) at UNO for the purpose of becoming eligible to teach UNO calculus dual enrollment courses. These scholarships are awarded to teachers in school districts that are participating in the dual-enrollment program. They will provide for the reimbursement of resident tuition for up to six graduate credit hours per semester for one year. No scholarship award becomes final until UNO graduate admission status is obtained. Continuation beyond the first year depends upon satisfactory academic progress and funds available. For further information contact Dr. Janice Rech, [jrech@unomaha.edu](mailto:jrech@unomaha.edu)

### Fast Track Program

The Department of Mathematics and Statistical Sciences has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BA/BS in mathematics or pursuing a double-major with BA/BS in mathematics as the primary or secondary major desiring to pursue a MA/MS/MAT in mathematics.
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form, obtain all signatures, and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.

- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

## Other Requirements

- Have obtained at least a “B” (3.0 on a 4.0 scale) average in previous mathematics courses, including two courses beyond elementary calculus.
- Hold state certification for teaching secondary school mathematics or related experience in an educational setting. Please note, a master’s degree does not lead to initial certification.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

## Degree Requirements

| Code  | Title  | Credits |
|---|--|---------|
| <b>Required Courses</b>   |  |         |
| Complete the Mathematics for Teachers sequence:   |  |         |
| MTCH 8020   | MATHEMATICAL MODELING FOR SECONDARY TEACHERS | 3       |
| MTCH 8030   | ALGEBRA FOR ALGEBRA TEACHERS                 | 3       |
| MTCH 8040   | TOPICS IN MATHEMATICAL COMPUTING             | 3       |
| <b>Education Courses</b>  |  |         |
| Graduate only courses TED 8xx0 to be selected in consultation with your advisor   |  | 9       |
| <b>Mathematic Sequences</b>   |  |         |
| Complete two advisor approved Mathematics (not MTCH) sequence of courses (total of 18 hours). Each sequence must consist of three connected courses as defined below. Please note other courses may be allowed if approved by your advisor. |  | 18      |
| <b>Theoretical Analysis</b>   |  |         |
| MATH 8235   | INTRODUCTION TO ANALYSIS                     |         |
| MATH 8236   | MATHEMATICAL ANALYSIS I                      |         |
| MATH 8246   | MATHEMATICAL ANALYSIS II                     |         |
| <b>Data Science</b>   |  |         |
| STAT 8416   | INTRODUCTION TO DATA SCIENCE                 |         |

|   |  |
|---|--|
| STAT 8426                                 | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION                                  |
| STAT 8436<br>or STAT 8456                 | LINEAR MODELS<br>INTRODUCTION TO MACHINE LEARNING AND DATA MINING                  |
| <b>Operations Research</b>                |  |
| MATH 8306                                 | DETERMINISTIC OPERATIONS RESEARCH MODELS   |
| MATH 8316                                 | PROBABILISTIC OPERATIONS RESEARCH MODELS   |
| MATH 8326<br>or MATH 8430                 | COMPUTATIONAL OPERATIONS RESEARCH<br>LINEAR PROGRAMMING                            |
| <b>Algebra</b>                            |  |
| MATH 8116                                 | ABSTRACT ALGEBRA I   |
| MATH 8126                                 | ABSTRACT ALGEBRA II  |
| MATH 8105<br>or MATH 8060<br>or MATH 8566 | APPLIED COMBINATORICS<br>ALGORITHMIC COMBINATORICS<br>NUMBER THEORY & CRYPTOGRAPHY |
| <b>Probability and Statistics</b>         |  |
| MATH 8746                                 | INTRODUCTION TO PROBABILITY AND STATISTICS I                                       |
| MATH 8756                                 | INTRODUCTION TO PROBABILITY AND STATISTICS II                                      |
| MATH 8670<br>or STAT 8436<br>or STAT 8446 | TOPICS IN PROBABILITY AND STATISTICS<br>LINEAR MODELS<br>TIME SERIES ANALYSIS      |
| <b>Partial Differential Equations</b>     |  |
| MATH 8336                                 | INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS                                     |
| MATH 8250                                 | PARTIAL DIFFERENTIAL EQUATIONS   |
| MATH 8500<br>or MATH 8510                 | NUMERICAL LINEAR ALGEBRA<br>NUMERICAL DIFFERENTIAL EQUATIONS                       |
| <b>Total Credits</b>                      |  |
| <b>36</b>                                 |  |

<sup>1</sup> For example: Applied Modern Algebra, Algebra 1, and Algebra 2. If one of the courses has been taken previously as an undergraduate the course will not count toward the 36 credits, however it will count in terms of completed the three course sequence. Such a situation would in effect enable the MAT student to finish the three course sequence quicker and free up one class for an elective in mathematics.

## Exit Requirements

### • Comprehensive Examination

- Pass the mathematics comprehensive examination. The examination is offered three times a year; on April 15, July 15, and November 15 (or the proceeding Friday if any of these dates falls on a weekend). The mathematics exam is three hours in length and covers the terminal course of each of the two math sequence of courses. Each course instructor will write a 1.5 hour exam and grade the exam as pass or fail. To pass the overall MAT mathematics portion comprehensive exam, the student must pass both.

## Mathematics, MS

The Master of Science in mathematics is designed to achieve two objectives:

- Provide a strong program of course work in mathematics beyond the undergraduate level and
- Be flexible enough to accommodate a wide variety of student interests and backgrounds. There are no required courses in the program,



but students are strongly encouraged to develop an emphasis in the courses which make up their individual plan of study; such an emphasis provides both focus and depth in the graduate experience.

Whatever their objectives in their graduate programs, students should form a close working relationship with a faculty member having similar mathematical interests as soon as possible. This will ensure good advice in planning a coherent plan of study. In addition, an advisor may be able to suggest special topics courses, independent study, or the thesis option which could all be used to pursue one's interests in greater depth. Finally, students who plan to pursue a doctoral degree in mathematics should include a sequence in analysis and a sequence in algebra in their plans of study.

## Program Related Information

### Program Contact

Dora Velcsov, PhD, Graduate Program Chair (GPC)  
402.554.3295  
dvelcsov@unomaha.edu (dvelcsov@unomaha.edu)

**Program Website (<http://www.unomaha.edu/math/>)**

### Fast Track Program

The Department of Mathematics and Statistical Sciences has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing a BA/BS in mathematics or pursuing a double-major with BA/BS in mathematics as the primary or secondary major desiring to pursue a MA/MS/MAT in mathematics.
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

### Graduate Assistantships

The Department of Mathematics and Statistical Sciences annually awards graduate assistantships for work within the department. These positions come with a salary, tuition waiver, and subsidized health insurance. For the details of the nature of the work, please visit the assistantships page of the Department of Mathematics and Statistical Sciences website.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 30
- Summer 2026: April 15
- Fall 2026: July 31

### Other Requirements

For unconditional admission, an applicant should:

- Have completed a bachelor's degree with a grade point average of at least 3.0 in mathematics courses taken.
- Have completed 15 credit hours of mathematics courses beyond calculus, including MATH 3230/MATH 8235 or equivalent.
- Applicants lacking the 15 credit hours beyond calculus may be eligible for admission in a provisional or unclassified status with a deficiency to be made up in addition to the degree requirements listed.
- Applicants who satisfy the admission requirements above except for the GPA requirement may be granted provisional admission to the graduate program. They will be granted unconditional admission upon completion of 12 graduate hours with a grade of "B" or better in each course.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

## Degree Requirements

### Required Courses

There are no required courses. Choose mathematics courses with a MATH or STAT prefix numbered 8000 or above. At least 18 of these hours must be courses with a number ending in a zero digit (8xx0). These 18 hours may include three hours of independent study, MATH 8970. Up to six hours of courses ending in a five digit may count toward the degree (8xx5). The following courses do not count for this degree; MATH 8235, STAT 8005, STAT 8805, STAT 8950, and any courses with the MTCH prefix.

If the project option is chosen, the six required hours of MATH 8960 or STAT 8960 will count towards the overall credit hour total, and the required 18 hours of courses ending in a zero digit.

If a student chooses to add a concentration to their degree program (see below) then there will be specific courses that will be needed to be completed to fulfill the concentration requirements.

### Electives

Since there are no required courses, all courses are electives which must satisfy the requirements given above for the 36 credit hours. Up to 12 hours of graduate work electives may be taken in areas related to mathematics, physics, computer science, and economics, if permission is obtained from the Graduate Program Committee.

### Exit Requirements

Select One:

- **Comprehensive Examination**
  - The comprehensive examination is based on three related courses (one of which must have a number ending in a zero digit) consisting

of two parts. The first part is a one-week take-home examination. The second part is a three hour examination which may be open book, at the discretion of the instructor(s). The examination is normally taken in the student's final semester and should be scheduled well in advance of the graduate college deadlines.

### • Project

- A mathematical or statistical project undertaken under the supervision of both a faculty advisor and an external (industry) advisory. The purpose of the project is for the student to work on a 'real-world' problem. The student will produce a written report and give an oral presentation of their work. Students are required to register for six hours of MATH 8960 or STAT 8960.

## Concentrations

Students may choose (although there is no requirement to do so) to add a concentration to their mathematics MS degree. There are currently four available concentrations:

Mathematics, MS with Computational Mathematics concentration  
 Mathematics, MS with Data Science concentration  
 Mathematics, MS with Operations Research concentration  
 Mathematics, MS with Statistics concentration

### Total Credit Hours: 36

## Concentrations

Courses numbered 8–5 will not count towards the MS degree in Mathematics.

### Computational Mathematics Concentration

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Core Courses</b>  |   |           |
| Select at least 15 credits from the following:   |   | 15        |
| MATH 8250  | PARTIAL DIFFERENTIAL EQUATIONS                              |           |
| MATH 8336  | INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS <sup>1</sup> |           |
| MATH 8406  | THE FINITE ELEMENT METHOD <sup>1</sup>                      |           |
| MATH/CSCI 8500   | NUMERICAL LINEAR ALGEBRA                                    |           |
| MATH/CSCI 8510   | NUMERICAL DIFFERENTIAL EQUATIONS                            |           |
| MATH 8970  | INDEPENDENT GRADUATE STUDIES                                |           |
| <b>Electives</b>   |   |           |
| Select at least 21 credit hours of courses related to computational mathematics (see below). |   | 21        |
| <b>Total Credits</b>   |   | <b>36</b> |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4330 or MATH 4400 may not take MATH 8336 or MATH 8406 at the graduate level. Students can replace these requirements with additional elective courses.

### Electives

At least 21 credit hours of courses related to computational mathematics. Students must have at least 18 hours of courses ending on 0, including the core courses.

Some suggested courses are provided below. Other elective courses may be possible with the prior permission of the graduate program chair.

If any of the core course requirements were waived, then additional electives should be taken in their place.

| Code      | Title                                | Credits |
|-----------|--------------------------------------|---------|
| MATH 8056 | LINEAR ALGEBRA <sup>1</sup>          | 3       |
| MATH 8236 | MATHEMATICAL ANALYSIS I <sup>1</sup> | 3       |

|           |  |     |
|-----------|--|-----|
| MATH 8246 | MATHEMATICAL ANALYSIS II <sup>1</sup>        | 3   |
| MATH 8276 | COMPLEX ANALYSIS <sup>1</sup>                | 3   |
| MATH 8356 | ORDINARY DIFFERENTIAL EQUATIONS <sup>1</sup> | 3   |
| MATH 8400 | DYNAMICAL SYSTEMS AND CHAOS                  | 3   |
| MATH 8766 | TOPICS IN APPLIED MATHEMATICS                | 3   |
| MATH 8970 | INDEPENDENT GRADUATE STUDIES                 | 1-3 |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4350, MATH 4050, MATH 4230, MATH 4240, or MATH 4270 may not take MATH 8356, MATH 8056, MATH 8236, MATH 8246, or MATH 8276 at the graduate level.

## Exit Requirements

### Comprehensive Examination

The comprehensive examination is based on three related courses (one of which must have a number ending in a zero digit) consisting of two parts. The first part is a one-week take-home examination. The second part is a 3-hour examination which may be open book, at the discretion of the instructor(s). The examination is normally taken in the student's final semester and should be scheduled well in advance of the graduate college deadlines.

(Note: The project exit requirement is not available for those students wishing to complete the computational mathematics concentration, only the comprehensive exam exit requirement is allowed).

## Data Science Concentration

### Prerequisites

Some statistics and computer programming are highly recommended.

### Required Courses

| Code                        | Title  | Credits |
|-----------------------------|--|---------|
| <b>Introductory Courses</b> |  |         |
| MATH 8746                   | INTRODUCTION TO PROBABILITY AND STATISTICS I <sup>1</sup>      | 3       |
| MATH 8756                   | INTRODUCTION TO PROBABILITY AND STATISTICS II <sup>1</sup>     | 3       |
| <b>Core Courses</b>         |  |         |
| STAT 8416                   | INTRODUCTION TO DATA SCIENCE <sup>2</sup>                      | 3       |
| STAT 8426                   | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION <sup>2</sup> | 3       |
| MATH/CSCI 8306              | DETERMINISTIC OPERATIONS RESEARCH MODELS <sup>2</sup>          | 3       |

### Approved Electives

|  |   |    |
|--|---|----|
| Select at least 15 credit hours from the following: <sup>3</sup> |   | 15 |
| MATH/CSCI 8316   | PROBABILISTIC OPERATIONS RESEARCH MODELS <sup>4</sup>         |    |
| MATH 8430  | LINEAR PROGRAMMING  |    |
| MATH 8440  | NETWORK PROGRAMMING   |    |
| MATH 8460  | INTEGER PROGRAMMING   |    |
| MATH 8650  | INTRODUCTION TO PROBABILITY MODELS                            |    |
| MATH 8670  | TOPICS IN PROBABILITY AND STATISTICS                          |    |
| MATH 8970  | INDEPENDENT GRADUATE STUDIES                                  |    |
| STAT 8436  | LINEAR MODELS <sup>4</sup>                                    |    |
| STAT 8446  | TIME SERIES ANALYSIS <sup>4</sup>                             |    |
| STAT 8456  | INTRODUCTION TO MACHINE LEARNING AND DATA MINING <sup>4</sup> |    |
| STAT 8700  | BAYESIAN STATISTICS   |    |
| STAT 8710  | DESIGN AND ANALYSIS OF EXPERIMENTS                            |    |

|                      |                                       |           |
|----------------------|---------------------------------------|-----------|
| STAT 8720            | RELIABILITY THEORY                    |           |
| STAT 8730            | ADVANCED STATISTICAL MACHINE LEARNING |           |
| STAT/MATH 8960       | MASTER'S PROJECT                      | 6         |
| <b>Total Credits</b> |                                       | <b>36</b> |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4740 or MATH 4750 may not take MATH 8746 or MATH 8756. For those students who can demonstrate previous statistical exposure can appeal to the graduate program chair to waive the MATH 8746/MATH 8756 requirements. Students can replace these requirements with additional elective courses.

<sup>2</sup> Students who were undergraduates at UNO and took STAT 4410, STAT 4420, or MATH 4300 may not take STAT 8416, STAT 8426, or MATH 8306 at the graduate level. Students can replace these requirements with additional elective courses.

<sup>3</sup> If any of the introductory or core course requirements were waived, then additional electives should be taken in their place. Other elective courses may be possible with the prior permission of the graduate program chair.

<sup>4</sup> Students who were undergraduates at UNO and took MATH 4310, STAT 4430, or STAT 4440 may not take MATH 8316, STAT 8436, or STAT 8446 at the graduate level.

### Exit Requirement

Each student is required to complete a project involving working with real-world data. The student will be advised by both a faculty and external advisor, and a completed written and oral report is required.

Students are required to sign up for 6 hours of MATH 8960 or STAT 8960.

(Note: The comprehensive exam exit requirement is not available for those students wishing to complete the data science concentration, only the project exit requirement is allowed).

## Operations Research Concentration

| Code                                | Title   | Credits |
|-------------------------------------|---|---------|
| <b>Core Courses</b>                 |   |         |
| Select at least 5 of the following: |   | 15      |
| MATH/CSCI 8306                      | DETERMINISTIC OPERATIONS RESEARCH MODELS <sup>1</sup> |         |
| MATH/CSCI 8316                      | PROBABILISTIC OPERATIONS RESEARCH MODELS <sup>1</sup> |         |
| MATH 8326                           | COMPUTATIONAL OPERATIONS RESEARCH <sup>1</sup>        |         |
| MATH 8430                           | LINEAR PROGRAMMING                                    |         |
| MATH 8440                           | NETWORK PROGRAMMING                                   |         |
| MATH 8460                           | INTEGER PROGRAMMING                                   |         |

### Electives

Select one of the following (see below): 21

For students choosing the comprehensive exam option, at least 21 credit hours of courses related to operations research

For students choosing the project option, at least 15 credit hours of courses related to operations research and 6 credit hours of MATH 8960

**Total Credits** 36

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4300, MATH 4310, or MATH 4320 may not take MATH 8306, MATH 8316, or MATH 8326 at the graduate level. Students can replace these requirements with additional elective courses.

## Electives

For students choosing the comprehensive exam option, at least 21 credit hours of courses related to operations research.

For students choosing the project option, at least 15 credit hours of courses related to operations research.

Students must have at least 18 hours of courses ending on 0, including the core courses and, for those choosing the project option, the 6 hours of project, MATH 8960.

Some suggested courses are provided below. Other elective courses may be possible with the prior permission of the graduate program chair.

If any of the core course requirements were waived, then additional electives should be taken in their place.

| Code           | Title  | Credits |
|----------------|--|---------|
| MATH/CSCI 8156 | GRAPH THEORY & APPLICATIONS <sup>1</sup>                       | 3       |
| MATH/CSCI 8520 | ADVANCED TOPICS IN OPERATIONS RESEARCH                         | 3       |
| MATH 8650      | INTRODUCTION TO PROBABILITY MODELS                             | 3       |
| MATH 8746      | INTRODUCTION TO PROBABILITY AND STATISTICS I <sup>1</sup>      | 3       |
| MATH 8756      | INTRODUCTION TO PROBABILITY AND STATISTICS II <sup>1</sup>     | 3       |
| MATH 8970      | INDEPENDENT GRADUATE STUDIES                                   | 1-3     |
| STAT 8416      | INTRODUCTION TO DATA SCIENCE <sup>1</sup>                      | 3       |
| STAT 8426      | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION <sup>1</sup> | 3       |
| STAT 8436      | LINEAR MODELS <sup>1</sup>                                     | 3       |
| STAT 8446      | TIME SERIES ANALYSIS <sup>1</sup>                              | 3       |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4740, MATH 4750, MATH 4150, STAT 4410, STAT 4420, STAT 4430, or STAT 4440 may not take MATH 8746, MATH 8756, MATH 8156, STAT 8416, STAT 8426, STAT 8436, or STAT 8446 at the graduate level.

## Exit Requirements

| Code                         | Title            | Credits |
|------------------------------|------------------|---------|
| Comprehensive Examination or |                  |         |
| MATH/STAT 8960               | MASTER'S PROJECT | 6       |

The comprehensive examination is based on three related courses (one of which must have a number ending in a zero digit) consisting of two parts. The first part is a one-week take-home examination. The second part is a 3-hour examination which may be open book, at the discretion of the instructor(s). The examination is normally taken in the student's final semester and should be scheduled well in advance of the graduate college deadlines.

A project undertaken under the supervision of both a faculty advisor and an external (industry) advisory. The purpose of the project is for the student to work on a 'real-world' problem using the skills learned during their coursework. The student will produce a written report and give an oral presentation of their work. Students are required to register for 6 hours of MATH 8960.

## Statistics Concentration

| Code                | Title   | Credits |
|---------------------|---|---------|
| <b>Core Courses</b> |   |         |
| MATH 8746           | INTRODUCTION TO PROBABILITY AND STATISTICS I <sup>1</sup> | 3       |

|           |  |   |
|-----------|--|---|
| MATH 8756 | INTRODUCTION TO PROBABILITY AND STATISTICS II <sup>1</sup> | 3 |
| STAT 8436 | LINEAR MODELS <sup>1</sup>                                 | 3 |
| STAT 8710 | DESIGN AND ANALYSIS OF EXPERIMENTS                         | 3 |

**Electives**

Select one of the following (see below): 24

For students choosing the comprehensive exam option, at least 24 credit hours of courses with a statistical nature, with at least 15 hours of courses ending in 0.

For students choosing the project option, at least 18 credit hours of courses with a statistical nature, with at least 9 hours of courses ending in 0. Six hours of MATH 8960 are required.

**Total Credits** 36

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4740, MATH 4750, or STAT 4430 may not take MATH 8746, MATH 8756, or STAT 8436 at the graduate level. Students can replace these requirements with additional elective courses.

**Electives**

For students choosing the comprehensive exam option, at least 24 credit hours of courses with a statistical nature, with at least 15 hours of courses ending in 0.

For students choosing the project option, at least 18 credit hours of courses with a statistical nature, with at least 9 hours of courses ending in 0.

Some suggested courses are provided below. Other elective courses may be possible with the prior permission of the graduate program chair.

If any of the core course requirements were waived, then additional electives should be taken in their place.

| Code           | Title  | Credits |
|----------------|--|---------|
| MATH/CSCI 8316 | PROBABILISTIC OPERATIONS RESEARCH MODELS <sup>1</sup>          | 3       |
| MATH 8650      | INTRODUCTION TO PROBABILITY MODELS                             | 3       |
| MATH 8670      | TOPICS IN PROBABILITY AND STATISTICS                           | 3       |
| MATH 8970      | INDEPENDENT GRADUATE STUDIES                                   | 1-3     |
| STAT 8416      | INTRODUCTION TO DATA SCIENCE <sup>1</sup>                      | 3       |
| STAT 8426      | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION <sup>1</sup> | 3       |
| STAT 8446      | TIME SERIES ANALYSIS <sup>1</sup>                              | 3       |
| STAT 8700      | BAYESIAN STATISTICS  | 3       |
| STAT 8720      | RELIABILITY THEORY   | 3       |
| STAT 8730      | ADVANCED STATISTICAL MACHINE LEARNING                          | 3       |

<sup>1</sup> Students who were undergraduates at UNO and took MATH 4310, STAT 4410, STAT 4420, or STAT 4440 may not take MATH 8316, STAT 8416, STAT 8426, or STAT 8446 at the graduate level.

**Exit Requirements**

| Code                         | Title            | Credits |
|------------------------------|------------------|---------|
| Comprehensive Examination or |                  |         |
| STAT/MATH 8960               | MASTER'S PROJECT | 6       |

The comprehensive examination is based on three related courses (one of which must have a number ending in a zero digit) consisting of two parts. The first part is a one-week take-home examination. The second

part is a 3-hour examination which may be open book, at the discretion of the instructor(s). The examination is normally taken in the student's final semester and should be scheduled well in advance of the graduate college deadlines.

A statistical project undertaken under the supervision of both a faculty advisor and an external (industry) advisory. The purpose of the project is for the student to work on a 'real-world' problem. The student will produce a written report and give an oral presentation of their work.

Students are required to register for 6 hours of STAT 8960.

## Secondary Mathematics Specialist Certificate

The secondary mathematics specialist certificate is ideal for:

- Current high school teachers who are planning on teaching advanced secondary mathematics such as dual-enrollment college algebra at their high school and already have a masters degree in a STEM or education field or would like to get one.
- Any student interested in teaching freshman/sophomore level mathematics courses at local universities.

NOTE: This program does not help a student get a state certification to teach high school math. For those students with an undergraduate degrees already interested in pursuing a degree to teach high school math, but do not yet have a state certification to teach, consider the Teacher Academy Project (<http://www.unomaha.edu/college-of-education/moec/projects/teacher-academy-project/>).

## Program Related Information

### Program Contact

Michael Matthews, PhD, Graduate Program Chair (GPC)  
402.554.3558  
[michaelmatthews@unomaha.edu](mailto:michaelmatthews@unomaha.edu)

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/mathematics/>)**

### Teachers of Mathematics Scholarship

The Teacher of Mathematics Scholarship is awarded to teachers of high school mathematics who are interested in obtaining a graduate degree in mathematics (MS, MA, or MAT) at UNO for the purpose of becoming eligible to teach UNO calculus dual-enrollment courses. Students pursuing this certificate can qualify for this scholarship if planning to pursue a MS, MA or MAT in mathematics in conjunction with this certificate. These scholarships are awarded to teachers in school districts that are participating in the dual-enrollment program. They will provide for the reimbursement of resident tuition for up to six graduate credit hours per semester for one year. No scholarship award becomes final until UNO graduate admission status is obtained. Continuation beyond the first year depends upon satisfactory academic progress and funds available. For further information contact Dr. Janice Rech, [jrech@unomaha.edu](mailto:jrech@unomaha.edu).

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

## Other Requirements

Individuals applying must satisfy the following requirements which are the same as for the Mathematics MAT degree.

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Have obtained at least a "B" (3.0 on a 4.0 scale) average in previous mathematics courses, including two courses beyond elementary calculus.
- Hold state certification for teaching secondary school mathematics.
- Course prerequisites will be determined at admission.

## Degree Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>                          |   |           |
| MTCH 8020  | MATHEMATICAL MODELING FOR SECONDARY TEACHERS                                      | 3         |
| MTCH 8030  | ALGEBRA FOR ALGEBRA TEACHERS  | 3         |
| MTCH 8040  | TOPICS IN MATHEMATICAL COMPUTING  | 3         |
| MATH 8756  | INTRODUCTION TO PROBABILITY AND STATISTICS II                                     | 3         |
| STAT 8416<br>or STAT 8426                        | INTRODUCTION TO DATA SCIENCE<br>EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION | 3         |
| <b>Elective</b>                                  |   |           |
| Complete one 3 hour MATH or STAT graduate course |   | 3         |
| <b>Total Credits</b>                             |   | <b>18</b> |

## Music

### Degree Programs Offered

- Music, MM (p. 1140)

### Certificates Offered

- Conducting Certificate (p. 1141)
- Kodaly Certificate (p. 1142)

## Music, MM

The Master of Music degree at the University of Nebraska at Omaha (UNO) is divided into four concentrations: music education, music performance, jazz and conducting. The music performance and jazz concentrations are 30 hour programs that emphasize performance and applied music. Courses dealing with history, theory, and pedagogy are included, and opportunities for internships and performances in local professional organizations such as Opera Omaha, Omaha Performing Arts, North Omaha Music and Arts and the Omaha Symphony are enjoyed by students at UNO. The music education concentration is a 30 hour program with courses that emphasize pedagogy, practical application of music skills, and research for teachers at all levels. The class times and offerings are scheduled with the current practitioner in mind and include the option to complete the coursework online or during summer sessions. The conducting concentration is a 30 hour program that emphasizes individualized instruction in conducting and maximizes experiences in front of an ensemble. Courses in music history, literature, and theory supplement the practical experience to help produce

well-rounded graduates with considerable knowledge of techniques and literature. The conducting concentration is available through in-person instruction, online/remote instruction, or hybrid instruction. In order to pursue the online/remote delivery option students must have an off-campus lab ensemble approved by graduate conducting faculty as part of the audition process.

## Program Related Information

### Program Contact

Pete Madsen, DMA, Graduate Program Chair (GPC)  
402.554.2297  
[petermadsen@unomaha.edu](mailto:petermadsen@unomaha.edu)

### Program Website (<http://www.unomaha.edu/college-of-communication-fine-arts-and-media/music/>)

## Admissions

General Application Requirements and Admission Criteria

### Application Deadlines

- Spring 2026: November 15
- Summer 2026: April 15
- Fall 2026: June 15

### Other Requirements

- Applicants must have an undergraduate degree in music from an accredited institution and have an undergraduate cumulative GPA of 3.0 or a GPA of 3.0 or better in all music courses.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume**
- If the applicant does not have an undergraduate degree in music, the applicant must take the School of Music Graduate Diagnostic Exam before enrolling in any graduate courses in order to determine which undergraduate foundation courses may be necessary.
- An audition for a panel of three graduate faculty members is required for all applicants wishing to pursue the performance, jazz or conducting concentration.
- Conducting students wishing to pursue the online delivery option must have an off-campus lab ensemble approved by graduate conducting faculty as part of the audition process. Video auditions may be requested prior to a live audition.

## Degree Requirements

Student must select an area of concentration.

## Concentrations

### Conducting Concentration

| Code                                  | Title                              | Credits |
|---------------------------------------|------------------------------------|---------|
| <b>Required Concentration Courses</b> |                                    |         |
| MUS 8630                              | RESEARCH AND BIBLIOGRAPHY IN MUSIC | 3       |



|          |  |    |
|----------|--|----|
| MUS 8700 | CONDUCTING PRACTICUM (12 hours required) | 12 |
| MUS 8460 | MUSIC ANALYSIS                           | 3  |

**Music History and Literature**

Select 3 hours from the following: 3

|          |                              |  |
|----------|------------------------------|--|
| MUS 8546 | RENAISSANCE MUSIC LITERATURE |  |
| MUS 8556 | BAROQUE MUSIC LITERATURE     |  |
| MUS 8566 | CLASSICAL MUSIC LITERATURE   |  |
| MUS 8576 | ROMANTIC MUSIC LITERATURE    |  |
| MUS 8586 | MUSIC FROM 1900 - 1945       |  |
| MUS 8446 | MUSIC SINCE 1945             |  |

**Electives**

The electives are approved by the graduate advisor during the advising process. Six of the 9 hours must be in music and the remaining 3 hours can be from any academic area. Special note, students pursuing the choral conducting option must complete MUS 8726 as an elective. 9

**Total Credits** 30

**Jazz Concentration**

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**Required Concentration Courses**

Select 12 hours in MUS 815 Applied Music A-Z 12

|          |  |   |
|----------|--|---|
| MUS 8630 | RESEARCH AND BIBLIOGRAPHY IN MUSIC                   | 3 |
| MUS 8436 | ARRANGING FOR JAZZ ENSEMBLE                          | 3 |
| MUS 8596 | AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP | 3 |
| MUS 8836 | ARRANGING FOR JAZZ ENSEMBLE II                       | 3 |

**Electives in Music** 6

Electives are approved by the graduate advisor during the advising process.

**Total Credits** 30

**Music Education Concentration**

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**Required Concentration Courses**

|          |  |   |
|----------|--|---|
| MUS 8630 | RESEARCH AND BIBLIOGRAPHY IN MUSIC       | 3 |
| MUS 8610 | ORGANIZATION AND ADMINISTRATION IN MUSIC | 3 |
| MUS 8640 | FOUNDATIONS OF MUSIC EDUCATION           | 3 |
| MUS 8600 | PEDAGOGY OF WORLD MUSIC                  | 3 |
| MUS 8660 | PEDAGOGY OF MUSIC THEORY                 | 3 |

**Required Music Theory Course**

|          |                |   |
|----------|----------------|---|
| MUS 8460 | MUSIC ANALYSIS | 3 |
|----------|----------------|---|

**Required Music History and Literature Course**

Select 3 hours from the following: 3

|          |                              |  |
|----------|------------------------------|--|
| MUS 8546 | RENAISSANCE MUSIC LITERATURE |  |
| MUS 8556 | BAROQUE MUSIC LITERATURE     |  |
| MUS 8566 | CLASSICAL MUSIC LITERATURE   |  |
| MUS 8576 | ROMANTIC MUSIC LITERATURE    |  |
| MUS 8586 | MUSIC FROM 1900 - 1945       |  |
| MUS 8446 | MUSIC SINCE 1945             |  |

**Electives in Music** 6

**Electives in Music or Education** 3

All electives must be approved by the graduate advisor during the advising process.

**Total Credits** 30

**Music Performance Concentration**

| Code | Title | Credits |
|------|-------|---------|
|------|-------|---------|

**Required Concentration Courses**

Select 12 hours in MUS 815 A-Z 12

|          |  |   |
|----------|--|---|
| MUS 8630 | RESEARCH AND BIBLIOGRAPHY IN MUSIC                                       | 3 |
| MUS 8460 | MUSIC ANALYSIS   | 3 |
| MUS 8160 | PERFORMING ENSEMBLES (MUS 8160 must be completed for a total of 3 hours) | 3 |

**Required Music History and Literature**

Select 3 hours from the following: 3

|          |                              |  |
|----------|------------------------------|--|
| MUS 8546 | RENAISSANCE MUSIC LITERATURE |  |
| MUS 8556 | BAROQUE MUSIC LITERATURE     |  |
| MUS 8566 | CLASSICAL MUSIC LITERATURE   |  |
| MUS 8576 | ROMANTIC MUSIC LITERATURE    |  |
| MUS 8586 | MUSIC FROM 1900 - 1945       |  |
| MUS 8446 | MUSIC SINCE 1945             |  |

**Electives in Music**

Electives are approved by the graduate advisor during the advising process. 6

**Total Credits** 30

**Exit Requirements**

All students must take final comprehensive examinations. Students can take comprehensive exams before the semester in which they intend to graduate; however, all required coursework in the program must be completed. The exception is if a student has not completed one required course and is enrolled in that course during the semester in which they are taking the comprehensive exams. Comprehensive exams will be offered three times during the course of the year—Fall, Spring and Summer. Normally the exams are administered on the last Saturday of October or first Saturday in November (Fall Semester), the second or third Saturday in April (Spring Semester), and the last Friday of June or the first Friday of July (Summer Term).

The concentrations identified below have an additional culminating demonstration of professional capability in the concentration field.

- Students completing the Conducting concentration must present and pass two public performances. The graduate program coordinator must approve the public performances which typically consist of a recital or concert.
- Students in Performance and Jazz concentrations must present and pass two public performances or present and pass one public performance and complete MUS 8970 Graduate Project. The graduate program coordinator must approve the public performance(s) which typically consist of a recital or major role in an opera. MUS 8970 can count toward electives.

**Conducting Certificate**

The conducting graduate certificate is designed to provide practitioners with an opportunity to enhance their conducting skills through a program emphasizing applied experiences in front of a performing ensemble. The program may be completed as a stand-alone certificate, or concurrently with the Master of Music-Education concentration. It is available through in-person instruction, online/remote instruction, or hybrid instruction. In order to pursue the online/remote

delivery option students must have an off-campus lab ensemble approved by graduate conducting faculty as part of the audition process.

## Program Related Information

### Program Contact

Pete Madsen, DMA, Graduate Program Chair (GPC)  
402.554.2297  
petermadsen@unomaha.edu

### Program Website (<http://www.unomaha.edu/college-of-communication-fine-arts-and-media/music/>)

## Admissions

General Application Requirements and Admission Criteria (<https://catalog.unomaha.edu/graduate/admission/>)

### Application Deadlines

- Spring 2026: November 15
- Summer 2026: April 15
- Fall 2026: June 15

### Other Requirements

- Applicants must have an undergraduate degree in music from an accredited institution and have an undergraduate cumulative GPA of 3.0 or a GPA of 3.0 or better in all music courses.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume**
- If the applicant does not have an undergraduate degree in music, the applicant must take the School of Music Graduate Diagnostic Exam before enrolling in any graduate courses in order to determine which undergraduate foundation courses may be necessary.
- An audition for a panel of three graduate faculty is required. Students wishing to pursue the online delivery option must have an off-campus lab ensemble approved by graduate conducting faculty as a part of the audition process.

## Degree Requirements

| Code                         | Title  | Credits  |
|------------------------------|--|----------|
| MUS 8700                     | CONDUCTING PRACTICUM (Six hours are required.) | 6        |
| Select one of the following: |  | 3        |
| MUS 8576                     | ROMANTIC MUSIC LITERATURE                      |          |
| MUS 8446                     | MUSIC SINCE 1945                               |          |
| MUS 8586                     | MUSIC FROM 1900 - 1945                         |          |
| MUS 8566                     | CLASSICAL MUSIC LITERATURE                     |          |
| MUS 8546                     | RENAISSANCE MUSIC LITERATURE                   |          |
| <b>Electives</b>             |  | <b>3</b> |

Select three hours of electives approved by the graduate advisor during the advising process.

**Total Credits**

**12**

### Exit Requirement

- Students completing the conducting certificate must present and pass one public performance. The graduate program coordinator must approve the public performance which typically consists of a recital or concert.

## Kodaly Certificate

The Kodály graduate certificate program is designed provide music educators with an opportunity to enhance their pedagogical skills with a program that promotes music literacy through experiential learning in singing, movement, and reading activities. The program may be completed as a stand-alone certificate, or concurrently with the Master of Music-Education concentration. The Kodály program—named for the methods developed by Zoltán Kodály, a Hungarian composer and ethnomusicologist—includes courses that provide classroom applications of the method, folksong literature research, conducting experiences, and instruction in solfege.

## Program Related Information

### Program Contact

Shelly Cooper, DMA, Music Education Area Coordinator  
402.554.4897  
scscooper@unomaha.edu

Pete Madsen, DMA, Graduate Program Chair (GPC)  
402.554.2297  
petermadsen@unomaha.edu

### Program Website (<http://www.unomaha.edu/college-of-communication-fine-arts-and-media/music/>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 15
- Summer 2026: April 15
- Fall 2026: June 15

### Other Requirements

- Student must have an undergraduate degree in music from an accredited institution and have an undergraduate cumulative GPA of 3.0 or a GPA of 3.0 or better in all music courses.
- If the student does not have an undergraduate degree in music, the student must take the School of Music Graduate Diagnostic Exam before enrolling in any graduate courses in order to determine which undergraduate foundation courses may be necessary.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Resume**

## Degree Requirements

| Code  | Title                                      | Credits            |
|---|--|--------------------|
| <b>Core Courses</b>   |  |                    |
| MUS 8670  | KODALY I: METHODOLOGY                      | 3                  |
| MUS 8680  | KODALY 2: METHODOLOGY                      | 3                  |
| MUS 8690  | KODALY 3: METHODOLOGY                      | 3                  |
| MUS 8720  | KODALY 1: MUSICIANSHIP                     | 1                  |
| MUS 8730  | KODALY 2: MUSICIANSHIP                     | 1                  |
| MUS 8740  | KODALY 3: MUSICIANSHIP                     | 1                  |
| <b>Select Track One or Two:</b>   |  |                    |
| Track One   |  | 4                  |
| MUS 8710  | KODALY 4: METHODOLOGY AND ADVANCED STUDIES |                    |
| MUS 8770  | KODALY 4: MUSICIANSHIP                     |                    |
| Track Two   |  |                    |
| Electives in Music (The electives are approved by the graduate advisor during the advising process) |  | 3                  |
| <b>TOTAL</b>  |  | <b>15-16 Hours</b> |

## Political Science

### Degree Programs Offered

- Political Science, MS (p. 1143)

### Certificates Offered

- Government Certificate (p. 1149)
- Global Information Operations Certificate (p. 1148)
- Intelligence and National Security Certificate (p. 1151)

## Political Science, MS

The Department of Political Science's vision is to provide quality research, teaching, and service for our students, community, and academic field in order to produce qualified individuals and advanced knowledge to benefit communities regionally, nationally, and internationally. UNO is recognized by the Carnegie Foundation for the Advancement of Teaching as a doctoral and research institution. We value diversity among faculty, staff, and students and recognize its essential contribution to campus culture and development of knowledge. The Master of Science in political science offers a broad foundation in the discipline with a high degree of interdisciplinary collaboration, if desired. Some students enter the program with the intention of continuing on with their PhD, while others use the program to prepare themselves as practitioners in the fields of education, government, intelligence, law, journalism, non-profit, or lobbying. Students can earn the degree completely on-line, on-campus, or blended (on-line/on-campus).

## Program Related Information

### Program Contact

casgradonline@unomaha.edu  
402.554.4121

### Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/political-science/>)

### Other Program Related Information

The UNO PSCI master's program affords its students an environment that serves as an incubator for acquiring the skills necessary for students' desired careers, and for developing a self-understanding that will enable students to succeed both professionally and personally. Students are assured of a high-quality degree program that not only meets but exceeds national standards of education in political science.

- **Our Flexibility:** our program offers flexibility to tailor an area of specialization. This flexibility encourages students to create an approved program of study that incorporates interests in other disciplines, such as communications, criminal justice, economics, geography, history, psychology, public administration, social work, sociology, teacher education, and urban studies. We accept up to 9 hours of graduate-level transfer credit, graded at a B or above, from another accredited institution that has not been applied towards another degree or completed program. In addition, students can apply up to 12 approved elective credit hours of UNO-taught courses outside the field of political science.

### Fast Track Program

The Department of Political Science has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing BA/BS in political science or BA in international studies desiring to pursue a MS in political science.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

#### Notes:

- 8000-level courses taken at the undergraduate level without having been accepted into the integrated program will not count towards a graduate program.
- Students accepted into the Fast Track program may be denied entry into the graduate program due to, but not limited to poor performance, academic integrity issues, and other violations of the student code of conduct.

- Before starting graduate work, students are expected to complete all PSCI subfield introductory courses (1100, 2000, 2210, 2310, and 2500) and 2-3 upper-level (3000/4000) political science courses.
- Please inquire with the Department of Political Science graduate advisor for more information about this program.

## Admissions

General Application Requirements and Admission Criteria

### Application Deadlines

- Spring 2026: Review begins October 1
- Summer 2026: Review begins April 15
- Fall 2026: Review begins February 15

Note: Applications will be received and reviewed until the term begins.

If applying for a graduate assistantship, both admission and assistantship application materials must be completed by February 15 (for fall semester) and October 1 (for spring semester) for priority consideration.

### Other Requirements

- Baccalaureate degree or previous master's degree with a minimum of 3.0 GPA.
- Fifteen credit hours in political science-related courses is preferred. The selection committee looks for previous coursework in American government, political theory, international relations, comparative politics, and social science (quantitative) methodology. Applicants without the above undergraduate background in political science may be admitted on a provisional basis and be required to take prerequisite courses before starting graduate work. A grade of B or above is required in each of these courses.
- **English-Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80 with no sub-score under 15, IELTS: 6.5, PTE: 53, Duolingo: 110
  - Passing with a minimum score does not guarantee admission into the program.
- **Statement of Purpose:** A personal statement should be 1-2 pages and address why you are seeking admission to this program, how your academic/professional experiences will contribute to your success in the program, and how the program will contribute to your future academic/professional ambitions.
- **Writing Sample:** Submission of an academic, research-based writing sample. The sample must be written in English, include citations, and be a minimum of five pages in length. This writing sample can be a previous academic course assignment. If no such paper exists, the applicant should contact the academic advisor for an alternative assignment.
- **Resume:** Submit a professional resume
- **Letters of Recommendation:** Submit two letters of recommendation from a former professor (preferred), supervisor, or other professional contact who can speak to one's academic potential in a graduate program. If applicants have recently graduated from UNO, it is expected that one of the letters will be from a UNO political science faculty member. It is preferred that applicants use their references' institutional (.edu) or professional email.

- GRE scores are not required for admission, however, applicants are welcome to submit them.

## Degree Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>Required: Methods Seminar</b>   |  | <b>3</b>  |
| PSCI 8000  | SEMINAR IN THE RESEARCH METHODS IN POLITICAL SCIENCE |           |
| <b>Required: Three Core Subfield Seminars</b>  |  | <b>9</b>  |
| PSCI 8040  | SEMINAR IN AMERICAN GOVERNMENT AND POLITICS          |           |
| PSCI 8250  | SEMINAR IN INTERNATIONAL RELATIONS                   |           |
| PSCI 8300  | SEMINAR IN POLITICAL THEORY                          |           |
| PSCI 8500  | SEMINAR IN COMPARATIVE POLITICS                      |           |
| <b>Required for Non-thesis Students: Two Additional Seminars (from list below or remaining subfield seminar)</b> |  | <b>6</b>  |
| PSCI 8100  | SEMINAR IN POLITICAL ECONOMY                         |           |
| PSCI 8120  | SEMINAR IN LEADERSHIP                                |           |
| PSCI 8150  | SEMINAR IN CONSTITUTIONAL LAW                        |           |
| PSCI 8200  | SEMINAR IN FOREIGN POLICY AND NATIONAL SECURITY      |           |
| PSCI 8220  | SEMINAR ON INTERNATIONAL LEADERSHIP AND STRATEGY     |           |
| PSCI 8920  | SEMINAR IN SPECIAL TOPICS IN POLITICAL SCIENCE       |           |
| <b>Required: Four Elective Courses (from remaining seminars or list below)</b>                                   |  | <b>12</b> |
| PSCI 8005  | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE           |           |
| PSCI 8015  | URBAN POLITICS                                       |           |
| PSCI 8036  | THE PRESIDENCY                                       |           |
| PSCI 8045  | GOVERNMENT AND POLITICS OF NEBRASKA                  |           |
| PSCI 8046  | CONGRESS AND THE LEGISLATIVE PROCESS                 |           |
| PSCI 8055  | STATE GOVERNMENT AND POLITICS                        |           |
| PSCI 8056  | THE JUDICIAL PROCESS                                 |           |
| PSCI 8105  | LGBTQ+ POLITICS                                      |           |
| PSCI 8106  | MONEY IN AMERICAN POLITICS                           |           |
| PSCI 8116  | POLITICAL PSYCHOLOGY                                 |           |
| PSCI 8126  | PUBLIC OPINION AND POLLING                           |           |
| PSCI 8135  | WOMEN AND POLITICS                                   |           |
| PSCI 8145  | LATINO/-A POLITICS                                   |           |
| PSCI 8146  | CONSTITUTIONAL LAW: CIVIL RIGHTS                     |           |
| PSCI 8165  | POLITICAL PARTIES                                    |           |
| PSCI 8175  | INTEREST GROUPS                                      |           |
| PSCI 8176  | CONSTITUTIONAL LAW: FOUNDATIONS                      |           |
| PSCI 8185  | CAMPAIGNS AND ELECTIONS                              |           |
| PSCI 8186  | CONSTITUTIONAL LAW: THE FEDERAL SYSTEM               |           |
| PSCI 8196  | CONSTITUTIONAL LAW: CIVIL LIBERTIES                  |           |
| PSCI 8206  | INTERNATIONAL RELATIONS OF EAST ASIA                 |           |
| PSCI 8216  | INTERNATIONAL RELATIONS OF THE MIDDLE EAST           |           |
| PSCI 8225  | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING          |           |

|                                  |  |
|----------------------------------|--|
| PSCI 8235                        | GENDER AND GLOBAL POLITICS                                   |
| PSCI 8245                        | THE POLITICS AND PRACTICE OF HUMAN RIGHTS                    |
| PSCI 8246                        | INTERNATIONAL CONFLICT RESOLUTION                            |
| PSCI 8255                        | GLOBAL SECURITY ISSUES                                       |
| PSCI 8256                        | INTELLIGENCE AND NATIONAL SECURITY                           |
| PSCI 8265                        | UNITED STATES FOREIGN POLICY                                 |
| PSCI 8266                        | INTERNATIONAL LAW  |
| PSCI 8276                        | GLOBAL ENVIRONMENTAL POLITICS                                |
| PSCI 8286                        | INTERNATIONAL RELATIONS OF LATIN AMERICA                     |
| PSCI 8296                        | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY                   |
| PSCI 8316                        | CLASSICAL POLITICAL THOUGHT                                  |
| PSCI 8326                        | EARLY MODERN POLITICAL THOUGHT                               |
| PSCI 8336                        | LATE MODERN POLITICAL THOUGHT                                |
| PSCI 8345                        | AMERICAN POLITICAL THOUGHT                                   |
| PSCI 8346                        | CONTEMPORARY POLITICAL THOUGHT                               |
| PSCI 8356                        | DEMOCRACY  |
| PSCI 8366                        | AUTHORITARIAN REGIMES  |
| PSCI 8376                        | GENERALS AND POLITICIANS: CIVIL-MILITARY RELATIONS           |
| PSCI 8505                        | EUROPEAN POLITICS  |
| PSCI 8506                        | GOVERNMENT AND POLITICS OF GREAT BRITAIN                     |
| PSCI 8526                        | POLITICS OF FRANCE   |
| PSCI 8556                        | POLITICAL VIOLENCE, INSURGENCY, AND TERRORISM                |
| PSCI 8585                        | GOVERNMENT AND POLITICS OF RUSSIA AND THE POST-SOVIET STATES |
| PSCI 8626                        | ISLAM AND POLITICS   |
| PSCI 8645                        | GOVERNMENT AND POLITICS OF CHINA AND EAST ASIA               |
| PSCI 8665                        | GOVERNMENT AND POLITICS OF JAPAN AND EAST ASIA               |
| PSCI 8685                        | GOVERNMENT AND POLITICS OF LATIN AMERICA                     |
| PSCI 8705                        | GOVERNMENT AND POLITICS OF THE MIDDLE EAST                   |
| PSCI 8716                        | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION         |
| PSCI 8776                        | POLITICAL SOCIOLOGY  |
| PSCI 8900                        | READINGS IN POLITICAL SCIENCE                                |
| PSCI 8826                        | POLITICS AND FILM  |
| PSCI 8926                        | ADVANCED SPECIAL TOPICS IN POLITICAL SCIENCE                 |
| PSCI 8910                        | POLITICAL SCIENCE INTERNSHIP                                 |
| PSCI 8980                        | RESEARCH IN POLITICAL SCIENCE                                |
| PSCI 8990                        | THESIS (if approved by GPC)                                  |
| <b>Complete Exit Requirement</b> |  |
| PSCI 8950                        | GRADUATE PROGRAM COMPREHENSIVE ASSESSMENT                    |
| <b>Total Credits</b>             |  |

30

- Students must successfully complete PSCI 8000 within the first 15 credit hours/five courses of their program.
- A student who does not have sufficient background in one or more subfields may be required to take a provisional undergraduate course before taking its equivalent graduate seminar.
- Electives may be taken outside of the political science department with approval from the graduate chair. The course must be related to political science.
- Students who were undergraduate students at UNO cannot take a dual-listed course at the graduate level if they have already taken the course at the undergraduate level. For example, if they completed PSCI 4270/ENVN 4270 Global Environmental Politics as an undergraduate student, they cannot take PSCI 8276 Global Environmental Politics as part of their MS degree.
- Students may not count more than six credit hours of courses ending in 8-5 (for example, 8265) towards the completion of their degree.
- Any certificate must be added at least one semester prior to graduation.

## Exit Requirement

All students begin this program as a non-thesis student. Students who would like to complete a thesis may petition to do so after completing 15 credit hours, but at least one term before they plans on starting the thesis. To petition to change to the thesis track, a student must request an application from, and submit it to the academic advisor during the time specified above. The graduate chair will then evaluate whether a thesis track is the best option for the petitioning student. If denied, a student may appeal once in a following term by going through the same process. During a petition, the graduate program committee will review the application.

## Non-Thesis Exit Requirement: Comprehensive Exam/Essay

Graduating political science master's degree students will complete a written comprehensive essay synthesizing their knowledge of at least two political science subfields to answer one prompt. Passing answers must demonstrate proficiency in each of the four MS-PSCI student learning objectives: research methods, writing in the discipline, critical thinking and knowledge in the subfields.

Students must notify the graduate advisor at the beginning of their graduating term, and register for PSCI 8950. The essay is open book, open note. Students will have 72 hours to complete their essay(s).

Students must write their essay during the spring or fall semester of the year in which they graduate. Students graduating in the summer may write their essay the prior spring if they have 6 or fewer credit hours remaining to complete in the degree program to be taken over the summer term, AND they have completed at least three subfield seminars.

At the discretion of the GPC PSCI 8910 or PSCI 8980 may fulfill the exit requirement.

- If PSCI 8910 is approved as the exit requirement, students must have completed 15 credit hours. If a student completes an internship before completing 15 credit hours, it will count as an elective. To fulfill the exit requirement, enrollment in this course must be for three credit hours. Students wishing to complete an internship must first have approval from the PSCI internship coordinator, second be hired for the internship before the term, third create a reading list with a faculty member that aligns with their internship, fourth complete 150 hours of documented work, and fifth turn in an end-of-internship assignment incorporating their readings and documenting their experience to the internship coordinator. Students may not already work for the organization or company. See graduate advisor for more information and to start the approval process. Internships will be taken as pass/no pass.

## Notes on Courses

- Courses may not be available every term or may only be offered on-campus or online for said term.



- If PSCI 8980 is approved as the exit requirement, students will work with one faculty member on a political science-related topic of their choice and will produce a research-based product at the end of the term.

### Thesis Exit Requirement (6 credit hours)

PSCI 8990: The first term of thesis includes the forming of the thesis committee and approval of one's thesis proposal. The second three credit hours will focus on writing and defending the thesis.

Students must have a minimum of three voting committee members. All committee members must be graduate faculty members with a PhD and employed by UNO. One of the committee members must be from a non-political science field. Distance students may work with a faculty member outside of UNO, however, this member cannot be a voting member on the committee. Please refer to the graduate catalog's thesis guidelines for more detailed information.

Students must follow UNO's Graduate College's thesis submission guidelines and ensure that all paperwork has been submitted to the graduate office on time.

## Concentrations

### American Government and Politics Concentration

The American government and politics concentration is a 15 credit hour/5 course subset of the MS in political science program (MS-PSCI). If students wish to add this concentration onto their program, they must do so within the first 15 credit hours of their MS-PSCI program following the proper change-of-program procedures.

| Code   | Title                                       | Credits |
|--|---|---------|
| Required Seminar   |   | 3       |
| PSCI 8040  | SEMINAR IN AMERICAN GOVERNMENT AND POLITICS |         |
| Select one additional seminar from the following:                              |   | 3       |
| PSCI 8120  | SEMINAR IN LEADERSHIP                       |         |
| PSCI 8150  | SEMINAR IN CONSTITUTIONAL LAW               |         |
| Select three hours from the following:   |   | 3       |
| PSCI 8036  | THE PRESIDENCY                              |         |
| PSCI 8046  | CONGRESS AND THE LEGISLATIVE PROCESS        |         |
| PSCI 8056  | THE JUDICIAL PROCESS                        |         |
| PSCI 8146  | CONSTITUTIONAL LAW: CIVIL RIGHTS            |         |
| PSCI 8176  | CONSTITUTIONAL LAW: FOUNDATIONS             |         |
| PSCI 8186  | CONSTITUTIONAL LAW: THE FEDERAL SYSTEM      |         |
| PSCI 8196  | CONSTITUTIONAL LAW: CIVIL LIBERTIES         |         |
| Select six hours from the following or from an above seminar not already taken |   | 6       |
| PSCI 8005  | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE  |         |
| PSCI 8015  | URBAN POLITICS                              |         |
| PSCI 8045  | GOVERNMENT AND POLITICS OF NEBRASKA         |         |
| PSCI 8055  | STATE GOVERNMENT AND POLITICS               |         |
| PSCI 8105  | LGBTQ+ POLITICS                             |         |
| PSCI 8106  | MONEY IN AMERICAN POLITICS                  |         |
| PSCI 8116  | POLITICAL PSYCHOLOGY                        |         |
| PSCI 8126  | PUBLIC OPINION AND POLLING                  |         |
| PSCI 8135  | WOMEN AND POLITICS                          |         |
| PSCI 8145  | LATINO/-A POLITICS                          |         |
| PSCI 8165  | POLITICAL PARTIES                           |         |

|  |                                    |
|--|------------------------------------|
| PSCI 8175  | INTEREST GROUPS                    |
| PSCI 8185  | CAMPAIGNS AND ELECTIONS            |
| PSCI 8256  | INTELLIGENCE AND NATIONAL SECURITY |
| PSCI 8265  | UNITED STATES FOREIGN POLICY       |
| PSCI 8345  | AMERICAN POLITICAL THOUGHT         |
| PSCI 8346  | CONTEMPORARY POLITICAL THOUGHT     |
| PSCI 8356  | DEMOCRACY                          |
| PSCI 8776  | POLITICAL SOCIOLOGY                |
| Other American government-related courses may be approved by the Graduate Program Committee. |                                    |

**Total Credits**

**15**

### International Affairs Concentration

The international affairs concentration is a 15 credit hour/5 course subset of the MS in political science program. If students wish to add this concentration onto their program, they must do so within the first 15 credit hours of their MS-PSCI program following the proper change of program procedures.

| Code                              | Title  | Credits |
|-----------------------------------|--|---------|
| Required Seminars                 |  | 6       |
| PSCI 8250                         | SEMINAR IN INTERNATIONAL RELATIONS                 |         |
| PSCI 8500                         | SEMINAR IN COMPARATIVE POLITICS                    |         |
| Required: Three Elective Courses* |  | 9       |
| PSCI 8200                         | SEMINAR IN FOREIGN POLICY AND NATIONAL SECURITY    |         |
| PSCI 8206                         | INTERNATIONAL RELATIONS OF EAST ASIA               |         |
| PSCI 8216                         | INTERNATIONAL RELATIONS OF THE MIDDLE EAST         |         |
| PSCI 8220                         | SEMINAR ON INTERNATIONAL LEADERSHIP AND STRATEGY   |         |
| PSCI 8225                         | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING        |         |
| PSCI 8235                         | GENDER AND GLOBAL POLITICS                         |         |
| PSCI 8245                         | THE POLITICS AND PRACTICE OF HUMAN RIGHTS          |         |
| PSCI 8246                         | INTERNATIONAL CONFLICT RESOLUTION                  |         |
| PSCI 8255                         | GLOBAL SECURITY ISSUES                             |         |
| PSCI 8256                         | INTELLIGENCE AND NATIONAL SECURITY                 |         |
| PSCI 8265                         | UNITED STATES FOREIGN POLICY                       |         |
| PSCI 8266                         | INTERNATIONAL LAW                                  |         |
| PSCI 8276                         | GLOBAL ENVIRONMENTAL POLITICS                      |         |
| PSCI 8286                         | INTERNATIONAL RELATIONS OF LATIN AMERICA           |         |
| PSCI 8296                         | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY         |         |
| PSCI 8356                         | DEMOCRACY  |         |
| PSCI 8366                         | AUTHORITARIAN REGIMES                              |         |
| PSCI 8376                         | GENERALS AND POLITICIANS: CIVIL-MILITARY RELATIONS |         |
| PSCI 8505                         | EUROPEAN POLITICS                                  |         |
| PSCI 8506                         | GOVERNMENT AND POLITICS OF GREAT BRITAIN           |         |
| PSCI 8526                         | POLITICS OF FRANCE                                 |         |

|           |  |
|-----------|--|
| PSCI 8556 | POLITICAL VIOLENCE, INSURGENCY, AND TERRORISM                |
| PSCI 8585 | GOVERNMENT AND POLITICS OF RUSSIA AND THE POST-SOVIET STATES |
| PSCI 8626 | ISLAM AND POLITICS   |
| PSCI 8645 | GOVERNMENT AND POLITICS OF CHINA AND EAST ASIA               |
| PSCI 8646 | ASIAN POLITICS   |
| PSCI 8665 | GOVERNMENT AND POLITICS OF JAPAN AND EAST ASIA               |
| PSCI 8685 | GOVERNMENT AND POLITICS OF LATIN AMERICA                     |
| PSCI 8705 | GOVERNMENT AND POLITICS OF THE MIDDLE EAST                   |
| PSCI 8716 | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION         |

\*Other courses as approved by Graduate Chair.

**Total Credits** **15**

## Quantitative Analysis and Data Science in Political Science Concentration

**Code Title Credits**  
**3 credit hours from the following:** **3**

|           |   |
|-----------|---|
| PSCI 8040 | SEMINAR IN AMERICAN GOVERNMENT AND POLITICS <sup>1</sup>  |
| PSCI 8250 | SEMINAR IN INTERNATIONAL RELATIONS <sup>1</sup>   |
| PSCI 8500 | SEMINAR IN COMPARATIVE POLITICS <sup>1</sup>  |
| PSCI 8920 | SEMINAR IN SPECIAL TOPICS IN POLITICAL SCIENCE (3 hrs as approved by graduate chair) <sup>1</sup> |

**Statistical analysis tracks - Choose two electives from any one of the following menus:** **6**

Menu 1: On-line Basic <sup>2</sup>

|           |  |
|-----------|--|
| BIOS 806  | BIostatISTICS I (3 hrs) <sup>3</sup>                                     |
| BIOS 808  | BIostatISTICS II (3 hrs) <sup>3</sup>                                    |
| BIOS 810  | INTRODUCTION TO SAS (3 hrs) <sup>3</sup>                                 |
| CRCJ 8950 | STATISTICAL APPLICATIONS IN CRIMINAL JUSTICE & PUBLIC ADMIN <sup>1</sup> |

Menu 2: On-line Advanced <sup>4</sup>

|          |  |
|----------|--|
| BIOS 818 | BIostatistical METHODS II (3 hrs) <sup>3</sup> |
| BIOS 823 | CATEGORICAL DATA ANALYSIS (3 hrs) <sup>3</sup> |
| BIOS 824 | SURVIVAL DATA ANALYSIS (3 hrs) <sup>3</sup>    |
| BIOS 825 | CORRELATED DATA ANALYSIS (3 hrs) <sup>3</sup>  |

Menu 3: On-campus Basic <sup>2</sup>

|           |  |
|-----------|--|
| CRCJ 9080 | ADVANCED STATISTICAL APPLICATIONS          |
| PSCI 8005 | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE |
| PSYC 9010 | PROSEMINAR: STATISTICAL METHODS I          |
| PSYC 9020 | PROSEMINAR: STATISTICAL METHODS II         |
| PSYC 9090 | PSYCHOMETRIC THEORY                        |
| PSYC 9120 | MULTIVARIATE STATISTICAL ANALYSIS          |
| SOC 8040  | APPLIED DATA ANALYSIS & INTERPRETATION     |
| STAT 8005 | STATISTICAL METHODS I                      |

Menu 4: On-campus Advanced <sup>4</sup>

|           |                                       |
|-----------|---------------------------------------|
| ECON 8300 | ECONOMETRICS                          |
| ISQA 8156 | ADVANCED STATISTICAL METHODS FOR IS&T |

|   |  |
|---|--|
| ISQA 8160   | APPLIED DISTRIBUTION FREE STATISTICS                               |
| ISQA 8340   | APPLIED REGRESSION ANALYSIS  |
| STAT 8416   | INTRODUCTION TO DATA SCIENCE                                       |
| STAT 8426   | EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION                  |
| STAT 8436   | LINEAR MODELS  |
| STAT 8446   | TIME SERIES ANALYSIS   |
| STAT 8700   | BAYESIAN STATISTICS  |
| Or two statistics classes approved by the graduate program chair to count as quantitative electives                   |  |
| <b>Students will choose one of the following to learn about the specific topic and develop hypotheses and theory:</b> |  |
| PSCI 8900   | READINGS IN POLITICAL SCIENCE (or existing graduate seminar 3 hrs) |
| PSCI 8990   | THESIS (6 hours of thesis is required)                             |
| Alternative courses to be approved by graduate program chair.   |  |
| <b>Total Credits</b>  | <b>12</b>  |

<sup>1</sup> Offered on-line UNO

<sup>2</sup> The basic menu lists classes requiring no or few pre-requisites. For example, BIOS 806\*\* requires the student to have passed a statistics class in the last 5 years. CRCJ 8950\* has no pre-requisite. Please refer to the departments' course listings for more information.

<sup>3</sup> Offered on-line UNMC

<sup>4</sup> The advanced menu lists classes requiring that the student have passed at least one class in advanced math. For example, BIOS 818\*\* requires the student to have passed differential and integral calculus. Please refer to the departments' course listings for more information.

## Academic Progress Policy

Students may be dismissed from the program after:

1. Not enrolling and/or successfully completing a course after two consecutive years.
2. Earning three or more W grades.
3. Earning two or more grades of C+ or below.

Under extenuating circumstances, students may apply for a waiver through the GPC. If a waiver is granted, students may be updated to the most recent catalog year.

Students who do not successfully complete a course during their admit term, or allowed deferment time, will be dismissed from the program.

Students may reapply to the program if dismissed for inactivity.

## Incomplete Policy

The department will comply with the UNO's Incomplete Policy (<https://www.unomaha.edu/registrar/faculty-and-staff/grading/incomplete.php>).

In line with the UNO graduate policy on **incomplete grades**, the grade "I" is only to be issued due to a student's illness, military service, hardship, or death in the immediate family after the student has completed a substantial amount of the course. The professor reserves the right to use his/her discretion in determining additional situations where a grade of "I" may apply and what "substantial" means for that course. The student is expected to discuss this matter with the professor and create a plan of action towards the completion of the course in a timely manner. The professor also reserves the right to decide the consequences for a student who does not finish the course in the time agreed. Consequences may include, but are not limited to, an extended deadline, a permanent incomplete, or a failing grade for the course.

**In-progress grades (IP)** are only to be issued during the second part of a thesis project when a student is actively working towards its completion.

## Standing I/IP Grades

Students with an I/IP can have a maximum number of 9 'active' credit hours.

Students who have nine credit hours of I/IP grades (total from past terms), may not enroll in new courses. Students may start enrolling in new courses as they reduces their credit hours of I/IP grades. Any student with an I/IP cannot have more than 9 'active' credit hours at one time (includes current courses as well as I/IP grades).

| I/IP Credit Hours | New Credit Hour Allowance | Total 'Active' Credit Hour Load |
|-------------------|---------------------------|---------------------------------|
| 0                 | 9 (full time)             | 9                               |
| 3                 | 6                         | 9                               |
| 6                 | 3                         | 9                               |
| 9                 | 0                         | 9                               |

The graduate program chair reserves the right to waive this policy for a student, based on compelling circumstances.

## Academic Dishonesty Policy

Academic dishonesty is a violation of the student code of conduct and is cause for a student to be dismissed from the program. Graduate students are expected to know what counts as academic dishonesty (<https://www.unomaha.edu/student-life/student-conduct-and-community-standards/policies/academic-integrity.php>).

Instructors reserve the right to decide how to address issues of academic dishonesty in their courses. Students may be subject to (including, but not limited to): the failure on the specific assignment or failure of the entire course.

Faculty will report all instances of graduate student academic dishonesty to the Graduate Program Chair.

The student has the right to appeal this decision through the appropriate channels. Please see the student code of conduct for further information.

# Global Information Operations Certificate

The certificate in global information operations is a program designed to meet the need for a broad-based, interdisciplinary understanding of international cultures and related issues in today's global society by graduate students, active-duty military and civilian professionals working in the fields of public service, national security, defense policy and intelligence analysis. The program seeks to satisfy varying academic, career, and professional post graduate goals of traditional and non-traditional students that prepare them for their responsibility as active citizens through leadership, participation and employment in diverse environments throughout the nation and the world. At this point in time, this certificate is not offered for online students.

## Program Related Information

### Program Contact

casgradonline@unomaha.edu  
402.554.4121

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/political-science/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: Review begins October 1
- Summer 2026: Review begins April 15
- Fall 2026: Review begins February 15

Note: Applications will be received and reviewed until the term begins.

### Other Requirements

**For students applying to, or who are a current MS-PSCI student in good standing:**

- Minimum of 3.0 GPA

**For students applying for this certificate as a stand-alone program:**

- Baccalaureate degree or previous master's degree with a minimum of 3.0 GPA.
- Nine credit hours in relevant fields is preferred. Students without the necessary background may be admitted on a provisional basis and be required to take prerequisite courses before starting graduate work. Students must earn a grade of B or above in each of these courses.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80 (with no sub-score under 15), IELTS: 6.5, PTE: 53, Duolingo: 110
  - Passing with a minimum score does not guarantee admission into the program.
- **Statement of Purpose:** The personal statement should be 1-2 pages and address why you are seeking admission to this program, how your academic/professional experiences will contribute to your success in the program and how the program will contribute to your future academic/professional ambitions.
- **Professional Resume**
- **Letters of Recommendation:** Two letters of recommendation from a former professor (preferred), supervisor, or other professional contact who can speak to one's academic potential in a graduate program. If applicants have recently graduated from UNO, it is expected that one of the letters will be from a UNO political science faculty member. It is preferred that applicants use their references' institutional (.edu) or professional email.
- GRE scores are not required for admission, but students are welcome to include them.
- Any certificate must be added at least one semester prior to graduation.

## Degree Requirements

| Code                                      | Title   | Credits   |
|---|---|-----------|
| <b>Required Courses</b>                   |   | <b>9</b>  |
| CSCI/CYBR 8366                            | PRINCIPLES OF SECURE SYSTEM DESIGN              |           |
| PSCI 8256                                 | INTELLIGENCE AND NATIONAL SECURITY <sup>1</sup> |           |
| RELI 8900                                 | READINGS IN RELIGION                            |           |
| <b>Select 3 hours from the following:</b> |   | <b>3</b>  |
| ISQA 8420                                 | MANAGING THE I.S. FUNCTION                      |           |
| ISQA 8380                                 | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION |           |
| ISQA/CYBR 8570                            | INFORMATION SECURITY POLICY AND ETHICS          |           |
| PSCI 8200                                 | SEMINAR IN FOREIGN POLICY AND NATIONAL SECURITY |           |
| PSCI 8250                                 | SEMINAR IN INTERNATIONAL RELATIONS              |           |
| <b>Total Credits</b>                      |   | <b>12</b> |

Note: Students who took undergraduate courses at UNO may not take cross-listed courses they took at the 3000-4000 level at the 8000 level.

Students may be required to take prerequisite courses before their ISQA, CYBR, PSCI, and/or RELI graduate courses. Such requirements are to be determined by the specific department in question.

## Exit Requirements

Students must earn a 3.0 GPA to graduate with this certificate.

## Academic Progress Policy

Students may be dismissed from the program after:

1. Not enrolling and/or successfully completing a course after two consecutive years.
2. Earning two or more W grades.
3. Earning more than one grade of C+ or below even if GPA is a 3.0 or above.

Under extenuating circumstances, students may apply for a waiver through the GPC. If a waiver is granted, students may be updated to the most recent catalog year.

Students who do not successfully complete a course during their admit term, or allowed deferment time, will be dismissed from the program.

Students may reapply to the program if dismissed for inactivity.

## Government Certificate

UNO's Department of Political Science offers an 18 credit hour graduate certificate in government for educators and other professionals who already have an advanced degree in another field and wish to expand their knowledge in political science. This certificate is designed to help educators meet the new requirements set by the Higher Learning Commission to teach government-related courses in institutions of higher education or dual enrollment/concurrent enrollment courses in high schools. This certificate can be earned completely online. This certificate can be earned as a stand-alone program, or in conjunction with the MS in political science.

## Program Related Information

### Program Contact

casgradonline@unomaha.edu

402.554.4121

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/political-science/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: Review begins October 1
- Summer 2026: Review begins April 15
- Fall 2026: Review begins February 15

Note: Applications will be received and reviewed until the term begins.

## Other Requirements

**For current students in good standing in UNO's Master of Science in political science program:**

- Minimum GPA of 3.0
- Students must be accepted into this certificate program within their first 15 credit hours. Students starting this program after 15 credit hours may not be able to count previous completed coursework towards this certificate.

**For students applying for this certificate as a stand-alone program:**

- Baccalaureate degree or previous master's degree with a minimum of 3.0 GPA.
- **Nine credit hours in political science-related courses is preferred:** The selection committee looks for previous coursework and/or professional experience in American government, political theory, international relations, comparative politics, and social science (quantitative) methodology. Students without the noted background may be admitted on a provisional basis and be required to take prerequisite courses before starting graduate work. Students must earn a grade of B or above in each of these courses.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80 (with no sub-score under 15), IELTS: 6.5, PTE: 53, Duolingo: 110
  - Passing with a minimum score does not guarantee admission into the program.
- **Statement of Purpose:** The personal statement should be 1-2 pages and address why you are seeking admission to this program, how your academic/professional experiences will contribute to your success in the program, and how the program will contribute to your future academic/professional ambitions.
- **Professional Resume**
- **Letters of Recommendation:** Two letters of recommendation from a former professor (preferred), supervisor, or other professional contact who can speak to one's academic potential in a graduate program. If applicants have recently graduated from UNO, it is expected that one of the letters will be from a UNO political science faculty member. It is preferred that applicants use their references' institutional (.edu) or professional email.

- GRE scores are not required for admission, however, candidates may include them.
- Any certificate must be added at least one semester prior to graduation.

## Degree Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>Required: Two Subfield Seminars</b>   |  | <b>6</b>  |
| PSCI 8040  | SEMINAR IN AMERICAN GOVERNMENT AND POLITICS          |           |
| PSCI 8250  | SEMINAR IN INTERNATIONAL RELATIONS                   |           |
| PSCI 8300  | SEMINAR IN POLITICAL THEORY                          |           |
| PSCI 8500  | SEMINAR IN COMPARATIVE POLITICS                      |           |
| <b>Required: Four Electives (selected from remaining seminars or list below)</b> |  | <b>12</b> |
| PSCI 8000  | SEMINAR IN THE RESEARCH METHODS IN POLITICAL SCIENCE |           |
| PSCI 8005  | QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE           |           |
| PSCI 8015  | URBAN POLITICS                                       |           |
| PSCI 8106  | MONEY IN AMERICAN POLITICS                           |           |
| PSCI 8036  | THE PRESIDENCY                                       |           |
| PSCI 8045  | GOVERNMENT AND POLITICS OF NEBRASKA                  |           |
| PSCI 8046  | CONGRESS AND THE LEGISLATIVE PROCESS                 |           |
| PSCI 8055  | STATE GOVERNMENT AND POLITICS                        |           |
| PSCI 8056  | THE JUDICIAL PROCESS                                 |           |
| PSCI 8100  | SEMINAR IN POLITICAL ECONOMY                         |           |
| PSCI 8105  | LGBTQ+ POLITICS                                      |           |
| PSCI 8116  | POLITICAL PSYCHOLOGY                                 |           |
| PSCI 8120  | SEMINAR IN LEADERSHIP                                |           |
| PSCI 8126  | PUBLIC OPINION AND POLLING                           |           |
| PSCI 8135  | WOMEN AND POLITICS                                   |           |
| PSCI 8145  | LATINO/-A POLITICS                                   |           |
| PSCI 8146  | CONSTITUTIONAL LAW: CIVIL RIGHTS                     |           |
| PSCI 8150  | SEMINAR IN CONSTITUTIONAL LAW                        |           |
| PSCI 8165  | POLITICAL PARTIES                                    |           |
| PSCI 8175  | INTEREST GROUPS                                      |           |
| PSCI 8176  | CONSTITUTIONAL LAW: FOUNDATIONS                      |           |
| PSCI 8185  | CAMPAIGNS AND ELECTIONS                              |           |
| PSCI 8186  | CONSTITUTIONAL LAW: THE FEDERAL SYSTEM               |           |
| PSCI 8196  | CONSTITUTIONAL LAW: CIVIL LIBERTIES                  |           |
| PSCI 8200  | SEMINAR IN FOREIGN POLICY AND NATIONAL SECURITY      |           |
| PSCI 8206  | INTERNATIONAL RELATIONS OF EAST ASIA                 |           |
| PSCI 8216  | INTERNATIONAL RELATIONS OF THE MIDDLE EAST           |           |
| PSCI 8220  | SEMINAR ON INTERNATIONAL LEADERSHIP AND STRATEGY     |           |
| PSCI 8225  | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING          |           |
| PSCI 8235  | GENDER AND GLOBAL POLITICS                           |           |
| PSCI 8245  | THE POLITICS AND PRACTICE OF HUMAN RIGHTS            |           |

|           |  |
|-----------|--|
| PSCI 8246 | INTERNATIONAL CONFLICT RESOLUTION                            |
| PSCI 8255 | GLOBAL SECURITY ISSUES                                       |
| PSCI 8256 | INTELLIGENCE AND NATIONAL SECURITY                           |
| PSCI 8265 | UNITED STATES FOREIGN POLICY                                 |
| PSCI 8266 | INTERNATIONAL LAW  |
| PSCI 8276 | GLOBAL ENVIRONMENTAL POLITICS                                |
| PSCI 8286 | INTERNATIONAL RELATIONS OF LATIN AMERICA                     |
| PSCI 8296 | INTERNATIONAL DEVELOPMENT & SUSTAINABILITY                   |
| PSCI 8316 | CLASSICAL POLITICAL THOUGHT                                  |
| PSCI 8326 | EARLY MODERN POLITICAL THOUGHT                               |
| PSCI 8336 | LATE MODERN POLITICAL THOUGHT                                |
| PSCI 8345 | AMERICAN POLITICAL THOUGHT                                   |
| PSCI 8346 | CONTEMPORARY POLITICAL THOUGHT                               |
| PSCI 8356 | DEMOCRACY  |
| PSCI 8366 | AUTHORITARIAN REGIMES  |
| PSCI 8376 | GENERALS AND POLITICIANS: CIVIL-MILITARY RELATIONS           |
| PSCI 8505 | EUROPEAN POLITICS  |
| PSCI 8506 | GOVERNMENT AND POLITICS OF GREAT BRITAIN                     |
| PSCI 8526 | POLITICS OF FRANCE   |
| PSCI 8556 | POLITICAL VIOLENCE, INSURGENCY, AND TERRORISM                |
| PSCI 8585 | GOVERNMENT AND POLITICS OF RUSSIA AND THE POST-SOVIET STATES |
| PSCI 8626 | ISLAM AND POLITICS   |
| PSCI 8645 | GOVERNMENT AND POLITICS OF CHINA AND EAST ASIA               |
| PSCI 8646 | ASIAN POLITICS   |
| PSCI 8665 | GOVERNMENT AND POLITICS OF JAPAN AND EAST ASIA               |
| PSCI 8685 | GOVERNMENT AND POLITICS OF LATIN AMERICA                     |
| PSCI 8705 | GOVERNMENT AND POLITICS OF THE MIDDLE EAST                   |
| PSCI 8716 | COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION         |
| PSCI 8776 | POLITICAL SOCIOLOGY  |
| PSCI 8826 | POLITICS AND FILM  |
| PSCI 8920 | SEMINAR IN SPECIAL TOPICS IN POLITICAL SCIENCE               |
| PSCI 8926 | ADVANCED SPECIAL TOPICS IN POLITICAL SCIENCE                 |

**Total Credits** **18**

Note: Students who took undergraduate courses at UNO cannot take any dual-listed courses at the graduate level they took as an undergraduate. Students cannot have more than two courses ending in 8-5 counted towards their program. Other courses may be approved at the discretion of the graduate chair.

Courses may not be offered every term. Some courses may only be offered online or on-campus.



## Exit Requirements

Students must earn a 3.0 GPA or above to graduate with no more than one course graded as a C+ or below.

## Academic Progress Policy

Students may be dismissed from the program after:

1. Not enrolling and/or successfully completing a course after two consecutive years.
2. Earning two or more W grades.
3. Earning more than one grade of C+ or below, even if GPA is a 3.0 or above.

Under extenuating circumstances, students may apply for a waiver through the GPC. If a waiver is granted, students may be updated to the most recent catalog year.

Students who do not successfully complete a course during their admit term, or allowed deferment time, will be dismissed from the program.

Students may reapply to the program if dismissed for inactivity.

## Intelligence and National Security Certificate

The intelligence and national security certificate is a 15 credit hour program designed to meet the need for an in-depth and critical analysis of US foreign policy and national security by graduate students, active duty military, and civilian professionals working in the fields of public service, national security, defense policy, and intelligence analysis. The program of study seeks to satisfy varying academic, career, and personal post-graduate goals of traditional and non-traditional students that prepare them for their responsibility as active citizens through leadership, participation and employment in intelligence, military, and foreign relations careers. This certificate can be earned completely online. This certificate can be earned independently of the MS in political science or in conjunction with it.

## Program Related Information

### Program Contact

casgradonline@unomaha.edu  
402.554.4121

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/political-science/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: Review begins October 1
- Summer 2026: Review begins April 15
- Fall 2026: Review begins February 15

Note: Applications will be received and reviewed until the term begins.

### Other Requirements

**For students applying to, or who are a current MS-PSCI student in good standing:**

- 3.0 GPA (most recent GPA)
- Students must be accepted into this certificate program within their first 15 credit hours. Students starting this program after 15 credit hours may not be able to count previous completed coursework towards this certificate.

**For students applying for this certificate as a stand-alone program:**

- Baccalaureate degree or previous master's degree with a minimum of 3.0 GPA.
- Nine credit hours in political science-related courses is preferred. The selection committee looks for previous coursework and/or professional experience in American government, political theory, international relations, comparative politics, and social science (quantitative) methodology. Students without the noted background may be admitted on a provisional basis and be required to take prerequisite courses before starting graduate work. Students must earn a grade of B or above in each of these courses.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80 (with no sub-score under 15 is required), IELTS: 6.5, PTE: 53, Duolingo: 110
  - Passing with a minimum score does not guarantee admission into the program.
- **Statement of Purpose:** The personal statement should be 1-2 pages and address why you are seeking admission to this program, how your academic/professional experiences will contribute to your success in the program, and how the program will contribute to your future academic/professional ambitions.
- **Professional Resume**
- **Letters of Recommendation:** Two letters of recommendation from a former professor (preferred), supervisor, or other professional contact who can speak to one's academic potential in a graduate program. If applicants have recently graduated from UNO, it is expected that one of the letters will be from a UNO political science faculty member. It is preferred that students use their references' institutional (.edu) or professional email.
- GRE scores are not required for admission, however, candidates are welcome to include them.
- Any certificate must be added at least one semester prior to graduation.

## Degree Requirements

| Code  | Title   | Credits  |
|---|---|----------|
| <b>Required Seminars</b>                    |   | <b>6</b> |
| PSCI 8200                                   | SEMINAR IN FOREIGN POLICY AND NATIONAL SECURITY |          |
| PSCI 8250                                   | SEMINAR IN INTERNATIONAL RELATIONS              |          |
| <b>Electives-Select from the following:</b> |   | <b>9</b> |
| PSCI 8206                                   | INTERNATIONAL RELATIONS OF EAST ASIA            |          |
| PSCI 8216                                   | INTERNATIONAL RELATIONS OF THE MIDDLE EAST      |          |

|           |  |
|-----------|--|
| PSCI 8220 | SEMINAR ON INTERNATIONAL LEADERSHIP AND STRATEGY             |
| PSCI 8225 | DIPLOMACY AND INTERNATIONAL PROBLEM SOLVING                  |
| PSCI 8245 | THE POLITICS AND PRACTICE OF HUMAN RIGHTS                    |
| PSCI 8246 | INTERNATIONAL CONFLICT RESOLUTION                            |
| PSCI 8255 | GLOBAL SECURITY ISSUES                                       |
| PSCI 8256 | INTELLIGENCE AND NATIONAL SECURITY                           |
| PSCI 8265 | UNITED STATES FOREIGN POLICY                                 |
| PSCI 8266 | INTERNATIONAL LAW  |
| PSCI 8286 | INTERNATIONAL RELATIONS OF LATIN AMERICA                     |
| PSCI 8366 | AUTHORITARIAN REGIMES  |
| PSCI 8376 | GENERALS AND POLITICIANS: CIVIL-MILITARY RELATIONS           |
| PSCI 8505 | EUROPEAN POLITICS  |
| PSCI 8506 | GOVERNMENT AND POLITICS OF GREAT BRITAIN                     |
| PSCI 8526 | POLITICS OF FRANCE   |
| PSCI 8556 | POLITICAL VIOLENCE, INSURGENCY, AND TERRORISM                |
| PSCI 8585 | GOVERNMENT AND POLITICS OF RUSSIA AND THE POST-SOVIET STATES |
| PSCI 8645 | GOVERNMENT AND POLITICS OF CHINA AND EAST ASIA               |
| PSCI 8646 | ASIAN POLITICS   |
| PSCI 8665 | GOVERNMENT AND POLITICS OF JAPAN AND EAST ASIA               |
| PSCI 8685 | GOVERNMENT AND POLITICS OF LATIN AMERICA                     |
| PSCI 8705 | GOVERNMENT AND POLITICS OF THE MIDDLE EAST                   |

**Total Credits****15**

Note: Students who took undergraduate courses at UNO cannot take any dual-listed courses at the graduate level they took as an undergraduate. Students cannot have more than two courses ending in 8-5 counted toward their program. Other courses may be approved at the discretion of the graduate chair.

Courses may not be offered every term. Some terms courses may only be offered online or on-campus.

**Exit Requirement**

Students must earn a 3.0 GPA to graduate with no more than one course graded as a C+ or below.

**Academic Progress Policy**

Students may be dismissed from the program after:

1. Not enrolling and/or successfully completing a course after two consecutive years.
2. Earning two or more W grades.
3. Earning more than one grade of C+ or below, even if GPA is a 3.0 or above.

Under extenuating circumstances, students may apply for a waiver through the GPC. If a waiver is granted, students may be updated to the most recent catalog year.

Students who do not successfully complete a course during their admit term, or allowed deferment time, will be dismissed from the program.

Students may reapply to the program if dismissed for inactivity.

## Psychology

### Degree Programs Offered

- Psychology, MA (p. 1152)
- Psychology, PhD (p. 1155)
- Industrial/Organizational Psychology, MS (p. 1157)
- School Psychology, MS (p. 1159)
- School Psychology, EdS (p. 1158)
- Applied Behavior Analysis, MS (p. 1160)

### Certificates Offered

- Human Resources and Training Certificate (p. 1039)

## Psychology, MA

The Master of Arts in psychology is designed to give students a broad background in the field of psychology plus a sufficient degree of specialization to prepare them for either careers or further graduate training.

### Program Related Information

#### Program Contact

unopsycgrad@unomaha.edu  
402.554.2581

**Program Website (<http://www.unomaha.edu/psych/>)**

#### Fast Track

The Department of Psychology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BS in neuroscience desiring to pursue a MA in psychology
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.2.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.

- The admit term must be after the completion term of the undergraduate degree.

Special Note: Eligible undergraduate students may enroll in any dual level psychology or neuroscience course (PSYC 8xx6 or NEUR 8xx6).

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Fall 2026: January 10

## Other Requirements

- Baccalaureate degree with a minimum of 3.0 GPA.
- A minimum of 15 undergraduate semester hours (or the equivalent) of psychology courses including: basic statistics and an upper level laboratory course, independent research, or equivalent, emphasizing the experimental method, data collection, statistical analysis, and report writing are required.
- **Entrance Exam:** Graduate Record Examination (GRE)
  - GRE scores are OPTIONAL for those applying to the psychology MA program. All applications will be reviewed whether or not GRE scores are included.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose**
- **Writing Sample** (preferred APA style)
- **Resume**
- **Letters of Recommendation:** Three letters of recommendation from professors and individuals who can speak to applicant's potential for success in a graduate program are required.

## Degree Requirements

Student must select an area of concentration.

## Required Course

| Code      | Title                        | Credits |
|-----------|------------------------------|---------|
| PSYC 8000 | THE PROFESSION OF PSYCHOLOGY | 0       |

Total number of required credits is determined by the area of concentration completed.

## Other Requirements Needed for a Student to Complete the Program

Obtaining a score of at least 600 on the Advanced Psychology Test of the GRE. (NOTE: not required for the neuroscience & behavior, developmental, cognitive areas of concentration).

## Total Credit Hours: 30-37

## Concentrations

### Cognitive Concentration (Thesis Option 30 hours)

| Code   | Title                                      | Credits   |
|--|--|-----------|
| <b>Required Cognitive Concentration Proseminar Courses</b> |  |           |
| PSYC 9010  | PROSEMINAR: STATISTICAL METHODS I          | 3         |
| PSYC 9020  | PROSEMINAR: STATISTICAL METHODS II         | 3         |
| PSYC 9070  | PROSEMINAR: COGNITIVE PSYCHOLOGY           | 3         |
| PSYC 9230  | PROSEMINAR: BEHAVIORAL NEUROSCIENCE        | 3         |
| PSYC 9560  | PROSEMINAR: DEVELOPMENTAL PSYCHOLOGY       | 3         |
| <b>Advanced Cognitive Courses</b>                          |  |           |
| Select three of the following:                             |  | 9         |
| PSYC 8526  | PSYCHOLOGY OF LANGUAGE                     |           |
| PSYC 9040  | PROSEMINAR LEARNING                        |           |
| PSYC 9120  | MULTIVARIATE STATISTICAL ANALYSIS          |           |
| PSYC 9530  | COGNITIVE DEVELOPMENT                      |           |
| PSYC 9910  | TOPICAL SEMINAR IN PSYCHOLOGY <sup>1</sup> |           |
| PSYC 8990  | THESIS                                     | 6         |
| <b>Total Credits</b>                                       |  | <b>30</b> |

<sup>1</sup> PSYC 9910: (Cognitive topic)

### Exit Requirements

- Comprehensive Examination
- Thesis
  - All candidates should carefully review the Graduate College requirements for forming the Supervisory Committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval of a thesis and final submission of the thesis.

## Developmental Concentration (31-37 hours)

### Plan A (Thesis Option 31 hours)

Plan A is recommended for students who plan to pursue a PhD and/or who wish to complete an independent research project (the thesis).

**This plan requires completion of a minimum of 31 credit hours, as listed below:**

| Code   | Title  | Credits |
|--|--|---------|
| PSYC 9010  | PROSEMINAR: STATISTICAL METHODS I                | 3       |
| PSYC 9020  | PROSEMINAR: STATISTICAL METHODS II               | 3       |
| PSYC 9560  | PROSEMINAR: DEVELOPMENTAL PSYCHOLOGY             | 3       |
| PSYC 9650  | RESEARCH METHODS IN PSYCHOLOGY                   | 3       |
| PSYC 9960  | RESEARCH OTHER THAN THESIS <sup>1</sup>          | 1       |
| <b>Developmental Concentration Courses</b>           |  |         |
| Select two of the following:                         |  | 6       |
| PSYC 9070  | PROSEMINAR: COGNITIVE PSYCHOLOGY <sup>2</sup>    |         |
| PSYC 9230  | PROSEMINAR: BEHAVIORAL NEUROSCIENCE <sup>2</sup> |         |
| PSYC 9430  | PROSEMINAR: PERSONALITY                          |         |
| PSYC 9440  | PROSEMINAR: SOCIAL PSYCHOLOGY                    |         |
| <b>Advanced Developmental Concentration Seminars</b> |  |         |
| Select two of the following:                         |  | 6       |

|               |  |    |
|---------------|--|----|
| PSYC 9500     | SOCIOEMOTIONAL DEVELOPMENT                   |    |
| PSYC 9510     | RESEARCH METHODS IN DEVELOPMENTAL PSYCHOLOGY |    |
| PSYC 9530     | COGNITIVE DEVELOPMENT                        |    |
| PSYC 9550     | PSYCHOSOCIAL DEVELOPMENT                     |    |
| PSYC 8990     | THESIS                                       | 6  |
| Total Credits |  | 31 |

<sup>1</sup> PSYC 9960: (1-6 credit hours)

<sup>2</sup> Note you must take either PSYC 9070 or PSYC 9230 as one of the options.

### Plan B (Non-Thesis Option 37 hours)

Plan B is recommended for students who plan to work in an applied setting involving children and/or families and who do not plan to pursue a PhD. This plan requires completion of a minimum of 37 credit hours. In addition to required course work, students choose 3 elective courses (within or outside the Department of Psychology).

**Instead of a thesis, students complete two applied practica (6 credit hours).**

| Code      | Title                                   | Credits |
|-----------|---|---------|
| PSYC 9560 | PROSEMINAR: DEVELOPMENTAL PSYCHOLOGY    | 3       |
| PSYC 9650 | RESEARCH METHODS IN PSYCHOLOGY          | 3       |
| PSYC 9960 | RESEARCH OTHER THAN THESIS <sup>1</sup> | 1       |

#### Statistics Course

|              |                                    |   |
|--------------|------------------------------------|---|
| PSYC 9010    | PROSEMINAR: STATISTICAL METHODS I  | 3 |
| or PSYC 9020 | PROSEMINAR: STATISTICAL METHODS II |   |

#### Developmental Concentration Proseminars

Select two of the following: 6

|           |                                     |  |
|-----------|-------------------------------------|--|
| PSYC 9070 | PROSEMINAR: COGNITIVE PSYCHOLOGY    |  |
| PSYC 9230 | PROSEMINAR: BEHAVIORAL NEUROSCIENCE |  |
| PSYC 9430 | PROSEMINAR: PERSONALITY             |  |
| PSYC 9440 | PROSEMINAR: SOCIAL PSYCHOLOGY       |  |

#### Advanced Developmental Concentration Seminars

Select two of the following: 6

|           |  |  |
|-----------|--|--|
| PSYC 9500 | SOCIOEMOTIONAL DEVELOPMENT                   |  |
| PSYC 9510 | RESEARCH METHODS IN DEVELOPMENTAL PSYCHOLOGY |  |
| PSYC 9530 | COGNITIVE DEVELOPMENT                        |  |
| PSYC 9550 | PSYCHOSOCIAL DEVELOPMENT                     |  |

#### Developmental Concentration Electives

Select three of the following: 9

|           |   |  |
|-----------|---|--|
| PSYC 8250 | FAMILY ANALYSIS AND TREATMENT               |  |
| PSYC 8316 | PSYCHOLOGICAL AND EDUCATIONAL TESTING       |  |
| PSYC 8590 | PSYCHOLOGY OF EXCEPTIONAL CHILDREN          |  |
| PSYC 9090 | PSYCHOMETRIC THEORY                         |  |
| PSYC 9320 | SEMINAR IN PROGRAM EVALUATION               |  |
| PSYC 9570 | CONCEPTUAL FOUNDATIONS OF BEHAVIOR ANALYSIS |  |

#### Additional Course

Select an additional course outside the Department of Psychology (e.g., SOWK, SOC, SPED, GERO, CRCJ, COUN, and PA).

|                      |  |           |
|----------------------|--|-----------|
| PSYC 8980            | PRACTICUM IN DEVELOPMENTAL PSYCHOLOGY <sup>2</sup> | 6         |
| <b>Total Credits</b> |  | <b>37</b> |

<sup>1</sup> PSYC 9960: (1-6 credit hours)

<sup>2</sup> PSYC 8980: (6 credit hours)

### Exit Requirements

- Comprehensive Examination
- Thesis
  - All candidates should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval of a thesis and final submission of the thesis.

### Industrial Organizational Concentration (Thesis Option 36 hours)

| Code   | Title | Credits |
|--|-------|---------|
| <b>Required Industrial Organizational Concentration Proseminar Courses</b> |       |         |

|           |                                    |   |
|-----------|------------------------------------|---|
| PSYC 9010 | PROSEMINAR: STATISTICAL METHODS I  | 3 |
| PSYC 9020 | PROSEMINAR: STATISTICAL METHODS II | 3 |
| PSYC 9440 | PROSEMINAR: SOCIAL PSYCHOLOGY      | 3 |

#### Proseminar Required Course

Select one of the following: 3

|           |                                     |  |
|-----------|-------------------------------------|--|
| PSYC 9040 | PROSEMINAR LEARNING                 |  |
| PSYC 9070 | PROSEMINAR: COGNITIVE PSYCHOLOGY    |  |
| PSYC 9230 | PROSEMINAR: BEHAVIORAL NEUROSCIENCE |  |
| PSYC 9240 | PROSEMINAR: EVOLUTIONARY PSYCHOLOGY |  |

#### Breadth Requirement

Select one additional course from list provided by area. 3

#### Industrial Organizational Core Course

Select one of the following: 3

|           |   |  |
|-----------|---|--|
| PSYC 9610 | MOTIVATION & MORALE                             |  |
| PSYC 9620 | TRAINING AND DEVELOPMENT                        |  |
| PSYC 9630 | LEADERSHIP THEORIES AND RESEARCH                |  |
| PSYC 9660 | CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL |  |
| PSYC 9670 | PERSONNEL SELECTION                             |  |
| PSYC 9680 | GROUPS AND TEAMS                                |  |

#### Additional Required Industrial Organizational Courses

|           |                                |   |
|-----------|--------------------------------|---|
| PSYC 8636 | ORGANIZATIONAL PSYCHOLOGY      | 3 |
| PSYC 8646 | PERSONNEL PSYCHOLOGY           | 3 |
| PSYC 9090 | PSYCHOMETRIC THEORY            | 3 |
| PSYC 9650 | RESEARCH METHODS IN PSYCHOLOGY | 3 |
| PSYC 8990 | THESIS                         | 6 |

**Total Credits 36**

Students who were undergraduate students at UNO cannot take a dual-listed course at the graduate level if they have already taken the course at the undergraduate level.

### Exit Requirements

- Comprehensive Examination
- Thesis
  - All candidates should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis

Equivalent Proposal Approval forms and final approval of a thesis and final submission of the thesis.

## Neuroscience and Behavior Concentration (Thesis Option 30 hours)

| Code  | Title                                | Credits   |
|---|--------------------------------------|-----------|
| <b>Required Neuroscience and Behavior Courses</b>   |                                      |           |
| PSYC 9010   | PROSEMINAR: STATISTICAL METHODS I    | 3         |
| PSYC 9020   | PROSEMINAR: STATISTICAL METHODS II   | 3         |
| <b>Group I Proseminar</b>   |                                      | <b>3</b>  |
| PSYC 9040   | PROSEMINAR LEARNING                  |           |
| PSYC 9070   | PROSEMINAR: COGNITIVE PSYCHOLOGY     |           |
| PSYC 9230   | PROSEMINAR: BEHAVIORAL NEUROSCIENCE  |           |
| PSYC 9240   | PROSEMINAR: EVOLUTIONARY PSYCHOLOGY  |           |
| <b>Group II Proseminar</b>  |                                      |           |
| Select one of the following:  |                                      | 3         |
| PSYC 9430   | PROSEMINAR: PERSONALITY              |           |
| PSYC 9440   | PROSEMINAR: SOCIAL PSYCHOLOGY        |           |
| PSYC 9560   | PROSEMINAR: DEVELOPMENTAL PSYCHOLOGY |           |
| <b>Breadth Requirement</b>  |                                      |           |
| Breadth requirement in Psychology. From a list of approved courses provided by the area.  |                                      | 3         |
| <b>Neuroscience and Behavior Field-related Electives</b>  |                                      |           |
| To be determined in consultation with your graduate advisor, approved GBCA (UNMC) allowed, may be PSYC, BIOL, or NEUR 8- or 9- courses EXCEPT the following:      |                                      | 3         |
| PSYC 8990   | THESIS                               |           |
| PSYC 9960   | RESEARCH OTHER THAN THESIS           |           |
| <b>Neuroscience and Behavior Electives</b>  |                                      |           |
| To be determined in consultation with your graduate advisor; approved GBCA (UNMC) allowed, may be PSYC, BIOL, or NEUR 8- or 9-level courses EXCEPT the following: |                                      | 6         |
| PSYC 8990   | THESIS                               | 6         |
| <b>Total Credits</b>  |                                      | <b>30</b> |

## Exit Requirements

- Comprehensive Examination - at least one of the following
  - Submission of a national funding agency proposal
  - Manuscript submitted to peer-reviewed journal
  - Co-author of a poster or presentation at a national conference or first author at a regional conference
- Thesis
  - All candidates should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval of a thesis and final submission of the thesis.
  - Oral and written thesis defense; public presentation of thesis

## Special Performance Quality Rule

If at any time a grade of "C", (2.0 on a 4.0 scale) in graduate courses become a matter of record, a graduate student in the Department of Psychology will be placed on probation. An unexcused grade of "W" in a proseminar course will be considered equivalent to a grade of "C" for purposes of this policy. An excused "W" must be approved by the chair of the Department of Psychology. Students placed on this probation will forfeit any departmental graduate assistantship they may have and any approved programs of study will be subject to re-evaluation and change. Before registering for additional courses, a student placed on probation

must, with the assistance and approval of his/her advisor, submit a plan for remediation of his/her academic problems, and have that plan approved by the Graduate Program Committee (GPC). The GPC will review and, if appropriate, modify the plan. Further, any enrollment in graduate courses must be approved by the GPC. The student will remain on probation until the GPC approves termination of probation status. If a student earns a second "C", the student will be dismissed from the program and the GPC will work to come up with a plan, and evaluate if it is possible for the student to return to the program at some point.

## Psychology, PhD

The PhD program in psychology prepares students for applied, research, or teaching positions in the areas of developmental psychology, industrial/organizational psychology and neuroscience and behavior.

## Program Related Information

### Program Contact

unopsycgrad@unomaha.edu  
402.554.2581

**Program Website** (<http://www.unomaha.edu/psych/>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Fall 2026: January 10

### Other Requirements

- **Entrance Exam:** Graduate Record Examination (GRE)
  - GRE scores are OPTIONAL for those applying to the PhD Program. All applications will be reviewed whether or not GRE scores are included.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- **Statement of Purpose**
- **Writing Sample** (preferred APA style)
- **Resume**

- **Letters of Recommendation:** Three letters of recommendation are required from professors and individuals who can speak to the applicant's potential for success in a graduate program.

## Degree Requirements Concentrations

Student must select an area of concentration.

Students have ten (10) years to complete the PhD in Psychology from the time of filing a program of study.



**Total Credit Hours: 90****Concentrations****Industrial/Organizational Psychology Concentration**

Noted courses are required as part of our MA concentration in industrial/organizational psychology. These courses or their equivalent will be required for students who have earned their MA from another institution.

| Code  | Title  | Credits |
|---|--|---------|
| <b>General Psychology Courses</b>   |  |         |
| <b>Included in MA concentration in industrial/organization psychology</b> |  |         |
| (Required)  |  |         |
| PSYC 9440   | PROSEMINAR: SOCIAL PSYCHOLOGY  | 3       |
| Select one of the following:  |  | 3       |
| PSYC 9040   | PROSEMINAR LEARNING  |         |
| PSYC 9070   | PROSEMINAR: COGNITIVE PSYCHOLOGY                                     |         |
| PSYC 9230   | PROSEMINAR: BEHAVIORAL NEUROSCIENCE                                  |         |
| PSYC 9240   | PROSEMINAR: EVOLUTIONARY PSYCHOLOGY                                  |         |
| <b>Included in MA concentration in industrial/organization psychology</b> |  |         |
| <b>Breadth Requirement</b>  |  |         |
| From list provided by area  |  |         |
| <b>Included in MA concentration in industrial/organization psychology</b> |  |         |
| PSYC 8000   | THE PROFESSION OF PSYCHOLOGY <sup>1</sup>                            | 0       |
| <b>Statistics and Methods Courses</b>                                     |  |         |
| PSYC 9120   | MULTIVARIATE STATISTICAL ANALYSIS                                    | 3       |
| PSYC 9910   | TOPICAL SEMINAR IN PSYCHOLOGY (With Approval)                        | 3       |
| <b>Included in MA concentration in industrial/organization psychology</b> |  |         |
| (Required)  |  |         |
| PSYC 9010   | PROSEMINAR: STATISTICAL METHODS I                                    | 3       |
| PSYC 9020   | PROSEMINAR: STATISTICAL METHODS II                                   | 3       |
| PSYC 9090   | PSYCHOMETRIC THEORY  | 3       |
| PSYC 9650   | RESEARCH METHODS IN PSYCHOLOGY                                       | 3       |
| <b>Required industrial/organizational courses</b>                         |  |         |
| <b>Included in MA concentration in industrial/organization psychology</b> |  |         |
| PSYC 8636   | ORGANIZATIONAL PSYCHOLOGY  | 3       |
| PSYC 8646   | PERSONNEL PSYCHOLOGY   | 3       |
| <b>Core industrial/organizational courses <sup>2</sup></b>                |  |         |
| PSYC 9610   | MOTIVATION & MORALE  | 3       |
| PSYC 9620   | TRAINING AND DEVELOPMENT   | 3       |
| PSYC 9630   | LEADERSHIP THEORIES AND RESEARCH                                     | 3       |
| PSYC 9660   | CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL                      | 3       |
| PSYC 9670   | PERSONNEL SELECTION  | 3       |
| PSYC 9680   | GROUPS AND TEAMS   | 3       |
| <b>Topical Seminar</b>  |  |         |
| PSYC 9030   | SEMINAR: TOPICS IN INDUSTRIAL ORGANIZATIONAL PSYCHOLOGY <sup>3</sup> | 3-9     |
| <b>Practicum</b>  |  |         |
| PSYC 9950   | PRACTICUM FOR DOCTORAL STUDENTS <sup>4</sup>                         | 1-6     |

**Research Other than Thesis**

|           |   |      |
|-----------|---|------|
| PSYC 9960 | RESEARCH OTHER THAN THESIS <sup>5</sup> | 1-12 |
|-----------|---|------|

**Thesis**

|           |                     |   |
|-----------|---------------------|---|
| PSYC 8990 | THESIS <sup>5</sup> | 6 |
|-----------|---------------------|---|

**Dissertation**

|           |                         |       |
|-----------|-------------------------|-------|
| PSYC 9990 | PSYCHOLOGY DISSERTATION | 12-24 |
|-----------|-------------------------|-------|

**Electives**

Any course that is not required can serve as an elective as approved by the chair of the PhD committee. It is recommended that one course be taken outside the psychology department.

<sup>1</sup> PSYC 8000: (required)

<sup>2</sup> Require all 4; 1 course taken as part of the MA

<sup>3</sup> PSYC 9030: (topics will change); 2 required

<sup>4</sup> PSYC 9950: (6 hours required for PhD); cannot be taken until AFTER completion of MA thesis

<sup>5</sup> 6 hours required.

**Developmental Psychology Concentration**

| Code  | Title                                | Credits |
|---|--------------------------------------|---------|
| <b>Required Courses</b>   |                                      |         |
| PSYC 8900   | PROBLEMS IN PSYCHOLOGY <sup>1</sup>  | 1-6     |
| PSYC 9500   | SOCIOEMOTIONAL DEVELOPMENT           | 3       |
| PSYC 9530   | COGNITIVE DEVELOPMENT                | 3       |
| PSYC 9550   | PSYCHOSOCIAL DEVELOPMENT             | 3       |
| PSYC 9560   | PROSEMINAR: DEVELOPMENTAL PSYCHOLOGY | 3       |
| <b>Additional Psychology Coursework</b>   |                                      |         |
| Select at least 12 hours from the following (must include at least one additional proseminar course): |                                      | 12      |
| PSYC 8446   | ABNORMAL PSYCHOLOGY                  |         |
| PSYC 8526   | PSYCHOLOGY OF LANGUAGE               |         |
| PSYC 9040   | PROSEMINAR LEARNING <sup>2</sup>     |         |
| PSYC 9070   | PROSEMINAR: COGNITIVE PSYCHOLOGY     |         |
| PSYC 9230   | PROSEMINAR: BEHAVIORAL NEUROSCIENCE  |         |
| PSYC 9430   | PROSEMINAR: PERSONALITY              |         |
| PSYC 9440   | PROSEMINAR: SOCIAL PSYCHOLOGY        |         |
| PSYC/GERO 9460  | SEMINAR IN AGING AND HUMAN BEHAVIOR  |         |

**Methods, Design and Evaluation Coursework**

Select at least 12 hour from the following:

|                   |  |  |
|-------------------|--|--|
| Required:         |  |  |
| PSYC 8316         | PSYCHOLOGICAL AND EDUCATIONAL TESTING        |  |
| PSYC 8520         | FOUNDATIONS OF ASSESSMENT                    |  |
| PSYC 9510         | RESEARCH METHODS IN DEVELOPMENTAL PSYCHOLOGY |  |
| PSYC 9650         | RESEARCH METHODS IN PSYCHOLOGY               |  |
| Eligible courses: |  |  |
| PSYC 9090         | PSYCHOMETRIC THEORY                          |  |
| PSYC 9320         | SEMINAR IN PROGRAM EVALUATION                |  |
| SOC 8060          | QUALITATIVE METHODS                          |  |

**Statistical Analysis Coursework**

Select at least 12 hours from the following:

|                   |                                    |  |
|-------------------|------------------------------------|--|
| Required:         |                                    |  |
| PSYC 9010         | PROSEMINAR: STATISTICAL METHODS I  |  |
| PSYC 9020         | PROSEMINAR: STATISTICAL METHODS II |  |
| Eligible courses: |                                    |  |

|   |   |       |
|---|---|-------|
| PSYC 9120   | MULTIVARIATE STATISTICAL ANALYSIS       |       |
| PSYC 9910   | TOPICAL SEMINAR IN PSYCHOLOGY           |       |
| GERO 8356   | ISSUES IN AGING <sup>3</sup>            |       |
| <b>Human Diversity Coursework</b>   |   |       |
| PSYC 8590   | PSYCHOLOGY OF EXCEPTIONAL CHILDREN      | 3     |
| Course in Cross-Cultural Development  |   | 3     |
| <b>Elective Coursework</b>  |   |       |
| Select at least 12 hours of elective coursework. Students will also find eligible courses in (among other disciplines): |   |       |
| Child, Youth, and Family Studies  |   |       |
| Sociology/Anthropology  |   |       |
| Gerontology   |   |       |
| Latino/Latin American Studies   |   |       |
| <b>Empirical Research Coursework</b>  |   |       |
| PSYC 9960   | RESEARCH OTHER THAN THESIS <sup>3</sup> | 1-12  |
| <b>Included in MA concentration</b>   |   |       |
| PSYC 8990   | THESIS <sup>4</sup>                     | 6     |
| PSYC 9990   | PSYCHOLOGY DISSERTATION <sup>5</sup>    | 12-24 |

<sup>1</sup> PSYC 8900: Readings, Presentation, Review Paper

<sup>2</sup> PSYC 9040: (in conjunction with MMI)

<sup>3</sup> PSYC 9960: (at least 3 hours)

<sup>4</sup> PSYC 8990: (6 hours; required for Master's degree)

<sup>5</sup> PSYC 9990: (12-24 hours)

Every student must complete a two-party qualifying examination consisting of:

- Psychology readings including a written and oral examination across domains
- Grant proposal OR course development (child development, adolescent development or lifespan development)

Additionally, each student is expected to demonstrate proficiency with at least one research tool.

## Neuroscience and Behavior Concentration

| Code   | Title  | Credits |
|--|--|---------|
| <b>Required Course</b>   |  |         |
| 12 hours in graduate-level courses in biological and behavioral sciences |  | 12      |
| <b>Electives</b>   |  |         |
| To be determined by the student's supervisory committee                  |  | 15      |
| <b>Exit Requirement</b>  |  |         |
| PSYC 9990  | PSYCHOLOGY DISSERTATION (12-30 Hours Required) |         |

<sup>1</sup> PSYC 9990: (12-30 hours)

### Exit Requirements

- Comprehensive Examination
- Dissertation

## Special Performance Quality Rule

If at any time a grade of "C", (2.0 on a 4.0 scale) in graduate courses become a matter of record, a graduate student in the Department of Psychology will be placed on probation. An unexcused grade of "W" in a proseminar course will be considered equivalent to a grade of "C" for purposes of this policy. An excused "W" must be approved by the chair of the department of psychology. Students placed on this probation will

forfeit any departmental graduate assistantship they may have and any approved programs of study will be subject to re-evaluation and change. Before registering for additional courses, a student placed on probation must, with the assistance and approval of his/her advisor, submit a plan for remediation of his/her academic problems, and have that plan approved by the Graduate Program Committee. The Graduate Program Committee will review and, if appropriate, modify the plan. Further, any enrollment in graduate courses must be approved by the Graduate Program Committee. The student will remain on probation until the Graduate Program Committee approves termination of probation status. If a student earns a second "C", the student will be dismissed from the program and the GPC will work to come up with a plan, and evaluate if it is possible for the student to return to the program at some point.

## Industrial/Organizational Psychology, MS

The MS in industrial/organizational psychology is designed to prepare students for work in applied settings as well as for continued education. Students are trained using the scientist-practitioner model advocated by Society for Industrial Organizational Psychology (SIOP). Please note, this program does have a STEM designation.

## Program Related Information

### Program Contact

unopsycgrad@unomaha.edu  
402.554.2581

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/psychology/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Fall 2026: January 10

### Other Requirements

- A minimum of 15 undergraduate semester hours (or the equivalent) of psychology courses including: basic statistics and demonstration and involvement in research (through psychology lab course, independent study, research assistant, etc).
- **Entrance Exam:** Graduate Record Examination (GRE) scores are OPTIONAL for those applying to the industrial/organizational program. All applications will be reviewed whether or not GRE scores are included.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- **Statement of Purpose:** The statement of purpose should include: your purpose in applying for graduate study, your particular area of specialization within the major field, your plans for future occupation or profession, and any additional information that may aid the selection committee in evaluating your preparation and your aptitude

for graduate study. You should specifically address your goals and objectives in pursuing graduate study.

- **Writing Sample**
- **Resume**
- **Letters of Recommendation:** Three letters are required

## Degree Requirements

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>Required Courses</b>                                     |   |           |
| PSYC 8636   | ORGANIZATIONAL PSYCHOLOGY                       | 3         |
| PSYC 8646   | PERSONNEL PSYCHOLOGY                            | 3         |
| PSYC 8950   | PRACTICUM FOR MASTER'S STUDENTS                 | 3         |
| PSYC 9010   | PROSEMINAR: STATISTICAL METHODS I               | 3         |
| PSYC 9020   | PROSEMINAR: STATISTICAL METHODS II              | 3         |
| PSYC 9090   | PSYCHOMETRIC THEORY                             | 3         |
| PSYC 9440   | PROSEMINAR: SOCIAL PSYCHOLOGY                   | 3         |
| Select two of the following:                                |   | 6         |
| PSYC 9610   | MOTIVATION & MORALE                             | 3         |
| PSYC 9620   | TRAINING AND DEVELOPMENT                        |           |
| PSYC 9630   | LEADERSHIP THEORIES AND RESEARCH                |           |
| PSYC 9640   | PROBLEM SOLVING & DECISION MAKING               |           |
| PSYC 9660   | CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL | 3         |
| PSYC 9670   | PERSONNEL SELECTION                             |           |
| PSYC 9680   | GROUPS AND TEAMS                                |           |
| Select one of the following:                                |   | 3         |
| PSYC 9040   | PROSEMINAR LEARNING                             | 3         |
| PSYC 9070   | PROSEMINAR: COGNITIVE PSYCHOLOGY                |           |
| PSYC 9230   | PROSEMINAR: BEHAVIORAL NEUROSCIENCE             |           |
| PSYC 9240   | PROSEMINAR: EVOLUTIONARY PSYCHOLOGY             |           |
| Breadth requirement: Select one from list provided by area. |   | 3         |
| <b>Electives</b>  |   |           |
| Selected from any department as approved by your advisor    |   | 3         |
| <b>Total Credits</b>  |   | <b>36</b> |

Students who were undergraduate students at UNO cannot take a dual-listed course at the graduate level if they have already taken the course at the undergraduate level.

## Exit Requirement

- Comprehensive Examination

## Special Performance Quality Rule

If at any time a grade of "C", (2.0 on a 4.0 scale) in graduate courses become a matter of record, a graduate student in the Department of Psychology will be placed on probation. An unexcused grade of "W" in a proseminar course will be considered equivalent to a grade of "C" for purposes of this policy. An excused "W" must be approved by the chair of the Department of Psychology. Students placed on this probation will forfeit any departmental graduate assistantship they may have and any approved programs of study will be subject to re-evaluation and change. Before registering for additional courses, a student placed on probation must, with the assistance and approval of his/her advisor, submit a plan for remediation of his/her academic problems, and have that plan approved by the graduate program committee. The graduate program committee will review and, if appropriate, modify the plan. Further, any enrollment in graduate courses must be approved by the graduate program committee. The student will remain on probation until the graduate program committee

approves termination of probation status. If a student earns a second "C", the student will be dismissed from the program and the GPC will work to come up with a plan, and evaluate if it is possible for the student to return to the program at some point.

## School Psychology, EdS

The UNO school psychology program's mission is to graduate students who have met high levels of academic excellence relevant to the knowledge and skills in the profession of school psychology and that are engaged in and committed to the community. The program is designed to prepare graduates to function as scientist-practitioners in service to children and their families, schools, and communities. The program emphasizes an indirect service delivery approach that is oriented in data-based problem-solving and is responsive to cultural and ecological contexts. Although indirect approaches are emphasized (e.g., consultation, assessment, prevention, and early intervention), graduates are prepared to apply direct psychological services (e.g., individual-, group-, and systems-level interventions) when conditions warrant.

## Program Related Information

### Program Contact

unopsycgrad@unomaha.edu (<http://catalog.unomaha.edu/graduate/degree-programs-certificates-minors/psychology/school-psychology-eds/>)  
unopsycgrad@unomaha.edu (unopsycgrad@unomaha.edu)  
402.554.2581

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/psychology/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Fall 2026: December 15

## Other Requirements

- Must have earned a master's degree in school psychology prior to admittance into the EdS program.
- **English Language Pathology:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

## Degree Requirements

| Code                    | Title  | Credits |
|-------------------------|--|---------|
| <b>Required Courses</b> |  |         |
| PSYC 8250               | FAMILY ANALYSIS AND TREATMENT                        | 3       |
| PSYC 8550               | PSYCHOTHERAPEUTIC INTERVENTIONS                      | 3       |
| PSYC 9100               | SMALL N RESEARCH DESIGNS                             | 3       |
| PSYC 9320               | SEMINAR IN PROGRAM EVALUATION                        | 3       |
| PSYC 9770               | SCHOOL CRISIS INTERVENTION STRATEGIES AND TECHNIQUES | 3       |

|                      |   |           |
|----------------------|---|-----------|
| PSYC 9780            | ADVANCED CONSULTATION IN PSYCHOLOGY AND EDUCATION | 3         |
| PSYC 9910            | TOPICAL SEMINAR IN PSYCHOLOGY                     | 3         |
| PSYC 9940            | SCHOOL PSYCHOLOGY APPLIED RESEARCH PROJECT        | 3         |
| PSYC 9970            | ED.S. LEVEL PRACTICUM IN SCHOOL PSYCHOLOGY        | 6         |
| PSYC 9980            | INTERNSHIP IN SCHOOL PSYCHOLOGY                   | 6         |
| <b>Total Credits</b> |   | <b>36</b> |

36 hours is earned for the EdS in School Psychology

36 hours is earned in a Master's degree in School Psychology

## Total Credit Hours: 72

### Exit Requirement

Must successfully complete the School Psychology PRAXIS Examination.

### Special Performance Quality Rule

If at any time a grade of "C", (2.0 on a 4.0 scale) in graduate courses become a matter of record, a graduate student in the Department of Psychology will be placed on probation. An unexcused grade of "W" in a proseminar course will be considered equivalent to a grade of "C" for purposes of this policy. An excused "W" must be approved by the chair of the Department of Psychology. Students placed on this probation will forfeit any departmental graduate assistantship they may have and any approved programs of study will be subject to re-evaluation and change. Before registering for additional courses, a student placed on probation must, with the assistance and approval of his/her advisor, submit a plan for remediation of his/her academic problems, and have that plan approved by the graduate program committee. The graduate program committee will review and, if appropriate, modify the plan. Further, any enrollment in graduate courses must be approved by the graduate program committee. The student will remain on probation until the graduate program committee approves termination of probation status. If a student earns a second "C", the student will be dismissed from the program and the graduate program committee will work to come up with a plan, and evaluate if it is possible for the student to return to the program at some point.

## School Psychology, MS

The UNO school psychology program's mission is to graduate students who have met high levels of academic excellence relevant to the knowledge and skills in the profession of school psychology and are engaged in and committed to the community. The program is designed to prepare graduates to function as scientist-practitioners in service to children and their families, schools, and communities. The program emphasizes an indirect service delivery approach that is oriented in data-based problem-solving and is responsive to cultural and ecological contexts. Although indirect approaches are emphasized (e.g., consultation, assessment, prevention, and early intervention), graduates are prepared to apply direct psychological services (e.g., individual-, group-, and systems-level interventions) when conditions warrant.

## Program Related Information

### Program Contact

unopsycgrad@unomaha.edu (unopsycgrad@unomaha.edu)  
402.554.2581

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/psychology/academics/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Fall 2026: December 15

### Other Requirements

- A minimum of 15 undergraduate semester hours or the equivalent of psychology courses including: basic statistics and an upper level laboratory course, independent or group research experience, or equivalent, emphasizing the experimental method, data collection, statistical analysis, and report writing, are required.
- **Entrance Exam:** GRE scores are OPTIONAL for those applying to the School Psychology Program. All applications will be reviewed whether or not GRE scores are included.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose**
- **Writing Sample** (preferred APA style)
- **Resume**
- **Letters of Recommendation:** Three letters of recommendation from professors and individuals who can speak to applicant's potential for success in a graduate program.

## Degree Requirements

| Code   | Title   | Credits  |
|--|---|----------|
| <b>Required Courses</b>                      |   |          |
| PSYC 8500                                    | PROFESSIONAL, LEGAL, AND ETHICAL FOUNDATIONS OF SCHOOL PSYCHOLOGY | 3        |
| PSYC 8520                                    | FOUNDATIONS OF ASSESSMENT   | 3        |
| PSYC 8530                                    | EARLY CHILDHOOD ASSESSMENT  | 3        |
| PSYC 8540                                    | SCHOOL AGE ASSESSMENT   | 3        |
| PSYC 8576                                    | BEHAVIOR ANALYSIS AND INTERVENTIONS                               | 3        |
| PSYC 8590                                    | PSYCHOLOGY OF EXCEPTIONAL CHILDREN                                | 3        |
| PSYC 8850                                    | SOCIAL JUSTICE, ADVOCACY, AND ACTION IN SCHOOL PSYCHOLOGY         | 3        |
| PSYC 8970                                    | MASTER'S LEVEL PRACTICUM IN SCHOOL PSYCHOLOGY                     | 1-6      |
| PSYC 9040                                    | PROSEMINAR LEARNING   | 3        |
| PSYC 9130                                    | APPLICATIONS OF ADVANCED STATISTICS IN PSYCHOLOGY                 | 3        |
| PSYC 9560                                    | PROSEMINAR: DEVELOPMENTAL PSYCHOLOGY                              | 3        |
| <b>Select three hours from the following</b> |   | <b>3</b> |
| TED 8130                                     | LANGUAGE, CULTURE, AND POWER                                      |          |

|          |   |
|----------|---|
| TED 8150 | ANTI-RACISM EDUCATION: PRINCIPLES AND PRACTICES |
| TED 8180 | CULTURALLY RESPONSIVE TEACHING                  |
| TED 8210 | EQUITY AND SOCIAL JUSTICE IN EDUCATION          |
| TED 8280 | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |
| TED 8800 | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH |
| TED 9200 | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |

**Total Credits****36**

<sup>1</sup> PSYC 8550: the other course is taken at the EdS level.

## Exit Requirement

### Comprehensive Portfolio (CP)

Students are required to submit a Comprehensive Portfolio (CP) near the end of their master's work. A portfolio is a systematic and purposeful collection of work that documents a student's professional competencies within the program's training objectives. The CP meets the graduate school's master's-level comprehensive examination requirement. The portfolio is intended to represent the student's progress towards meeting program outcomes and his or her ability to effect positive change for children, schools, and families. Thus, it is a formative and summative evaluation of student progress through the program's training objectives.

### Special Performance Quality Rule

If at any time a grade of "C", (2.0 on a 4.0 scale) in graduate courses become a matter of record, a graduate student in the Department of Psychology will be placed on probation. An unexcused grade of "W" in a proseminar course will be considered equivalent to a grade of "C" for purposes of this policy. An excused "W" must be approved by the chair of the Department of Psychology. Students placed on this probation will forfeit any departmental graduate assistantship they may have and any approved programs of study will be subject to re-evaluation and change. Before registering for additional courses, a student placed on probation must, with the assistance and approval of his/her advisor, submit a plan for remediation of his/her academic problems, and have that plan approved by the graduate program committee. The graduate program committee will review and, if appropriate, modify the plan. Further, any enrollment in graduate courses must be approved by the graduate program committee. The student will remain on probation until the graduate program committee approves termination of probation status. If a student earns a second "C", the student will be dismissed from the program and the GPC will work to come up with a plan, and evaluate if it is possible for the student to return to the program at some point.

# Applied Behavior Analysis, MS

The University of Nebraska at Omaha and Munroe Meyer Institute applied behavior analysis program's (ABA) mission is to graduate students who have met high levels of academic excellence in clinical and research skills in behavior analysis. The ABA Program trains students to provide person-centered, culturally responsive, and collaborative services for individuals across the lifespan, including those with neurodevelopmental disabilities, to promote behavioral health outcomes.

## Program Related Information

### Program Contact

Mark Shriver, PhD, Graduate Program Chair (GPC)

Munroe Meyer Institute  
402.559.6408  
mshriver@unmc.edu

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/psychology/academics/graduate-programs/aba-program/>)**

### Other Program Related Information

The UNO and MMI ABA MS program leads to Board Certification in Behavior Analysis (BCBA). This involves completion of (1) the program's Association for Behavior Analysis International Verified Course Sequence and (2) the Behavior Analyst Certification Board fieldwork experience (1500-2000 hours). See BACB website (<http://bacb.com/>) for more details on attaining BCBA.

The majority of coursework is online. However, most online courses require a synchronous meeting, typically weekly, which students will join via Zoom video. All courses, including online courses, follow a semester schedule sequence.

## Admissions

General Application Requirements and Admissions Criteria (p. 972)

### Application Deadlines

- Fall 2026: January 10

### Other Requirements

- A minimum of 15 undergraduate semester hours (or the equivalent) of psychology courses including: basic statistics and an upper level laboratory course, independent research, or equivalent, emphasizing the experimental method, data collection, statistical analysis, and report writing are required.
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Statement of Purpose:** The statement of purpose should include: the applicant's purpose in applying for graduate study, the particular area of specialization within the major field, the applicant's plans for future occupation or profession, and any additional information that may aid the selection committee in evaluating their preparation and their aptitude for graduate study. The applicant should specifically address their goals and objectives in pursuing graduate study.
- Writing Sample:** Senior authored writing sample
- Resume**
- Letters of Recommendation:** Three required

## Degree Requirements

| Code   | Title  | Credits |
|--|--|---------|
| <b>Required Courses</b>  |  |         |
| Grades of B- or better are required for each course with a cumulative GPA not less than 3.0. |  |         |
| PSYC 8550  | PSYCHOTHERAPEUTIC INTERVENTIONS <sup>1</sup>     | 3       |
| PSYC 8576  | BEHAVIOR ANALYSIS AND INTERVENTIONS <sup>1</sup> | 3       |



|                              |   |              |
|------------------------------|---|--------------|
| PSYC 8700                    | ETHICS AND LAW FOR PSYCHOLOGY AND APPLIED BEHAVIOR ANALYSIS <sup>1</sup>                | 3            |
| PSYC 9040                    | PROSEMINAR LEARNING <sup>1</sup>  | 3            |
| PSYC 9050                    | APPLIED BEHAVIOR ANALYSIS IN EDUCATION  | 3            |
| PSYC 9100                    | SMALL N RESEARCH DESIGNS <sup>1</sup>   | 3            |
| PSYC 9130                    | APPLICATIONS OF ADVANCED STATISTICS IN PSYCHOLOGY <sup>1</sup>                          | 3            |
| PSYC 9140                    | ASSESSMENT AND TREATMENT OF AUTISM SPECTRUM DISORDERS <sup>1</sup>                      | 3            |
| PSYC 9150                    | EXPERIMENTAL ANALYSIS OF BEHAVIOR   | 3            |
| PSYC 9160                    | BEHAVIOR ANALYTIC APPROACHES TO ORGANIZATIONAL CHANGE AND HUMAN PERFORMANCE IMPROVEMENT | 3            |
| PSYC 9470                    | PRACTICUM IN APPLIED BEHAVIOR ANALYSIS <sup>1</sup>                                     | 12           |
| PSYC 9560                    | PROSEMINAR: DEVELOPMENTAL PSYCHOLOGY  | 3            |
| PSYC 9570                    | CONCEPTUAL FOUNDATIONS OF BEHAVIOR ANALYSIS <sup>1</sup>                                | 3            |
| Select one of the following: |   | 3-6          |
| PSYC 8990                    | THESIS (6 hours)  |              |
| PSYC 9960                    | RESEARCH OTHER THAN THESIS (3 hours)  |              |
| <b>Total Credits</b>         |   | <b>51-54</b> |

<sup>1</sup> Students may take these courses through UNMC, Munroe Meyer Institute (MMI) by completing an intercampus registration form.

## Exit Requirement

- Comprehensive Examination

The ABA Handbook (<https://www.unomaha.edu/college-of-arts-and-sciences/psychology/academics/graduate-programs/aba-program/>) is a comprehensive resource for prospective and current students in the Applied Behavior Analysis program at UNO. Refer to this document for information concerning the program content, training, policies, research, and more.

## Human Resources and Training Certificate

The purpose of the graduate certificate in human resources and training (HRST) is to help post-baccalaureate students and working professionals expand their educational background and enhance their knowledge and skills in either human resources or training and development. The first concentration, human resources, focuses on enhancing organizational effectiveness through employee recruitment, selection, placement, performance evaluation, motivation, and retention. The second concentration, training and development, focuses on enhancing training skills and program design including developing, implementing, assessing, and delivering training programs. The HRST certificate is useful for individuals currently employed in the human resources or training fields and for individuals who desire to enter those fields. The graduate courses required for this certificate address both theory and application from the fields of communication, psychology, and business.

## Program Related Information

### Program Contact

Lynn Harland, PhD, Graduate Program Chair (GPC)  
402.554.2808  
lharland@unomaha.edu

Sharon Storch, PhD, Graduate Program Chair (GPC)  
402.554.6079  
sstorch@unomaha.edu

Roni Reiter-Palmon, PhD, Graduate Program Chair (GPC)  
402.554.4810  
rreiter-palmon@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/communication/graduate-programs/>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications are accepted and reviewed on a rolling basis throughout the year.

### Other Requirements

- Admission to the HRST graduate certificate program requires a baccalaureate degree with at least a 3.0 GPA, a major or a minor (or at least a 15 credit concentration) in communication studies, psychology, business, or related area, plus at least one three credit course in research methods or statistics.
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Statement of Purpose:** A 1000 word maximum statement of purpose essay describing which concentration you wish to pursue and why.
- Resume:** A resume that includes your work history
- Letter of Recommendation:** One letter of recommendation from a current or former supervisor or professor. During your online application process, you will be asked to provide the name and email address of the person writing your recommendation letter. The online application system will send an email to your recommender containing a link for online submission of the recommendation letter.

## Degree Requirements

| Code                                  | Title                                   | Credits |
|---------------------------------------|---|---------|
| <b>Area One</b>                       |   |         |
| Select three hours from the following |   | 3       |
| BSAD 8136                             | HUMAN RESOURCE MANAGEMENT               |         |
| CACT 8530                             | PERSONNEL PSYCHOLOGY AND LEADERSHIP     |         |
| PSYC 8646                             | PERSONNEL PSYCHOLOGY                    |         |
| <b>Area Two</b>                       |   |         |
| Select three hours from the following |   | 3       |
| BSAD 8156                             | TALENT DEVELOPMENT                      |         |
| COMM 8156                             | ORGANIZATIONAL TRAINING AND DEVELOPMENT |         |
| PSYC 9620                             | TRAINING AND DEVELOPMENT                |         |
| <b>Area Three</b>                     |   |         |
| Select three hours from the following |   | 3       |

|              |  |
|--------------|--|
| BSAD 8250    | ORGANIZATIONAL BEHAVIOR:<br>ENHANCING HUMAN &<br>ORGANIZATIONAL CAPABILITIES |
| COMM 8170    | ORGANIZATIONAL COMMUNICATION<br>AND LEADERSHIP                               |
| PSYC 8636    | ORGANIZATIONAL PSYCHOLOGY  |
| PSYC 9421    | POSITIVE ORGANIZATIONAL<br>PSYCHOLOGY AND LEADERSHIP                         |
| or CACT 8520 | POSITIVE ORGANIZATIONAL PSYCHOLOGY AND<br>LEADERSHIP                         |

**Area Four**

Select six hours from the following 6

|              |   |
|--------------|---|
| BSAD 8096    | MANAGING COLLABORATIVE<br>ENGAGEMENT                    |
| BSAD 8146    | TOTAL REWARDS   |
| BSAD 8166    | STAFFING THE ORGANIZATION                               |
| COMM 8010    | COMMUNICATION RESEARCH<br>METHODS SEMINAR: QUANTITATIVE |
| COMM 8020    | COMMUNICATION RESEARCH<br>METHODS SEMINAR: QUALITATIVE  |
| COMM 8250    | STRATEGIC COMMUNICATION                                 |
| COMM 8576    | INTERCULTURAL COMMUNICATION:<br>THEORY AND PRACTICE     |
| PSYC 8656    | CREATIVITY AND INNOVATION IN<br>ORGANIZATIONS           |
| or CACT 8506 | CREATIVITY AND INNOVATION IN ORGANIZATIONS              |
| PSYC 9610    | MOTIVATION & MORALE                                     |
| PSYC 9660    | CRITERION DEVELOPMENT AND<br>PERFORMANCE APPRAISAL      |

**Total Credits** 15

Courses must be completed in at least two of the three units (i.e., business administration, communication, or psychology) associated with this certificate program.

**Exit Requirements****Portfolio**

Students admitted to the HRST graduate certificate program must create a portfolio (notebook) containing at least one sample project from each course. A portfolio review will be conducted by the student's advisor before the certificate is awarded. Contact your advisor during the last semester of your program.

**Other Program-Related Information**

Many courses are offered online-check each semester schedule for details and availability. Students may need to obtain approval and/or a permit number to enroll in some courses. For psychology (PSYC) courses, please contact the instructor for approval; for business administration (BSAD) courses, please contact the MBA advisor at 402.554.3010, and for communication studies (CMST) courses, please contact the certificate advisor at 402.554.6079.

## Public Administration

### Degree Programs Offered

- Public Administration, MPA (p. 1162)
- Public Administration, PhD (p. 1164)
- Public Administration, MPA and Management Information Systems, MS (MPA/MIS (p. 1123)) (p. 1123)
- Public Administration, MPA and Social Work, MSW (MPA/MSW) (p. 1170)

- Public Administration, MPA and Criminology and Criminal Justice, MS (p. 1166)
- Public Administration, MPA and Gerontology, MA (p. 1167)

**Certificates Offered**

- Public Management Certificate (p. 1172)
- Nonprofit Management Certificate (p. 1173)

**Public Administration, MPA**

The mission of the Master of Public Administration program is to strengthen the public service in a democratic and diverse society by educating students to manage and lead public and nonprofit institutions effectively, ethically and democratically.

**Program Related Information****Program Contact**

Minsoo Goo, Advisor  
402.554.4900  
mgoo@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/mpa.php>)**

**Fast Track Program**

The School of Public Administration has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing any of the following who wish to pursue a Master of Public Administration degree:
  - Students majoring in emergency management from the UNO School of Public Administration
  - Students pursuing the Bachelor of Multidisciplinary Studies
- Students should have senior status and must be within at least 30 undergraduate credits yet to complete their undergraduate degree. Exceptional students who do not meet this requirement may be considered.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast-Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses.
- Students must consult with the MPA advisor prior to enrollment in one of the courses listed below.
- A minimum cumulative GPA of 3.5 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the MPA program is required. The application fee will be waived, the

applicant will need to contact the Office of Graduate Studies for a fee waiver code.

- Admission to Fast Track does NOT guarantee admission to the graduate program.
- For this program, if students maintain at least a grade of B+ in courses taken, they will be recommended for admission to the MPA program.
- The admit term must be after the completion term of the undergraduate degree.

The following courses may be taken under the Fast-Track program:

- PA 8050: Foundations of Public Service
- PA 8090: Organizational Theory and Behavior
- PA 8100: Advanced Management and Leadership for Public and Nonprofit Organizations (Note: This course may only be taken if both PA 8050 and PA 8090 are completed).

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: October 1
- Fall 2026: June 1

### Other Requirements

- The general prerequisite for admission to the MPA program is a four-year bachelors' degree with a minimum 3.0 GPA in the junior and senior years (last 50-60 credit hours)
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose/Admissions Essay:** The essay should be two to four pages (doubled-spaced) and answer the following questions:
  - Please tell us about the factors in your background that will help us understand your interest in a profession in the public or nonprofit sectors.
  - What are your professional goals? Ten years from now, what do you hope to be doing professionally?
  - How can an MPA from UNO help you to achieve these goals?
- **Resume:** Include information emphasizing interest in public service
- **Letters of Recommendation:** Two letters of recommendation are required. These may be from professional or academic references. Letters should discuss the applicant's readiness to engage in graduate education with associated reading, writing, and research requirements.

Generally, students will be admitted unconditionally if they have a strong undergraduate record, demonstrate good communication skills in their admission essay, receive favorable recommendations, and have goals consistent with the mission of the MPA program.

## Degree Requirements

| Code   | Title                                | Credits |
|--|--------------------------------------|---------|
| <b>Required Courses</b>  |                                      |         |
| The School of Public Administration has seven (7) core courses required for all MPA students. <sup>1</sup> |                                      |         |
| PA 8050  | FOUNDATIONS OF PUBLIC ADMINISTRATION | 3       |

|  |   |           |
|--|---|-----------|
| PA 8090  | ORGANIZATION THEORY AND BEHAVIOR  | 3         |
| PA 8100  | ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS | 3         |
| PA 8120  | ANALYSIS AND DECISION MAKING  | 3         |
| PA 8400  | PUBLIC AND NONPROFIT BUDGETING  | 3         |
| PA 8300  | POLICY DESIGN AND IMPLEMENTATION  | 3         |
| PA 8530  | PLANNING AND EVALUATION   | 3         |
| <b>Concentrations</b>  |   |           |
| See MPA Concentrations   |   | 9         |
| <b>General Elective Courses</b>                                  |   |           |
| See MPA General Electives below                                  |   | 6         |
| <b>Specializations</b>   |   |           |
| See MPA Specializations below                                    |   |           |
| At the end of the program, students complete a Capstone Project: |   | 3         |
| PA 8990  | CAPSTONE PROJECT IN PUBLIC ADMINISTRATION                                 |           |
| <b>Total Credits</b>   |   | <b>39</b> |

<sup>1</sup> Must maintain a grade point average (gpa) of 3.2 or above during the first twelve (12) hours of public administration coursework in PA 8050, PA 8090, PA 8100 and PA 8120. Provisional students can earn no grade below a "B" in the first twelve (12) hours of coursework or the student will be dismissed or placed on academic probation. A grade of "C-" or below results in automatic dismissal.

### Exit Requirement

- Capstone - 3 hours PA 8990

### MPA General Electives

Students must complete six hours of elective courses. Any 8000 level public administration course may be taken as an elective (other than the required core and concentration classes). Courses from other departments may also be used as elective courses, but require approval in advance. Students are encouraged to speak with their advisor to select courses.

### MPA Specializations

#### Criminology and Criminal Justice Specialization

| Code                         | Title  | Credits |
|------------------------------|--|---------|
| <b>Required Course</b>       |  |         |
| PA 8410                      | PUBLIC HUMAN RESOURCE MANAGEMENT                 | 3       |
| <b>Elective Courses</b>      |  |         |
| Select two of the following: |  | 6       |
| CRCJ 8010                    | NATURE OF CRIME                                  |         |
| CRCJ 8020                    | SEMINAR IN ADMINISTRATION OF JUSTICE             |         |
| CRCJ 8040                    | SEMINAR IN POLICE AND SOCIETY                    |         |
| CRCJ 8050                    | SEMINAR IN CORRECTIONS                           |         |
| CRCJ 8060                    | SEMINAR IN THE CRIMINAL COURT SYSTEM             |         |
| CRCJ 8080                    | SEMINAR IN JUVENILE JUSTICE                      |         |
| CRCJ 8130                    | SEMINAR IN WOMEN AND CRIMINAL JUSTICE            |         |
| CRCJ 8230                    | TERRORISM  |         |
| CRCJ 9030                    | SEMINAR ON RACE, ETHNICITY, AND CRIMINAL JUSTICE |         |

|                      |  |          |
|----------------------|--|----------|
| CRCJ 9040            | COMPARATIVE CRIMINOLOGY AND CRIMINAL JUSTICE SYSTEMS |          |
| CRCJ 9090            | SPECIAL PROBLEMS IN RESEARCH METHODS                 |          |
| CRCJ 9150            | SPECIAL TOPICS IN CRIMINAL JUSTICE RESEARCH          |          |
| CRCJ 9160            | SEMINAR IN COMMUNITY-BASED CORRECTIONS               |          |
| CRCJ 9170            | ADVANCED SEMINAR ON CORRECTIONS                      |          |
| <b>Total Credits</b> |  | <b>9</b> |

Other graduate courses in criminology & criminal justice may be appropriate depending upon the student’s interests and background. CRCJ 8090 is not recommended.

Information Management Specialization

Please note: A module needs to be complete prior to enrolling in the specialization courses.

| Code                         | Title   | Credits  |
|------------------------------|---|----------|
| <b>Required Courses</b>      |   |          |
| PA 8110                      | MANAGING INFORMATION IN THE PUBLIC SECTOR         | 3        |
| ISQA 8206                    | INFORMATION AND DATA QUALITY MANAGEMENT           | 3        |
| <b>Elective Course</b>       |   |          |
| Select one of the following: |   | 3        |
| ISQA 8196                    | PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY |          |
| ISQA 8420                    | MANAGING THE I.S. FUNCTION                        |          |
| ISQA/CYBR 8570               | INFORMATION SECURITY POLICY AND ETHICS            |          |
| ISQA 8736                    | DECISION SUPPORT SYSTEMS                          |          |
| ISQA 8810                    | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS       |          |
| <b>Total Credits</b>         |   | <b>9</b> |

Concentrations  
Nonprofit Management Concentration

| Code  | Title                                      | Credits  |
|---|--|----------|
| <b>Required Course</b>                        |  |          |
| PA 8550                                       | INTRODUCTION TO THE NON-PROFIT SECTOR      | 3        |
| <b>Select two courses from the following:</b> |  | <b>6</b> |
| PA 8110                                       | MANAGING INFORMATION IN THE PUBLIC SECTOR  |          |
| PA 8160/EMGT 8060                             | PLANNING, PREPAREDNESS, AND MITIGATION     |          |
| PA 8320                                       | PUBLIC POLICY EVALUATION                   |          |
| PA 8350                                       | SOCIAL POLICY AND INEQUALITY               |          |
| PA 8410                                       | PUBLIC HUMAN RESOURCE MANAGEMENT           |          |
| PA 8470                                       | ADMINISTRATIVE ETHICS AND LEADERSHIP       |          |
| PA/EMGT 8430                                  | RESPONSE, RECOVERY & RESILIENCE            |          |
| PA 8480                                       | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION |          |
| PA 8520                                       | SEMINAR IN GRANT WRITING                   |          |
| PA 8540                                       | NONPROFITS AND PUBLIC POLICY               |          |

|                      |   |          |
|----------------------|---|----------|
| PA 8710              | FUND RAISING IN PUBLIC AND NON-PROFIT ORGANIZATIONS |          |
| PA 8750              | SOCIAL DETERMINANTS OF HEALTH                       |          |
| UBNS 8000            | SEMINAR IN URBAN STUDIES                            |          |
| UBNS 8020            | RACE, ETHNICITY, AND AMERICAN CULTURE               |          |
| UBNS 8200            | COMMUNITY ORGANIZING & SOCIAL CHANGE                |          |
| <b>Total Credits</b> |   | <b>9</b> |

Public Management Concentration

| Code  | Title   | Credits  |
|---|---|----------|
| <b>Select three courses from the following:</b> |   | <b>9</b> |
| PA 8010   | THE PUBLIC ECONOMY                              |          |
| PA 8110   | MANAGING INFORMATION IN THE PUBLIC SECTOR       |          |
| PA 8160/EMGT 8060                               | PLANNING, PREPAREDNESS, AND MITIGATION          |          |
| PA 8410   | PUBLIC HUMAN RESOURCE MANAGEMENT                |          |
| PA/EMGT 8430                                    | RESPONSE, RECOVERY & RESILIENCE                 |          |
| PA 8436   | MUNICIPAL ADMINISTRATION                        |          |
| PA 8470   | ADMINISTRATIVE ETHICS AND LEADERSHIP            |          |
| PA 8480   | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION      |          |
| PA 8520   | SEMINAR IN GRANT WRITING                        |          |
| PA 8566   | INTERGOVERNMENTAL MANAGEMENT                    |          |
| PA 8600   | ADMINISTRATIVE LAW                              |          |
| PA 8826   | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS |          |
| UBNS 8000                                       | SEMINAR IN URBAN STUDIES                        |          |

Public and Social Policy Concentration

| Code  | Title                                  | Credits  |
|---|--|----------|
| <b>Required Course</b>                        |  | <b>3</b> |
| PA 8330                                       | SEMINAR IN POLICY ANALYSIS             |          |
| <b>Select two courses from the following:</b> |  | <b>6</b> |
| PA 8010                                       | THE PUBLIC ECONOMY                     |          |
| PA 8160/EMGT 8060                             | PLANNING, PREPAREDNESS, AND MITIGATION |          |
| PA 8320                                       | PUBLIC POLICY EVALUATION               |          |
| PA 8350                                       | SOCIAL POLICY AND INEQUALITY           |          |
| PA/EMGT 8430                                  | RESPONSE, RECOVERY & RESILIENCE        |          |
| PA 8410                                       | PUBLIC HUMAN RESOURCE MANAGEMENT       |          |
| PA 8540                                       | NONPROFITS AND PUBLIC POLICY           |          |
| PA 8566                                       | INTERGOVERNMENTAL MANAGEMENT           |          |
| PA 8740                                       | HEALTH CARE POLICY                     |          |
| PA 8600                                       | ADMINISTRATIVE LAW                     |          |
| <b>Total Credits</b>                          |  | <b>9</b> |

Public Administration, PhD

The PhD in public administration program creates a supportive, collaborative, and rigorous environment for students to develop their intellectual identities and a comprehensive understanding of the field and a range of research traditions. Our students and alumni make significant contributions to theory, policy, research, and practice towards enhancing a

democratic society. We value intellectual openness, collaboration, diversity, and excellence.

The PhD program in public administration is a research degree with a focus on public and nonprofit administration and management in a democratic and diverse society. It is the terminal degree for research and theory development.

## Program Related Information

### Program Contact

Dr. Jooho Lee, PhD, Graduate Program Chair (GPC)  
jooholee@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/phd.php>)**

### Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadline

- Fall 2026: Applicants seeking funding January 15, all other applicants March 1

### Other Requirements

- An earned master's degree in public administration or related field from an accredited institution.
- Generally, the target master's degree level GPA is above 3.20 (on a 4.0 scale).
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL 90, IELTS: 7, PTE: 64, Duolingo: 120
- Applicants are expected to demonstrate the ability to communicate orally and in writing in a manner sufficient to compete effectively at the doctoral level.
- Statement of Purpose:** A five-page statement of intent describing the applicant's goals in pursuing a PhD and plans after completion of the PhD, research interests and desired area of specialization offered in the PhD program, discussion of school faculty with whom the applicant would like to work related to research interests, and an explanation of academic and professional backgrounds preparing the applicant to pursue a PhD.
- Writing Sample:** An academic or professional writing sample is required. This can be, for example, a term paper, thesis, conference paper, evaluation report, or published work.
  - Include a separate 1-page abstract that summarizes the contents of the writing sample. If applicable, please include an explanation of your contribution if the work submitted is multi-authored.
- Resume:** The resume or CV will be examined to assess an applicant's professional work experience and/or extracurricular activities while attending school. Additionally, resumes are examined to assess an applicant's potential ability to understand and do research on the context and practice of contemporary public administration.

- Letters of Recommendation:** Three letters are required. At least two recommendations must be from academics such as current or former professors. The Office of Graduate Studies will contact each recommender via email to obtain the letters.
- Students are responsible for additional information found on the PhD in Public Administration website.
- The doctoral program committee reviews student academic preparation, specifying appropriate courses that must be taken as prerequisites to doctoral study. Except for those who have completed an MPA degree, new doctoral students may be required to first complete MPA course prerequisites or reading prior to enrolling in 9000-level core or research courses.

## Degree Requirements

### Required Courses Summary

92 hours of graduate credit hours beyond the baccalaureate degree. This includes 21 hours of core courses, 12 hours of research courses, six hours of specialization courses, two 1-hour workshops on teaching and research skills, 15 hours of dissertation coursework, and 36 hours of additional graduate-level coursework. The 36 hours of additional graduate-level coursework may be earned from an accredited institution toward a Master of Public Administration degree or a master's degree (MA or MS) in a related academic discipline or field.

| Code  | Title | Credits   |
|---|-------|-----------|
| Seminar Courses   |       | 21        |
| Research Courses  |       | 12        |
| Specialization Courses                                      |       | 6         |
| Teaching & Research Skills Workshops                        |       | 2         |
| Dissertation  |       | 15        |
| Additional graduate-level coursework (from master's degree) |       | 36        |
| <b>Total Credits</b>  |       | <b>92</b> |

### Required Courses

| Code   | Title  | Credits |
|--|--|---------|
| <b>Seminar Courses</b>   |  |         |
| PA 9000  | FOUNDATIONS OF PUBLIC ADMINISTRATION                           | 3       |
| PA 9200  | THEORIES OF THE POLICY PROCESS                                 | 3       |
| PA 9300  | KNOWLEDGE DEVELOPMENT AND USE IN THE PUBLIC SERVICE PROFESSION | 3       |
| PA 9400  | THE ENVIRONMENT OF PUBLIC ADMINISTRATION                       | 3       |
| PA 9500  | THEORIES OF NONPROFIT ORGANIZATIONS AND CIVIL SOCIETY          | 3       |
| PA 9600  | SEMINAR IN ADVANCED MANAGEMENT THEORY                          | 3       |
| PA 9700  | PUBLIC BUDGETING AND FINANCIAL THEORY                          | 3       |
| <b>Research Courses</b>  |  |         |
| PA 9800  | ADVANCED RESEARCH DESIGN                                       | 3       |
| PA 9950  | QUANTITATIVE METHODS IN PUBLIC ADMINISTRATION                  | 3       |
| PA 9960  | QUALITATIVE RESEARCH METHODS                                   | 3       |
| PA 9970  | DIRECTED RESEARCH IN PUBLIC ADMINISTRATION                     | 3       |
| <b>Specialization Courses</b>  |  |         |
| Take 2 elective courses related to one of the following -  |  | 6       |
| Public and Nonprofit: Policy, Theory, Management, Budgeting & Finance, Technology & Data Analytics |  |         |
| <b>Workshops</b>   |  |         |



|                     |   |    |
|---------------------|---|----|
| PA 9920             | TEACHING AND PROFESSIONAL SKILLS WORKSHOP   | 1  |
| PA 9930             | PHD RESEARCH & PROFESSIONAL SKILLS WORKSHOP | 1  |
| <b>Dissertation</b> |   |    |
| PA 9990             | DISSERTATION                                | 15 |

## Progress Review

The doctoral program committee will conduct a review of student progress each year. The committee will make such recommendations as appropriate to the student's advisor. As part of the review, students will be required to submit a summary of annual progress and plans.

## Field Examination

Following completion of coursework, doctoral students take the field examination, which includes two questions: one comprehensive and one related to the student's specialization. The field exam is given in open-book format over two days, eight-hours each day. The field exam testing period is in August (about one week before the fall semester starts) each year.

## Degree Candidacy

Students who have successfully passed the required coursework in their program of study and the field examination apply for Admission to Candidacy for the Doctoral Degree. This application requires majority consent of the student's supervisory committee, the doctoral program committee, and the dean for Graduate Studies.

After admission to degree candidacy, the student must maintain continuous enrollment until they receive the degree. The School monitors this enrollment. Students not in residence must register for a minimum of one semester credit hour of dissertation research. Failure to register during each academic semester will result in termination of the candidacy. Per Graduate College policy, if the term of candidacy is extended beyond three years (excluding summer terms), the candidate must pass another examination.

## Dissertation Proposal

Once field exams are successfully completed, students will complete and defend a dissertation proposal before their supervisory committee. Students are encouraged to submit the dissertation proposal within 12 months of completing field exams. Students enroll in PA 9970 for at least one semester while working on the proposal.

The proposal should consist at minimum of a statement of the topic to be addressed, an explanation of why the topic is important, a review of the relevant literature, and an appropriate research design. The supervisory committee chair will assist the student in the development of the proposal. Oral defense of the proposal will be before a majority of the members of the supervisory committee and the chair of the DPC no earlier than three weeks after they have received the proposal.

After the oral proposal defense, the Proposal Defense Form ([https://drive.google.com/file/d/19J35OKcMWvTeghIR41QM\\_FSUd1KKCADb/view?pli=1](https://drive.google.com/file/d/19J35OKcMWvTeghIR41QM_FSUd1KKCADb/view?pli=1)) should be submitted to the chair of the DPC.

## Dissertation

The dissertation represents an original contribution to knowledge development in the field of public administration. Following successful completion of all coursework and field exams, doctoral students apply for candidacy for the degree and then defend a dissertation proposal before their supervisory committee. Following successful defense of the proposal, students work under the guidance of their supervisory committee chair until the project is complete. Two readers from the student's supervisory committee then review the entire document and may recommend further

work or changes. After the committee chair and readers agree that the dissertation is ready for defense, the student schedules a public defense.

The time limit on granting the PhD in public administration degree is eight (8) years from the time of filing the plan of study in the Office of Graduate Studies

## Quality of Work Standards

Doctoral students are expected to do work of high caliber. Failure to maintain quality of work standards may result in probation or dismissal from the program. Reasons for probation or dismissal may include:

- Failure to maintain a 3.33 average for all course work
- A grade of C+ or below in one course
- Failure to maintain continuous enrollment
- Failure to pass field exams
- Failure to form a supervisory committee
- Violating Student Code of Conduct (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/documents/spa-doctoral-handbook-updated-september-2024.pdf>) standards

# Public Administration, MPA and Criminology and Criminal Justice, MS

The Master of Public Administration and MS in criminology and criminal justice dual degree program is a collaborative effort between the Schools of Public Administration and Criminology and Criminal Justice. The dual degree offers interdisciplinary preparation in the fields of public administration and criminal justice leading to both the master of public administration and master of science in criminology and criminal justice degrees with fewer required hours than it would take to obtain these degrees independently.

Students pursuing this program must complete 57 total hours and can be pursued both online or in person.

## Program Related Information

### Program Contacts

#### Public Administration

Minsoo Goo, Advisor  
402.554.4900  
[mgoo@unomaha.edu](mailto:mgoo@unomaha.edu)

#### Criminology and Criminal Justice

Mark Foxall, [PhD, CJM, Master of Science Program Coordinator](#)  
~~402.554.2610~~  
[markfoxall@unomaha.edu](mailto:markfoxall@unomaha.edu)

Katie Hansen  
Asst. Director of UNO SCCJ Omaha Advising  
402.554.2610  
[KEHansen@unomaha.edu](mailto:KEHansen@unomaha.edu)

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/mpa-dual-degree-cj-mpa.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: October 1
- Fall 2026: June 1

## Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose/Admissions Essay:** The essay should be two to four pages (doubled-spaced) and answer the following questions:
  - Please tell us about the factors in your background that will help us understand your interest in a profession in the public or nonprofit sectors, and criminology and criminal justice.
  - What are your professional goals? Ten years from now, what do you hope to be doing professionally?
  - How can this dual degree help you to achieve these goals?
- **Resume**
- **Letters of Recommendation:** Two letters of recommendation are required, the recommendation requests are generated from your online application. These recommendations should be from professional and academic sources who are directly familiar with your skills and experience. At least one reference should be from an immediate professional supervisor. If you have graduated from an academic program within the past two years, it is suggested that at least one reference should be from a faculty member who can speak directly to your academic preparation for graduate education. References from family members, family friends, personal friends, personal therapists, or other non-professional/academic sources will not be scored.

## Degree Requirements

| Code                         | Title   | Credits |
|------------------------------|---|---------|
| <b>PA Required Courses</b>   |   |         |
| PA 8050                      | FOUNDATIONS OF PUBLIC ADMINISTRATION                                      | 3       |
| PA 8090                      | ORGANIZATION THEORY AND BEHAVIOR  | 3       |
| PA 8100                      | ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS | 3       |
| PA 8300                      | POLICY DESIGN AND IMPLEMENTATION  | 3       |
| PA 8400                      | PUBLIC AND NONPROFIT BUDGETING  | 3       |
| PA 8410                      | PUBLIC HUMAN RESOURCE MANAGEMENT  | 3       |
| <b>CRCJ Required Courses</b> |   |         |
| CRCJ 8010                    | NATURE OF CRIME   | 3       |
| CRCJ 8020                    | SEMINAR IN ADMINISTRATION OF JUSTICE                                      | 3       |

|                           |  |   |
|---------------------------|--|---|
| CRCJ 8030                 | CRIMINAL JUSTICE RESEARCH THEORY AND METHODOLOGY   | 3 |
| CRCJ 8950<br>or CRCJ 8850 | STATISTICAL APPLICATIONS IN CRIMINAL JUSTICE & PUBLIC ADMINISTRATION RISK/NEEDS ASSESSMENT | 3 |
| CRCJ 8120<br>or CRCJ 8130 | POWER, PERCEPTION AND PUNISHMENT SEMINAR IN WOMEN AND CRIMINAL JUSTICE                     | 3 |
| CRCJ 8210<br>or PA 8530   | PROGRAM EVALUATION AND POLICY ANALYSIS PLANNING AND EVALUATION                             | 3 |

### CRCJ Electives

|  |   |
|--|---|
| Complete nine hours of CRCJ graduate courses (8000-9000 level) | 9 |
|--|---|

### Open Electives

|   |   |
|---|---|
| Complete six hours of any PA or CRCJ graduate courses | 6 |
|---|---|

### Exit Requirement

|           |  |   |
|-----------|--|---|
| PA 8990   | CAPSTONE PROJECT IN PUBLIC ADMINISTRATION            | 3 |
| CRCJ 8970 | CAPSTONE PROJECT IN CRIMINOLOGY AND CRIMINAL JUSTICE | 3 |

|                      |           |
|----------------------|-----------|
| <b>Total Credits</b> | <b>57</b> |
|----------------------|-----------|

## Public Administration, MPA and Gerontology, MA

The Master of Public Administration and MA in gerontology dual degree program is a collaborative effort between the School of Public Administration and Department of Gerontology. The dual degree offers interdisciplinary preparation in the fields of public administration and gerontology leading to both the Master of Public Administration and Master of Arts in gerontology degrees with fewer required hours than it would take to obtain these degrees independently.

The program prepares students to assume leadership in the public service sector, specifically in administrative and policy work with governmental units and nonprofit organizations, while providing advocacy and services for and on behalf of older adults and for individuals, families, groups, organizations, and communities that support the older population.

Students pursuing this program must complete 57 total hours and can be pursued both online or in person.

## Program Related Information

### Program Contacts

#### Public Administration

Minsoo Goo, Advisor  
402.554.4900  
[mgoo@unomaha.edu](mailto:mgoo@unomaha.edu)

#### Gerontology

Lindsay Wilkinson, PhD, Graduate Program Chair (GPC)  
402.554.2272  
[lwilkinson@unomaha.edu](mailto:lwilkinson@unomaha.edu)

**Program Website** (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/mpa-gero-dual-degree.php>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: October 1
- Fall 2026: June 1

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** The essay should be two to four pages (doubled-spaced) and answer the following questions:
  - Please tell us about the factors in your background that will help us understand your interest in a profession in the public or nonprofit sectors providing advocacy and services for and on behalf of older adults and for individuals, families, organizations, and communities that support the older population.
  - What are your professional goals? Ten years from now, what do you hope to be doing professionally?
  - How can this dual degree from UNO help you to achieve these goals?
- **Resume:** Include information emphasizing interest in public service
- **Letters of Recommendation:** Two academic/professional letters of recommendation are required.

## Degree Requirements

| Code                                | Title   | Credits |
|-------------------------------------|---|---------|
| <b>PA Required Courses</b>          |   |         |
| PA 8050                             | FOUNDATIONS OF PUBLIC ADMINISTRATION                                      | 3       |
| PA 8090                             | ORGANIZATION THEORY AND BEHAVIOR  | 3       |
| PA 8100                             | ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS | 3       |
| PA 8300                             | POLICY DESIGN AND IMPLEMENTATION  | 3       |
| PA 8400                             | PUBLIC AND NONPROFIT BUDGETING  | 3       |
| PA 8410                             | PUBLIC HUMAN RESOURCE MANAGEMENT  | 3       |
| PA 8530                             | PLANNING AND EVALUATION   | 3       |
| PA 8990                             | CAPSTONE PROJECT IN PUBLIC ADMINISTRATION                                 | 3       |
| <b>Gerontology Required Courses</b> |   |         |
| GERO 8020                           | INTRODUCTION TO RESEARCH METHODS  | 3       |
| GERO 8500                           | POLITICS AND AGING  | 3       |
| GERO 8940                           | GRADUATE PRACTICUM <sup>1</sup>   | 3       |
| GERO 9110                           | THEORIES OF AGING   | 3       |
| GERO 8676                           | PROGRAMS AND SERVICES FOR OLDER ADULTS                                    | 3       |

|  |                                     |           |
|--|-------------------------------------|-----------|
| GERO 9460  | SEMINAR IN AGING AND HUMAN BEHAVIOR | 3         |
| <b>Gerontology Electives</b>   |                                     |           |
| Complete nine hours of GERO graduate courses, this can include thesis. |                                     | 9         |
| <b>Open Electives</b>  |                                     |           |
| Complete six hours of PA or GERO graduate level courses.               |                                     | 6         |
| <b>Total Credits</b>   |                                     | <b>57</b> |

<sup>1</sup> A thesis can be completed rather than practicum.

### Exit Requirements

#### Public Administration

- Capstone - 3 hours of PA 8990

#### Gerontology

- Thesis Option - GERO 8990 6 hours
- Non-Thesis Option - Comprehensive Examination

## Public Administration, MPA and Management Information Systems, MS (MPA/MIS)

In government and non-profit organizations, there is a significant need and a long-term demand for persons with advanced skills in information management technology. The primary purpose of this dual degree option is to prepare students to manage and lead organizations in the future. To meet this need, the School of Public Administration and the College of Information Science & Technology offer the option to complete both the MPA and the MS in MIS degree jointly by completing 54-57 hours of course work beyond foundation requirements. This joint degree program is designed for dedicated students who are able to successfully complete graduate intensive study from two perspectives—public administration and management information systems—while achieving a synergy between the two fields. As such, the program involves graduate coursework in both public administration and information systems, with integrative experiences that will attain the desired synergy. Students interested in this option will work closely with a faculty mentor to develop an integrated plan of study at an early stage.

## Program Related Information

### Program Contacts

#### Public Administration

Minsoo Goo, Advisor  
402.554.4900  
mgoo@unomaha.edu

#### Management Information Systems

Emily Wiemers, Graduate Advisor  
402.554.3819  
ewiemers@unomaha.edu

**Program Website** (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/mpa-dual-degree-mis-mpa.php>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: October 1
- Fall 2026: June 1

### Other Requirements

- The general prerequisite for admission to the program is a four year bachelors' degree with a minimum of a 3.0 GPA of the junior-senior year (last 50-60 credit hours).
- **Entrance Exam:** Submitting GMAT or GRE scores may strengthen your application.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose**
- **Writing Sample:** From work or previous academic experiences. Alternatively, if you do not have a writing sample, please submit a two page double-spaced word processed essay that addresses the following two topics:
  - Your unique personal qualities and life experiences that distinguish you from other applicants to our graduate program
  - Two accomplishments that demonstrate your potential for success in the graduate program
- **Resume:** Indicate your work experience and background
- **Letters of Recommendation:** Two letters of recommendation are required

## Degree Requirements

### MPA/MIS Foundation Courses

A student must have completed some basic courses either as an undergraduate student or prior to enrolling in the first MS in MIS course. Students may start MPA courses while completing the MIS foundation courses. All must be completed prior to or concurrent with the first six hours of MS in MIS graduate course work.

Foundation courses ensure that all students in the program have a strong foundation on which to build the rest of the program. These courses not only provide essential prerequisite knowledge and skills for other courses in the program, but they also contain a distinct body of knowledge that is an important part of the MIS professional's education. All foundation courses are required for all students. Students who have obtained an undergraduate MIS degree will typically have this foundation. Other students, including computer science or engineering majors, will usually have to take one or more foundation courses. Occasionally, a student's work experience may be sufficient to waive one or more foundation courses.

Waivers for foundation courses are granted by the chair of the graduate program committee upon the recommendation of the faculty member who is responsible for an individual foundation course. Students requesting a waiver for a particular course should be prepared to meet with a faculty member and answer questions in the area of the course. They should bring to the meeting any relevant transcripts, course syllabi, course material, or evidence of practical experience. Some foundation courses may have

an option for testing out. Results of a test out are not appealable or repeatable.

| Code  | Title   | Credits |
|---|---|---------|
| Six hours of programming coursework or equivalent experience: |   | 6       |
| CIST 1600   | INTRODUCTION TO PROGRAMMING USING PRACTICAL SCRIPTING   | 3       |
| ISQA 3900   | WEB APPLICATION DEVELOPMENT   | 3       |
| One semester of undergraduate information systems, or:        |   | 3       |
| ISQA 8030   | FOUNDATIONS OF INFORMATION SYSTEMS  |         |
| Select one of the following:                                  |   | 3-6     |
| ISQA 8040   | AN OVERVIEW OF SYSTEMS DEVELOPMENT  |         |
| ISQA 4110 & ISQA 4120 & ISQA 3310                             | INFORMATION SYSTEMS ANALYSIS and SYSTEM DESIGN AND IMPLEMENTATION and MANAGING THE DATABASE ENVIRONMENT |         |

### Required Courses

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>MPA Core Courses</b>   |   |           |
| PA 8050   | FOUNDATIONS OF PUBLIC ADMINISTRATION                                      | 3         |
| PA 8090   | ORGANIZATION THEORY AND BEHAVIOR  | 3         |
| PA 8100   | ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS | 3         |
| PA 8400   | PUBLIC AND NONPROFIT BUDGETING  | 3         |
| PA 8300   | POLICY DESIGN AND IMPLEMENTATION  | 3         |
| PA 8530   | PLANNING AND EVALUATION   | 3         |
| <b>MS in MIS Core Courses</b>   |   |           |
| ISQA 8210   | MANAGEMENT OF SOFTWARE DEVELOPMENT  | 3         |
| ISQA 8220   | ADVANCED SYSTEMS ANALYSIS AND DESIGN                                      | 3         |
| ISQA 8310   | IT INFRASTRUCTURE & CLOUD COMPUTING                                       | 3         |
| ISQA 8380   | ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION                           | 3         |
| ISQA 8410   | DATA MANAGEMENT   | 3         |
| ISQA 8420   | MANAGING THE I.S. FUNCTION  | 3         |
| <b>Methods Course</b>   |   |           |
| PA 8120 or ISQA 8060  | ANALYSIS AND DECISION MAKING RESEARCH IN MIS                              | 3         |
| <b>MPA/MIS Electives</b>  |   |           |
| Select one of the following:  |   | 12        |
| Take a minimum of six hours each of ISQA elective courses and PA elective courses |   |           |
| Or select a MPA/MIS Specialty Area (see below)                                    |   |           |
| Select one of the following (see below):  |   | 6         |
| Capstone Option   |   |           |
| Thesis Option   |   |           |
| <b>Total Credits</b>  |   | <b>57</b> |

## MPA/MIS Specialty Areas

Students may choose to specialize in the following areas (see details below), or in another area with the approval of their faculty advisor (all courses must be at the 8000-level):

### Program Management

| Code      | Title  | Credits |
|-----------|--|---------|
| PA 8450   | SEMINAR IN ADVANCED MANAGEMENT ANALYSIS IN PUBLIC AGENCIES | 3       |
| ISQA 8810 | INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS                | 3       |
| ISQA 8820 | PROJECT RISK MANAGEMENT                                    | 3       |
| PA 8480   | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION                 | 3       |

**Total Credits** 12

### Financial Management Information Systems

| Code           | Title                                      | Credits |
|----------------|--|---------|
| PA 8480        | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION | 3       |
| ISQA/CYBR 8570 | INFORMATION SECURITY POLICY AND ETHICS     | 3       |

**Total Credits** 6

### Health Care Information Systems

| Code           | Title                                  | Credits |
|----------------|--|---------|
| ISQA/CYBR 8570 | INFORMATION SECURITY POLICY AND ETHICS | 3       |

Advisor approved course 3

Integrative Experience (Required) 3-6

**Total Credits** 9-12

## MPA/MIS Exit Requirements

### Capstone Option

| Code    | Title                                     | Credits |
|---------|---|---------|
| PA 8990 | CAPSTONE PROJECT IN PUBLIC ADMINISTRATION | 3       |

The MPA capstone course is taken at the end of the program, with no more than nine credit hours remaining. All public administration core classes must be completed prior to taking the capstone course.

| Code      | Title                                   | Credits |
|-----------|---|---------|
| ISQA 8950 | CAPSTONE MANAGEMENT INFORMATION SYSTEMS | 3       |

Six credit hours or fewer may be left in the program. All MIS core courses must have been completed.

### Thesis Option

To complete this option, a student will be required to enroll in six hours of thesis credit.

| Code      | Title  | Credits |
|-----------|--------|---------|
| ISQA 8990 | THESIS | 6       |

The thesis must be in an area that relates to both the public administration and information systems domains.

**Total Credit Hours: 57**

## Public Administration, MPA and Social Work, MSW (MPA/MSW)

The MPA/MSW dual degree program is a collaborative effort between the University of Nebraska at Omaha (UNO), Grace Abbott School of Social Work and the School of Public Administration. This program offers interdisciplinary preparation in the fields of social work and public administration leading to the master of social work and the master of public administration degrees, with fewer required credit hours than it would take to obtain these degrees independently.

The program prepares students to provide a variety of advanced level micro, mezzo, and macro social work services to individuals, families, groups, organizations, and communities; and assume leadership in the public service sector, specifically in administrative and policy work with governmental units and nonprofit organizations.

Students beginning the MPA/MSW program at the MSW Foundation level must complete 81 credit hours total. Students beginning the MPA/MSW program at the Advanced Standing level must complete 57 credit hours total.

- Master's level social workers are employed in public and private agencies, including medical settings, schools, residential treatment centers, court and correctional agencies, and community planning and development agencies.
- The MSW degree at the Grace Abbott School of Social Work is accredited by the Council on Social Work Education (CSWE), the national accrediting body for all social work education.
- Information on certification and licensure is available on the Nebraska Department of Health and Human Services website (<http://dhhs.ne.gov/Pages/default.aspx>).

## Program Related Information

### Program Contacts

#### Social Work

402.554.2793  
graceabbott@unomaha.edu

#### Public Administration

Minsoo Goo, Advisor  
402.554.4900  
mgoo@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/mpa-dual-degree-msw-mpa.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
  - Foundation MPA/MSW students (those who do not have an undergraduate degree in social work, BSSW) admitted for the spring term are limited to only the MPA coursework in spring and summer terms. The MSW coursework will be added in the fall term.



- Advanced MPA/MSW students (those with an undergraduate degree in social work, BSSW) can begin both MPA and MSW coursework in the spring term.
- Fall 2026: The priority deadline is February 1. Applications will be accepted through March 1.
  - Students who have earned or will be earning any undergraduate degree may apply for fall admission.
- Students admitted as either Generalist MPA/MSW or Advanced Generalist MPA/MSW can begin both MSW and MPA coursework in the fall term.

Note: If admitted to the Master of Social Work program and you wish to become a dual degree MSW/MPA student you will need to adhere to the MPA deadline date which is June 1(fall) or October 1(spring).

## Other Requirements

- The general prerequisite for admission to the program is a four-year bachelors' degree with a minimum of a 3.0 GPA (on a 4.0 scale) in the junior and senior years (last 50-60 hours).
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL, 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** Two statements of purpose are required; one for the School of Public Administration and one for the Grace Abbott School of Social Work
  - For social work, the statement of purpose is an opportunity to demonstrate your understanding of and fit for the social work profession, as well as your aptitude for graduate-level social work education. The Admissions Committee pays close attention to both content and writing skills. In your statement of purpose, please address each of the items listed below, in no more than five (5) pages, double-spaced, in a 12-point font. Your response to each of the items should be roughly the same length. If your statement of purpose does not clearly and directly address each of the items or does not follow the instructions, it may not be considered.
    - Why have you chosen social work?
      - Your response should demonstrate a basic understanding of the social work profession, including what distinguishes it from other helping professions.
    - What type of work are you planning to engage with once you attain your MSW degree?
      - Specifically, what are the issues, populations, and levels of practice you hope to work with after graduate school?
    - The social work profession is rooted in improving the lives of others. Social workers adopt a stance of humility and strive towards cultural awareness.
      - Discuss a time when you realized that your personal experience influenced your reaction to a situation.
      - Reflecting on that experience, how might it influence your future social work practice?
    - Social workers are self-reflective, strengths-based, and growth-oriented.
      - Identify a strength that you possess and an area for growth.
      - Discuss how you became aware of these, how they show up in your current professional practice, and how they may influence your future professional practice.
    - Social work is a values-based profession dedicated to enhancing human wellbeing. From the core values and ethical principles identified in the NASW Code of Ethics (<https://www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English/>):
      - Identify and discuss one that resonates with you.
      - Identify and discuss one that may challenge you.

[www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English/](https://www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English/)):

- For public administration, the essay should answer the following questions:
  - Please tell us about the factors in your background that will help us understand your interest in a profession in the public or nonprofit sectors.
    - What are your professional goals? Ten years from now, what do you hope to be doing professionally?
    - How can this dual degree from UNO help you achieve these goals?
- **Resume:** Applicants are highly encouraged to have professional experience in the human service field. Please submit a professional resume that identifies:
  - Educational and occupational experiences since high school
    - List start and end dates with month and year
    - Identify whether the position is part or full-time
    - Identify whether the position is paid or volunteer
    - Field placements, internships or practicums
    - Honors or distinctions received
- **Letters of Recommendation:** Three letters of recommendation are required. Recommendation requests are generated from your online application. The recommendations should be from professional and academic sources who are directly familiar with your skills and experience. At least one reference should be from an immediate professional supervisor. If you have graduated from an academic program within the past three years, at least one reference should be from a faculty member who can speak directly to your academic preparation for graduate social work education. References from family members, family friends, personal friends, personal therapists, or other non-professional/academic sources will not be scored.
- An undergraduate cumulative GPA of 2.7 or higher is required to be considered for admission.

The MSW Generalist Program is a 63 credit hour program available to applicants who do **not** hold a BSSW degree from an accredited school of social work.

The MPA/MSW Advanced Generalist Program is a 57 credit hour program available to applicants who have earned a BSSW degree from an accredited school of social work within the last 10 years.

## Degree Requirements

| Code                               | Title  | Credits   |
|------------------------------------|--|-----------|
| <b>Required Generalist Courses</b> |  |           |
| SOWK 8070                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I              | 3         |
| SOWK 8080                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II             | 3         |
| SOWK 8090                          | SOCIAL WELFARE POLICY                                    | 3         |
| SOWK 8110                          | INSTITUTIONAL OPPRESSION                                 | 3         |
| SOWK 8130                          | GENERALIST PRACTICE I                                    | 3         |
| SOWK 8150                          | GENERALIST PRACTICE II                                   | 3         |
| SOWK 8160                          | GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3         |
| SOWK 8170                          | GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3         |
| <b>Total Credits</b>               |  | <b>24</b> |

<sup>1</sup> A student must receive grades of "B" or higher in practicum courses (SOWK 8160 and SOWK 8170).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8160. If a new placement is necessary, students may be required to go through the original planning process again.

| Code  | Title   | Credits   |
|---|---|-----------|
| <b>Required Public Administration Courses</b> |   |           |
| PA 8050                                       | FOUNDATIONS OF PUBLIC ADMINISTRATION                                      | 3         |
| PA 8090                                       | ORGANIZATION THEORY AND BEHAVIOR  | 3         |
| PA 8100                                       | ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS | 3         |
| PA 8300                                       | POLICY DESIGN AND IMPLEMENTATION  | 3         |
| PA 8400                                       | PUBLIC AND NONPROFIT BUDGETING  | 3         |
| PA 8530                                       | PLANNING AND EVALUATION   | 3         |
| PA 8990                                       | CAPSTONE PROJECT IN PUBLIC ADMINISTRATION                                 | 3         |
| <b>Public Administration Elective</b>         |   |           |
| Select one of the following:                  |   | 3         |
| PA 8320                                       | PUBLIC POLICY EVALUATION  |           |
| PA 8550                                       | INTRODUCTION TO THE NON-PROFIT SECTOR                                     |           |
| PA 8410                                       | PUBLIC HUMAN RESOURCE MANAGEMENT  |           |
| PA 8480                                       | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION                                |           |
| PA 8520                                       | SEMINAR IN GRANT WRITING  |           |
| PA 8566                                       | INTERGOVERNMENTAL MANAGEMENT  |           |
| PA 8600                                       | ADMINISTRATIVE LAW  |           |
| PA 8740                                       | HEALTH CARE POLICY  |           |
| PA 8470                                       | ADMINISTRATIVE ETHICS AND LEADERSHIP                                      |           |
| <b>Required Social Work Courses</b>           |   |           |
| SOWK 8190                                     | RESEARCH & COMPUTER APPLICATIONS  | 3         |
| SOWK 8220                                     | CLINICAL SOCIAL WORK WITH INDIVIDUALS                                     | 3         |
| SOWK 8230                                     | CLINICAL SOCIAL WORK WITH GROUPS  | 3         |
| SOWK 8540                                     | PLANNING FOR SOCIAL CHANGE  | 3         |
| SOWK 8290                                     | SOCIAL WORK PRACTICE IN HEALTH AND MENTAL HEALTH                          | 3         |
| SOWK 8510                                     | ETHICS, SUPERVISION, AND LEADERSHIP IN THE SOCIAL WORK PROFESSION         | 3         |
| SOWK 8650                                     | HEALTH/MENTAL HEALTH POLICIES FOR SOCIAL WORK                             | 3         |
| SOWK 8400                                     | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>          | 3         |
| SOWK 8410                                     | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup>         | 3         |
| <b>Social Work Electives</b>                  |   |           |
| Select six hours of SOWK graduate courses     |   | 6         |
| <b>Total Credits</b>                          |   | <b>57</b> |

<sup>1</sup> A student must receive a grade of B or higher in practicum courses (SOWK 8400 and SOWK 8410).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8400. If a new placement is necessary, students may be required to go through the original planning process again.

## Exit Requirements

- Capstone - 3 Credits PA 8990
- Satisfactory completion with a grade of B or better in SOWK 8400 and SOWK 8410

## Academic Policies and Standards

- The *Academic Policies and Standards* can be found here (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/social-work/student-resources/>).

# Public Management Certificate

The purpose of the certificate in public management is to allow working professionals with careers in the public sector or graduate students in a related field of study (such as political science or city and regional planning) to expand their educational background and to enhance their knowledge in the area of public management. The graduate certificate is designed to extend students' understanding of theory and practice in the field of public management.

## Program Related Information

### Program Contact

Minsoo Goo, Advisor  
402.554.4900  
mgoo@unomaha.edu

### Program Website (<http://spa.unomaha.edu/GraduateCertificate/>)

The certificate in public management can be obtained online. These courses can be transferred into the MPA program upon acceptance into the MPA program.

## Admissions

General Application Requirements and Admission Criteria

### Application Deadlines

- Spring 2026: October 1
- Fall 2026: June 1

### Other Requirements

- Students must have 3 years of work experience in the public sector.
- The general prerequisite for admission to the graduate certificate in public management program is a four-year bachelors' degree with a minimum of a 3.0 GPA of the junior-senior year (last 50-60 credit hours).
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- **Statement of Purpose:** The statement of purpose should be 2-4 pages double spaced, answering the following questions:
  - What are your goals?
  - Why are you pursuing the certificate?
- **Resume**
- **Letters of Recommendation:** Two letters of recommendation are required.

## Degree Requirements

| Code                         | Title   | Credits   |
|------------------------------|---|-----------|
| <b>Required Courses</b>      |   |           |
| PA 8050                      | FOUNDATIONS OF PUBLIC ADMINISTRATION                                      | 3         |
| PA 8090                      | ORGANIZATION THEORY AND BEHAVIOR  | 3         |
| PA 8100                      | ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS | 3         |
| <b>Elective Courses</b>      |   |           |
| Select two of the following: |   | 6         |
| PA 8110                      | MANAGING INFORMATION IN THE PUBLIC SECTOR                                 |           |
| PA 8470                      | ADMINISTRATIVE ETHICS AND LEADERSHIP                                      |           |
| PA 8436                      | MUNICIPAL ADMINISTRATION  |           |
| PA 8410                      | PUBLIC HUMAN RESOURCE MANAGEMENT  |           |
| PA 8400                      | PUBLIC AND NONPROFIT BUDGETING  |           |
| PA 8550                      | INTRODUCTION TO THE NON-PROFIT SECTOR                                     |           |
| PA 8520                      | SEMINAR IN GRANT WRITING  |           |
| PA 8600                      | ADMINISTRATIVE LAW  |           |
| PA 8710                      | FUND RAISING IN PUBLIC AND NON-PROFIT ORGANIZATIONS                       |           |
| EMGT 8060                    | PLANNING, PREPAREDNESS, AND MITIGATION                                    |           |
| EMGT 8430                    | RESPONSE, RECOVERY & RESILIENCE   |           |
| EMGT 8600                    | CONTEMPORARY ISSUES IN EMERGENCY MANAGEMENT                               |           |
| UBNS 8000/<br>GEOG 8830      | SEMINAR IN URBAN STUDIES  |           |
| UBNS 8200                    | COMMUNITY ORGANIZING & SOCIAL CHANGE                                      |           |
| <b>Total Credits</b>         |   | <b>15</b> |

## Nonprofit Management Certificate

The Nonprofit Management Certificate is designed for professionals working in the nonprofit sector as well as graduate students in related fields who seek to broaden their educational foundation and deepen their expertise in nonprofit management. This graduate certificate enhances students' understanding of both the theory and practice essential to effective nonprofit leadership.

## Program Related Information

### Program Contact

Minsoo Goo, Advisor  
402.554.4900

mgoo@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/graduate-certificates.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: October 1
- Fall 2026: June 1

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Paper-based TOEFL: 550, Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** The statement of purpose should be 2-4 pages double spaced, answering the following questions:
  - What are your goals?
  - Why are you pursuing the certificate?
- **Resume:** Submit a resume including work history
- **Letters of Recommendation:** Two letters of recommendation are required

## Degree Requirements

| Code                               | Title   | Credits |
|------------------------------------|---|---------|
| <b>Required Courses (9 hours):</b> |   |         |
| PA 8550                            | INTRODUCTION TO THE NON-PROFIT SECTOR               | 3       |
| PA 8710                            | FUND RAISING IN PUBLIC AND NON-PROFIT ORGANIZATIONS | 3       |
| Choose one:                        |   |         |
| PA 8410                            | PUBLIC HUMAN RESOURCE MANAGEMENT                    | 3       |
| or PA 8480                         | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION          |         |
| <b>Elective Courses (6 hours):</b> |   |         |
| PA 8090                            | ORGANIZATION THEORY AND BEHAVIOR                    |         |
| PA 8110                            | MANAGING INFORMATION IN THE PUBLIC SECTOR           |         |
| PA 8400                            | PUBLIC AND NONPROFIT BUDGETING                      |         |
| PA 8410                            | PUBLIC HUMAN RESOURCE MANAGEMENT                    |         |
| PA 8480                            | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION          |         |
| PA 8520                            | SEMINAR IN GRANT WRITING                            |         |
| PA 8596                            | TECHNIQUES TOPICS IN NONPROFIT MANAGEMENT           |         |

UBNS 8200 COMMUNITY ORGANIZING & SOCIAL CHANGE

Other determined course(s) in consultation with your advisor.

**Total Credits**

**15**

## Secondary Education, MS

Designed for those teaching in secondary schools across a variety of curricular areas, the secondary education program offers an integrated approach to developing the skills and dispositions needed for today's educational environments. Graduate students choose a program of study that explores content and pedagogy and that also supports their professional goals and standards of practice.

The program is specifically designed around the pillars of:

- Implementing culturally responsive teaching practices
- Engaging in research and assessment to inform instructional decision making
- Applying theoretical frameworks to guide teaching
- Using sound digital pedagogy

The master's degree in secondary education does not lead to initial teacher certification.

## Program Related Information

### Program Contact

unotedgraduateprograms@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-education/teacher-education/graduate/secondary-education.php>)**

### Unclassified Students

Students who are not planning to pursue a program leading to a graduate certificate or a master's degree can be admitted to secondary education with unclassified status. Candidates holding a previous master's degree in education who are seeking additional teaching endorsements may wish to choose an unclassified status. Unclassified students are allowed to take courses for which they meet the prerequisite. Successful completion of graduate courses as an unclassified student does not obligate the department to accept those courses for credit toward the fulfillment of degree requirements.

Formal advisement in an endorsement area is required.

- Candidates should apply for endorsements as soon as they are eligible. If a candidate applies 10 years or more after completing all coursework, a review is required to determine if more coursework is needed.
- To add an endorsement 1/3 of the coursework must be completed at UNO in the endorsement area.

### Fast Track Program

The Department of Teacher Education has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing BS in Education desiring to pursue a MS in Secondary Education.

- Students must have completed no less than 75 undergraduate hours and successful completion of a significant number of undergraduate education courses.
- Students must have a minimum undergraduate GPA of 3.5.
- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: December 10
- Summer 2026: June 1
- Fall 2026: August 1

### Other Requirements

- A minimum undergraduate GPA of 3.0 (on a 4.0 scale).
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Applicants working toward the master's degree must have a valid teaching certificate **or** application to a concentration that leads to certification (e.g. Teacher Academy Project concentration). Exceptions to this will be considered on an individual basis. If needed, please contact Chris Wilcoxon, the graduate program chair. Please note, a master's degree does not lead to initial certification.
- International students who do not intend to teach in the U.S. **may** be eligible for admission.

## Degree Requirements

| Code  | Title  | Credits  |
|---|--|----------|
| <b>Research/Data Driven Course</b>  |  | <b>3</b> |
| The research/data driven course must be completed within the last nine hours of the program. Advisors will share the designated course associated with your selected concentration. |  |          |
| TED 8010  | INTRODUCTION TO RESEARCH                               |          |
| TED 8050  | DATA-DRIVEN DECISION MAKING FOR EDUCATORS <sup>1</sup> |          |
| TED 8250  | ASSESSMENT FOR CLASSROOM TEACHER <sup>1</sup>          |          |

**Foundational Pedagogy Course 3**

A foundational pedagogy course must be completed within the first 18 hours of the program

|          |   |
|----------|---|
| TED 8130 | LANGUAGE, CULTURE, AND POWER                    |
| TED 8160 | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |
| TED 8180 | CULTURALLY RESPONSIVE TEACHING                  |
| TED 8210 | EQUITY AND SOCIAL JUSTICE IN EDUCATION          |
| TED 8280 | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |
| TED 8290 | TRAUMA INFORMED EDUCATION                       |
| TED 8800 | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH |
| TED 9200 | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |

**Concentration 27**  
**Capstone 3**

Capstone is intended to be the last course taken and is an exit requirement. Students must receive a B or better to graduate.

|          |                                       |
|----------|---------------------------------------|
| TED 8730 | PK-12 CAPSTONE                        |
| TED 8900 | SECONDARY EDUCATION GRADUATE CAPSTONE |

**Total Credits 36**

<sup>1</sup> TED 8250 is the only applicable research course for those students pursuing the TAP concentration. TAP students are also required to complete TED 8050.

**Exit Requirements**

Capstone TED 8900 or TED 8730. The professional project completed in this course takes the place of the comprehensive exam. Registration for the course is by permission only. This course is intended to be the last course in your program. A grade of B or better must be received to show satisfactory completion of the course and for program completion.

**Concentrations****Bilingual Education Concentration**

| Code                                  | Title  | Credits |
|---------------------------------------|--|---------|
| <b>Core Pedagogy</b>                  |  |         |
| TED 8140                              | SPECIAL METHODS IN MULTILINGUAL LEARNERS EDUCATION: CULTURALLY RESPONSIVE TEACHING FOR MULTILINGUAL <sup>1</sup> | 3       |
| TED 8480                              | FOUNDATIONS OF BILINGUAL EDUCATION <sup>2</sup>  | 3       |
| <b>Concentration Courses</b>          |  |         |
| TED 8490                              | SPANISH LANGUAGE ARTS <sup>2</sup>   | 3       |
| TED 8020                              | CONTENT, LANGUAGE, & BILITERACY: INTERDISCIPLINARY BILITERACY & TRANSLANGUAGING PEDAGOGY                         | 3       |
| TED 8980                              | PRACTICUM: VARIOUS CONTENT AREAS <sup>2</sup>  | 3       |
| Select three hours from the following |  | 3       |
| TED 8340                              | PRINCIPLES OF LINGUISTICS FOR EDUCATORS  |         |
| TED 8130                              | LANGUAGE, CULTURE, AND POWER   |         |
| Select three hours from the following |  | 3       |
| TED 8180                              | CULTURALLY RESPONSIVE TEACHING   |         |

|                                       |   |    |
|---------------------------------------|---|----|
| TED 8800                              | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH           |    |
| TED 9110                              | PRINCIPLES AND PRACTICES FOR TEACHING READERS             |    |
| Select three hours from the following |   | 3  |
| TED 8120                              | FOUNDATIONS OF MULTILINGUAL LEARNERS <sup>3</sup>         |    |
| SPAN 8076                             | HISPANIC BILINGUALISM                                     |    |
| SPAN 8086                             | INTRODUCTION TO HISPANIC LINGUISTICS                      |    |
| SPAN 8126                             | HISPANIC SOCIOLINGUISTICS                                 |    |
| SPAN 8136                             | SPANISH IN THE UNITED STATES                              |    |
| SPAN 8226                             | THE STRUCTURE OF SPANISH                                  |    |
| WLL 8030                              | SEMINAR: SECOND AND BILINGUAL LANGUAGE ACQUISITION THEORY |    |
| WLL 8050                              | THEORY AND METHODS IN THE TEACHING OF HERITAGE LANGUAGES  |    |
| Select three hours from the following |   | 3  |
| WLL 8020                              | SEMINAR:FL/TESOL RESEARCH                                 |    |
| TED 8250                              | ASSESSMENT FOR CLASSROOM TEACHER                          |    |
| TED 8370                              | DATA VISUALIZATION AND MODELING FOR EDUCATORS             |    |
| TED 8560                              | TECHNOLOGY FOR DIVERSE LEARNERS                           |    |
| TED 8720                              | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |    |
| Total Credits                         |   | 27 |

<sup>1</sup> TED 8140 requires a 25-hour field experience

<sup>2</sup> Taught in Spanish

<sup>3</sup> TED 8120 requires a 20-hour field experience

**English Concentration**

| Code   | Title   | Credits |
|--|---|---------|
| <b>Additional Foundational Pedagogy Course 3</b> |   |         |
| TED 8130   | LANGUAGE, CULTURE, AND POWER                              |         |
| TED 8160   | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS               |         |
| TED 8180   | CULTURALLY RESPONSIVE TEACHING                            |         |
| TED 8210   | EQUITY AND SOCIAL JUSTICE IN EDUCATION                    |         |
| TED 8280   | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION            |         |
| TED 8290   | TRAUMA INFORMED EDUCATION                                 |         |
| TED 9200   | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE            |         |
| <b>Core Pedagogy 6</b>                           |   |         |
| TED 8110   | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS               |         |
| TED 8250   | ASSESSMENT FOR CLASSROOM TEACHER                          |         |
| TED 8300   | EFFECTIVE TEACHING PRACTICES                              |         |
| TED 8720   | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |         |
| <b>Concentration Courses</b>                     |   |         |
| TED 8610   | TEACHING OF WRITING THROUGHOUT THE CURRICULUM             | 3       |
| TED 8660   | YOUNG ADULT LITERATURE                                    | 3       |
| TED 8800   | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH           | 3       |



|   |           |
|---|-----------|
| <b>Electives</b>  | <b>9</b>  |
| Select nine TED or ENGL graduate credits as approved by the advisor |           |
| <b>Total Credits</b>  | <b>27</b> |

## Multilingual Learner Concentration

| Code  | Title  | Credits |
|---|--|---------|
| Additional Foundational Pedagogy Courses  |  | 6       |
| TED 8130  | LANGUAGE, CULTURE, AND POWER   |         |
| TED 8180  | CULTURALLY RESPONSIVE TEACHING   |         |
| TED 8210  | EQUITY AND SOCIAL JUSTICE IN EDUCATION   |         |
| TED 8280  | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION   |         |
| TED 8290  | TRAUMA INFORMED EDUCATION  |         |
| TED 8800  | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH  |         |
| TED 9200  | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE   |         |
| Core Pedagogy   |  |         |
| TED 8120  | FOUNDATIONS OF MULTILINGUAL LEARNERS <sup>1</sup>  | 3       |
| TED 8140  | SPECIAL METHODS IN MULTILINGUAL LEARNERS EDUCATION: CULTURALLY RESPONSIVE TEACHING FOR MULTILINGUAL <sup>2</sup> | 3       |
| Concentration Courses   |  |         |
| TED 8160  | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS  | 3       |
| Select three hours from the following   |  | 3       |
| TED 8340  | PRINCIPLES OF LINGUISTICS FOR EDUCATORS  |         |
| TED 8130  | LANGUAGE, CULTURE, AND POWER   |         |
| TED 8150  | ANTI-RACISM EDUCATION: PRINCIPLES AND PRACTICES  |         |
| Electives   |  | 9       |
| Select nine hours from TED graduate-level courses or other disciplines, as approved by the advisor. |  |         |
| Total Credits   |  | 27      |

<sup>1</sup> TED 8120 requires a 20-hour field experience

<sup>2</sup> TED 8140 requires a 25-hour field experience

## Equity and Social Justice in Education Concentration

| Code                                     | Title   | Credits |
|--|---|---------|
| Additional Foundational Pedagogy Courses |   | 9       |
| TED 8130                                 | LANGUAGE, CULTURE, AND POWER                    |         |
| TED 8160                                 | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |         |
| TED 8180                                 | CULTURALLY RESPONSIVE TEACHING                  |         |
| TED 8210                                 | EQUITY AND SOCIAL JUSTICE IN EDUCATION          |         |
| TED 8280                                 | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |         |
| TED 8290                                 | TRAUMA INFORMED EDUCATION                       |         |
| TED 8800                                 | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH |         |

|   |  |    |
|---|--|----|
| TED 9200  | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE   |    |
| Core Pedagogy   |  | 6  |
| TED 8110  | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS  |    |
| TED 8250  | ASSESSMENT FOR CLASSROOM TEACHER   |    |
| TED 8300  | EFFECTIVE TEACHING PRACTICES   |    |
| TED 8720  | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION  |    |
| Concentration Course  |  | 3  |
| TED 8120  | FOUNDATIONS OF MULTILINGUAL LEARNERS <sup>1</sup>  |    |
| TED 8140  | SPECIAL METHODS IN MULTILINGUAL LEARNERS EDUCATION: CULTURALLY RESPONSIVE TEACHING FOR MULTILINGUAL <sup>2</sup> |    |
| TED 8150  | ANTI-RACISM EDUCATION: PRINCIPLES AND PRACTICES  |    |
| TED 8340  | PRINCIPLES OF LINGUISTICS FOR EDUCATORS  |    |
| Electives   |  | 9  |
| Select nine hours from TED graduate-level courses or other disciplines, as approved by the advisor. |  |    |
| Total Credits   |  | 27 |

<sup>1</sup> TED 8120 requires a 20-hour field experience

<sup>2</sup> TED 8140 requires a 25-hour field experience

## Instructional Technology Leadership Concentration

| Code                                    | Title   | Credits |
|---|---|---------|
| Additional Foundational Pedagogy Course |   | 3       |
| TED 8130                                | LANGUAGE, CULTURE, AND POWER                        |         |
| TED 8160                                | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS         |         |
| TED 8180                                | CULTURALLY RESPONSIVE TEACHING                      |         |
| TED 8210                                | EQUITY AND SOCIAL JUSTICE IN EDUCATION              |         |
| TED 8280                                | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION      |         |
| TED 8290                                | TRAUMA INFORMED EDUCATION                           |         |
| TED 8800                                | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH     |         |
| TED 9200                                | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE      |         |
| Core Pedagogy                           |   |         |
| TED 8540                                | DIGITAL CITIZENSHIP                                 | 3       |
| TED 8590                                | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS       | 3       |
| Concentration Courses                   |   |         |
| TED 8370                                | DATA VISUALIZATION AND MODELING FOR EDUCATORS       | 3       |
| TED 8530                                | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS | 3       |
| TED 8550                                | TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING       | 3       |
| TED 8560                                | TECHNOLOGY FOR DIVERSE LEARNERS                     | 3       |
| TED 8580                                | ONLINE TEACHING AND LEARNING                        | 3       |
| Electives                               |   | 3       |

Select three hours from TED graduate-level courses or other disciplines, as approved by the advisor.

**Total Credits** **27**

## Mathematics Concentration

| Code   | Title   | Credits |
|--|---|---------|
| <b>Additional Foundational Pedagogy Course</b> |   |         |
| TED 8130                                       | LANGUAGE, CULTURE, AND POWER                              | 3       |
| TED 8160                                       | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS               |         |
| TED 8180                                       | CULTURALLY RESPONSIVE TEACHING                            |         |
| TED 8210                                       | EQUITY AND SOCIAL JUSTICE IN EDUCATION                    | 6       |
| TED 8280                                       | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION            |         |
| TED 8290                                       | TRAUMA INFORMED EDUCATION                                 |         |
| TED 8800                                       | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH           | 9       |
| TED 9200                                       | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE            |         |
| <b>Core Pedagogy</b>                           |   |         |
| TED 8110                                       | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS               | 6       |
| TED 8250                                       | ASSESSMENT FOR CLASSROOM TEACHER                          |         |
| TED 8300                                       | EFFECTIVE TEACHING PRACTICES                              |         |
| TED 8720                                       | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |         |
| <b>Concentration Courses</b>                   |   |         |
| TED 8370                                       | DATA VISUALIZATION AND MODELING FOR EDUCATORS             | 9       |
| TED 8410                                       | IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS                |         |
| TED 8530                                       | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS       |         |
| TED 8640                                       | OPEN EDUCATIONAL RESOURCES FOR P-12 TEACHERS              |         |

|          |   |
|----------|---|
| TED 8130 | LANGUAGE, CULTURE, AND POWER                    |
| TED 8160 | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |
| TED 8180 | CULTURALLY RESPONSIVE TEACHING                  |
| TED 8210 | EQUITY AND SOCIAL JUSTICE IN EDUCATION          |
| TED 8280 | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |
| TED 8290 | TRAUMA INFORMED EDUCATION                       |
| TED 8800 | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH |
| TED 9200 | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |

|   |  |  |
|---|--|--|
| OR any graduate level course with the following prefixes: STEM / TED / MATH / CSCI / MTCH                     |  |  |
| <b>Electives</b>  |  |  |
| Select nine hours from any graduate level course with the following prefixes: STEM / TED / MATH / CSCI / MTCH |  |  |
| <b>Total Credits</b>  |  |  |

|   |  |  |
|---|--|--|
| OR any graduate level course with the following prefixes: STEM / TED / MATH / CSCI / MTCH                     |  |  |
| <b>Electives</b>  |  |  |
| Select nine hours from any graduate level course with the following prefixes: STEM / TED / MATH / CSCI / MTCH |  |  |
| <b>Total Credits</b>  |  |  |

OR any graduate level course with the following prefixes: STEM / TED / MATH / CSCI / MTCH

**Electives** **9**

Select nine hours from any graduate level course with the following prefixes: STEM / TED / MATH / CSCI / MTCH

**Total Credits** **27**

## Middle Level Concentration

| Code   | Title   | Credits |
|--|---|---------|
| <b>Additional Foundational Pedagogy Course</b> |   |         |
| TED 8130                                       | LANGUAGE, CULTURE, AND POWER                    | 3       |
| TED 8160                                       | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |         |
| TED 8180                                       | CULTURALLY RESPONSIVE TEACHING                  |         |
| TED 8210                                       | EQUITY AND SOCIAL JUSTICE IN EDUCATION          | 6       |
| TED 8280                                       | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |         |
| TED 8290                                       | TRAUMA INFORMED EDUCATION                       |         |
| TED 8800                                       | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH | 9       |
| TED 9200                                       | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |         |

| Code   | Title   | Credits |
|--|---|---------|
| <b>Additional Foundational Pedagogy Course</b> |   |         |
| TED 8130                                       | LANGUAGE, CULTURE, AND POWER                    | 3       |
| TED 8160                                       | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |         |
| TED 8180                                       | CULTURALLY RESPONSIVE TEACHING                  |         |
| TED 8210                                       | EQUITY AND SOCIAL JUSTICE IN EDUCATION          | 6       |
| TED 8280                                       | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |         |
| TED 8290                                       | TRAUMA INFORMED EDUCATION                       |         |
| TED 8800                                       | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH | 9       |
| TED 9200                                       | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |         |

**Core Pedagogy** **6**

|          |   |   |
|----------|---|---|
| TED 8110 | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS               | 6 |
| TED 8250 | ASSESSMENT FOR CLASSROOM TEACHER                          |   |
| TED 8300 | EFFECTIVE TEACHING PRACTICES                              |   |
| TED 8720 | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |   |

**Concentration Courses**

TED 8376 TEACHING AT THE MIDDLE LEVEL 3

Select six hours from the following 6

|          |   |   |
|----------|---|---|
| TED 8340 | PRINCIPLES OF LINGUISTICS FOR EDUCATORS             | 6 |
| TED 8350 | APPLIED COACHING FOR EDUCATORS                      |   |
| TED 8370 | DATA VISUALIZATION AND MODELING FOR EDUCATORS       |   |
| TED 8400 | ASSESSMENT AND INTERVENTIONS OF PK-12 READERS       |   |
| TED 8410 | IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS          | 9 |
| TED 8420 | TRENDS AND TEACHING STRATEGIES IN SCIENCE EDUCATION |   |
| TED 8530 | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS |   |
| TED 8540 | DIGITAL CITIZENSHIP                                 |   |
| TED 8560 | TECHNOLOGY FOR DIVERSE LEARNERS                     | 9 |
| TED 8590 | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS       |   |
| TED 8610 | TEACHING OF WRITING THROUGHOUT THE CURRICULUM       |   |
| TED 8640 | OPEN EDUCATIONAL RESOURCES FOR P-12 TEACHERS        |   |
| TED 8660 | YOUNG ADULT LITERATURE                              | 9 |
| TED 8750 | OXBOW WRITING PROJECT                               |   |
| TED 9100 | THEORIES, MODELS, AND PRACTICES OF LITERACY         |   |
| TED 9110 | PRINCIPLES AND PRACTICES FOR TEACHING READERS       |   |

**Electives** **9**

Select nine hours from TED graduate-level courses or other disciplines, as approved by the advisor.

**Total Credits** **27**

## School Library Concentration

| Code                                    | Title  | Credits |
|---|--|---------|
| <b>Core Pedagogy</b>                    |  |         |
| TED 8520                                | SCHOOL LIBRARY PRACTICUM                                   | 3       |
| TED 8830                                | LEADERSHIP AND MANAGEMENT IN SCHOOL LIBRARIES              | 3       |
| <b>Concentration Courses</b>            |  |         |
| TED 8540                                | DIGITAL CITIZENSHIP  | 3       |
| TED 8650                                | CHILDREN'S LITERATURE AND EDUCATION                        | 3       |
| TED 8660                                | YOUNG ADULT LITERATURE                                     | 3       |
| TED 8710                                | RESEARCH AND INQUIRY                                       | 3       |
| TED 8740                                | ORGANIZATION OF INFORMATION                                | 3       |
| TED 8760                                | MANAGING COLLECTIONS IN LIBRARIES AND INFORMATION AGENCIES | 3       |
| <b>Additional Concentration Courses</b> |  |         |

| Code                                    | Title  | Credits |
|---|--|---------|
| <b>Core Pedagogy</b>                    |  |         |
| TED 8520                                | SCHOOL LIBRARY PRACTICUM                                   | 3       |
| TED 8830                                | LEADERSHIP AND MANAGEMENT IN SCHOOL LIBRARIES              | 3       |
| <b>Concentration Courses</b>            |  |         |
| TED 8540                                | DIGITAL CITIZENSHIP  | 3       |
| TED 8650                                | CHILDREN'S LITERATURE AND EDUCATION                        | 3       |
| TED 8660                                | YOUNG ADULT LITERATURE                                     | 3       |
| TED 8710                                | RESEARCH AND INQUIRY                                       | 3       |
| TED 8740                                | ORGANIZATION OF INFORMATION                                | 3       |
| TED 8760                                | MANAGING COLLECTIONS IN LIBRARIES AND INFORMATION AGENCIES | 3       |
| <b>Additional Concentration Courses</b> |  |         |

|   |  |   |
|---|--|---|
| <b>Concentration Courses</b>            |  |   |
| TED 8540                                | DIGITAL CITIZENSHIP  | 3 |
| TED 8650                                | CHILDREN'S LITERATURE AND EDUCATION                        | 3 |
| TED 8660                                | YOUNG ADULT LITERATURE                                     | 3 |
| TED 8710                                | RESEARCH AND INQUIRY                                       | 3 |
| TED 8740                                | ORGANIZATION OF INFORMATION                                | 3 |
| TED 8760                                | MANAGING COLLECTIONS IN LIBRARIES AND INFORMATION AGENCIES | 3 |
| <b>Additional Concentration Courses</b> |  |   |

**Additional Concentration Courses** **3**

|          |   |
|----------|---|
| TED 8530 | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS |
| TED 8550 | TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING       |
| TED 8560 | TECHNOLOGY FOR DIVERSE LEARNERS                     |
| TED 8590 | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS       |

**Total Credits** **27**

## Science Concentration

**Code Title Credits**  
**Additional Foundational Pedagogy Course 3**

|          |   |
|----------|---|
| TED 8130 | LANGUAGE, CULTURE, AND POWER                    |
| TED 8160 | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |
| TED 8180 | CULTURALLY RESPONSIVE TEACHING                  |
| TED 8210 | EQUITY AND SOCIAL JUSTICE IN EDUCATION          |
| TED 8280 | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |
| TED 8290 | TRAUMA INFORMED EDUCATION                       |
| TED 8800 | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH |
| TED 9200 | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |

**Core Pedagogy 6**

|          |   |
|----------|---|
| TED 8110 | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS               |
| TED 8250 | ASSESSMENT FOR CLASSROOM TEACHER                          |
| TED 8300 | EFFECTIVE TEACHING PRACTICES                              |
| TED 8720 | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |

**Concentration Courses 9**

|          |   |
|----------|---|
| TED 8370 | DATA VISUALIZATION AND MODELING FOR EDUCATORS       |
| TED 8420 | TRENDS AND TEACHING STRATEGIES IN SCIENCE EDUCATION |
| TED 8530 | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS |
| TED 8640 | OPEN EDUCATIONAL RESOURCES FOR P-12 TEACHERS        |
| TED 8840 | ENGINEERING EDUCATION EXTERNSHIP                    |
| TED 8860 | INVENTION & INNOVATION IN ENGINEERING EDUCATION     |

OR any graduate level course with the following prefixes:  
 STEM / TED / AVN / BIOL / BIOI / CHEM / GEOG / GEOL / PHYS

**Electives 9**

Complete nine graduate hours of advisor approved electives with the following prefixes OR any graduate level course with the following prefixes: STEM / TED / AVN / BIOL / BIOI / CHEM / GEOG / GEOL / PHYS

**Total Credits 27**

## Science, Technology, Engineering, and Mathematics (STEM) Concentration

**Code Title Credits**  
**Additional Foundational Pedagogy Course 3**

|          |                              |
|----------|------------------------------|
| TED 8130 | LANGUAGE, CULTURE, AND POWER |
|----------|------------------------------|

|          |   |
|----------|---|
| TED 8160 | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS     |
| TED 8180 | CULTURALLY RESPONSIVE TEACHING                  |
| TED 8210 | EQUITY AND SOCIAL JUSTICE IN EDUCATION          |
| TED 8280 | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION  |
| TED 8290 | TRAUMA INFORMED EDUCATION                       |
| TED 8800 | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH |
| TED 9200 | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE  |

**Core Pedagogy 6**

|          |   |
|----------|---|
| TED 8110 | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS               |
| TED 8250 | ASSESSMENT FOR CLASSROOM TEACHER                          |
| TED 8300 | EFFECTIVE TEACHING PRACTICES                              |
| TED 8720 | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |

**Concentration Courses 9**

|          |   |
|----------|---|
| TED 8370 | DATA VISUALIZATION AND MODELING FOR EDUCATORS       |
| TED 8410 | IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS          |
| TED 8420 | TRENDS AND TEACHING STRATEGIES IN SCIENCE EDUCATION |
| TED 8530 | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS |
| TED 8540 | DIGITAL CITIZENSHIP                                 |
| TED 8550 | TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING       |
| TED 8560 | TECHNOLOGY FOR DIVERSE LEARNERS                     |
| TED 8580 | ONLINE TEACHING AND LEARNING                        |
| TED 8590 | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS       |
| TED 8640 | OPEN EDUCATIONAL RESOURCES FOR P-12 TEACHERS        |
| TED 8840 | ENGINEERING EDUCATION EXTERNSHIP                    |
| TED 8860 | INVENTION & INNOVATION IN ENGINEERING EDUCATION     |

**Electives 9**

Select nine hours from TED graduate-level courses or other disciplines, as approved by the advisor.

**Total Credits 27**

## Teacher Academy Project Concentration

**Code Title Credits**  
**Core Pedagogy**

|          |                                  |   |
|----------|----------------------------------|---|
| TED 8300 | EFFECTIVE TEACHING PRACTICES     | 3 |
| TED 8390 | CLASSROOM MANAGEMENT IN PRACTICE | 3 |

**Concentration Courses**

|           |   |   |
|-----------|---|---|
| SPED 8030 | TEACHING STUDENTS WITH EXCEPTIONALITIES   | 3 |
| TED 8006  | SPECIAL METHODS IN THE CONTENT AREA       | 3 |
| TED 8050  | DATA-DRIVEN DECISION MAKING FOR EDUCATORS | 3 |

|                                       |   |           |
|---------------------------------------|---|-----------|
| TED 8310                              | HUMAN DEVELOPMENT - CONTEMPORARY IMPLICATIONS FOR TEACHING & LEARNING | 3         |
| TED 9110                              | PRINCIPLES AND PRACTICES FOR TEACHING READERS                         | 3         |
| TED 9120                              | GRADUATE IN-SERVICE TEACHING  | 3         |
| Select three hours from the following |   | 3         |
| TED 8100                              | RESEARCH PROJECT  |           |
| TED 8540                              | DIGITAL CITIZENSHIP   |           |
| TED 8550                              | TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING                         |           |
| TED 8590                              | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS                         |           |
| <b>Total Credits</b>                  |   | <b>27</b> |

## Curriculum, Instruction, and Assessment Concentration

| Code   | Title   | Credits  |
|--|---|----------|
| <b>Additional Foundation Pedagogy Course</b> |   | <b>3</b> |
| TED 8130                                     | LANGUAGE, CULTURE, AND POWER                              |          |
| TED 8160                                     | MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS               |          |
| TED 8180                                     | CULTURALLY RESPONSIVE TEACHING                            |          |
| TED 8210                                     | EQUITY AND SOCIAL JUSTICE IN EDUCATION                    |          |
| TED 8280                                     | INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION            |          |
| TED 8290                                     | TRAUMA INFORMED EDUCATION                                 |          |
| TED 8800                                     | MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH           |          |
| TED 9200                                     | CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE            |          |
| <b>Core Pedagogy</b>                         |   | <b>6</b> |
| TED 8110                                     | EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS               |          |
| TED 8250                                     | ASSESSMENT FOR CLASSROOM TEACHER                          |          |
| TED 8300                                     | EFFECTIVE TEACHING PRACTICES                              |          |
| TED 8720                                     | INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION |          |
| <b>Concentration Courses</b>                 |   | <b>9</b> |
| TED 8100                                     | RESEARCH PROJECT  |          |
| TED 8340                                     | PRINCIPLES OF LINGUISTICS FOR EDUCATORS                   |          |
| TED 8350                                     | APPLIED COACHING FOR EDUCATORS                            |          |
| TED 8370                                     | DATA VISUALIZATION AND MODELING FOR EDUCATORS             |          |
| TED 8376                                     | TEACHING AT THE MIDDLE LEVEL                              |          |
| TED 8400                                     | ASSESSMENT AND INTERVENTIONS OF PK-12 READERS             |          |
| TED 8410                                     | IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS                |          |
| TED 8420                                     | TRENDS AND TEACHING STRATEGIES IN SCIENCE EDUCATION       |          |
| TED 8530                                     | INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS       |          |
| TED 8540                                     | DIGITAL CITIZENSHIP                                       |          |
| TED 8560                                     | TECHNOLOGY FOR DIVERSE LEARNERS                           |          |
| TED 8590                                     | TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS             |          |

|   |   |           |
|---|---|-----------|
| TED 8610  | TEACHING OF WRITING THROUGHOUT THE CURRICULUM |           |
| TED 8640  | OPEN EDUCATIONAL RESOURCES FOR P-12 TEACHERS  |           |
| TED 8660  | YOUNG ADULT LITERATURE                        |           |
| TED 8750  | OXBOW WRITING PROJECT                         |           |
| TED 9100  | THEORIES, MODELS, AND PRACTICES OF LITERACY   |           |
| TED 9110  | PRINCIPLES AND PRACTICES FOR TEACHING READERS |           |
| <b>Electives</b>  |   | <b>9</b>  |
| Select nine hours from TED graduate-level courses or other disciplines, as approved by the advisor. |   |           |
| <b>Total Credits</b>  |   | <b>27</b> |

## Social Work

### Degree Programs Offered

- Social Work, MSW (p. 1179)
- Social Work, MSW and Criminology and Criminal Justice, MS (MSW/CRCJ) (p. 1062)
- Public Administration, MPA and Social Work, MSW (MPA/MSW) (p. 1170)
- Social Work, MSW and Public Health, MPH (MSW/MPH) (p. 1185)

### Certificates Offered

- Managing Juvenile and Adult Populations Certificate (p. 1064)

## Social Work, MSW

The mission of the Grace Abbott School of Social Work is to educate students to become highly qualified social workers who serve people of all ages and influence the systems that affect them, to advance knowledge through teaching and research, and to engage with communities to promote societal wellbeing.

## Program Related Information

### Program Contact

402.554.2793  
[graceabbott@unomaha.edu](mailto:graceabbott@unomaha.edu)

### Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/social-work/>)

The MSW program has received continuous accreditation from the Council on Social Work Education since 1940. The MSW program prepares students to provide a variety of advanced social work services with individuals, families, groups, organizations, and communities. The MSW degree is recognized for licensure for independent social work practice in the United States. More information regarding licensure and certification can be found on local Department of Health and Human Services websites.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Spring admission to the School of Social Work is limited to students who have already completed or will be completing a BSSW (Bachelor of Science in social work) from a CSWE accredited

program prior to beginning the MSW and are applying to the advanced generalist MSW program. Students who have earned or will be earning a degree other than a BSSW must apply for fall admission.

- Fall 2026: The priority deadline is February 1. Applications will be accepted through March 1.
  - Students who have earned or will be earning any undergraduate degree may apply for fall admission.

## Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 85, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** The statement of purpose is an opportunity to demonstrate your understanding of and fit for the social work profession, as well as your aptitude for graduate-level social work education. The Admissions Committee pays close attention to both content and writing skills. In your statement of purpose, please address each of the items listed below, in no more than five (5) pages, double-spaced, in a 12-point font. Your response to each of the items should be roughly the same length. If your statement of purpose does not clearly and directly address each of the items or does not follow the instructions, it may not be considered.
  - Why have you chosen social work?
    - Your response should demonstrate a basic understanding of the social work profession, including what distinguishes it from other helping professions.
  - What type of work are you planning to engage with once you attain your MSW degree?
    - Specifically, what are the issues, populations, and levels of practice you hope to work with after graduate school?
  - The social work profession is rooted in improving the lives of others. Social workers adopt a stance of humility and strive towards cultural awareness.
    - Discuss a time when you realized that your personal experience influenced your reaction to a situation.
    - Reflecting on that experience, how might it influence your future social work practice?
  - Social workers are self-reflective, strengths-based, and growth-oriented.
    - Identify a strength that you possess and an area for growth.
    - Discuss how you became aware of these, how they show up in your current professional practice, and how they may influence your future professional practice.
  - Social work is a values-based profession dedicated to enhancing human wellbeing. From the core values and ethical principles identified in the NASW Code of Ethics (<https://www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English/>):
    - Identify and discuss one that resonates with you.
    - Identify and discuss one that may challenge you.
  - **Resume:** Applicants are highly encouraged to have professional experience in the human service field. Please submit a professional resume that identifies:
    - Educational and occupational experiences since high school
      - List start and end dates with month and year.
      - Identify whether the position is part or full-time.
      - Identify whether the position is paid or volunteer.

- Field placements, internships or practicums
- Honors or distinctions received.

- **Letters of Recommendation:** Three letters of recommendation are required; the recommendation requests are generated from your online application. These recommendations should be from professional and academic sources who are directly familiar with your skills and experience. At least one reference should be from an immediate professional supervisor. If you have graduated from an academic program within the past two years, it is suggested that at least one reference should be from a faculty member who can speak directly to your academic preparation for graduate social work education. References from family members, family friends, personal friends, personal therapists, or other non-professional/academic sources will not be scored.
- If transferring from another accredited MSW program, one letter must be from a current faculty member associated with that program.
- An undergraduate cumulative GPA of 2.7 or higher is required to be considered for admission.

The MSW **Generalist Program** is a 63 credit hour program available to applicants who do **not** hold a BSSW degree from an accredited school of social work.

The MSW **Advanced Generalist Program** is a 39 credit hour program available to applicants who have earned a BSSW degree from an accredited school of social work.

## Degree Requirements

| Code                               | Title  | Credits   |
|------------------------------------|--|-----------|
| <b>Required Generalist Courses</b> |  |           |
| SOWK 8070                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I              | 3         |
| SOWK 8080                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II             | 3         |
| SOWK 8090                          | SOCIAL WELFARE POLICY                                    | 3         |
| SOWK 8110                          | INSTITUTIONAL OPPRESSION                                 | 3         |
| SOWK 8130                          | GENERALIST PRACTICE I                                    | 3         |
| SOWK 8150                          | GENERALIST PRACTICE II                                   | 3         |
| SOWK 8160                          | GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3         |
| SOWK 8170                          | GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3         |
| <b>Total Credits</b>               |  | <b>24</b> |

<sup>1</sup> A student must receive grades of "B" or higher in practicum courses (SOWK 8160 and SOWK 8170).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8160. If a new placement is necessary, students may be required to go through the original planning process again.

| Code  | Title  | Credits |
|---|--|---------|
| <b>Required Advanced Generalist Courses</b> |  |         |
| SOWK 8190                                   | RESEARCH & COMPUTER APPLICATIONS                 | 3       |
| SOWK 8220                                   | CLINICAL SOCIAL WORK WITH INDIVIDUALS            | 3       |
| SOWK 8230                                   | CLINICAL SOCIAL WORK WITH GROUPS                 | 3       |
| SOWK 8290                                   | SOCIAL WORK PRACTICE IN HEALTH AND MENTAL HEALTH | 3       |



|   |   |           |
|---|---|-----------|
| SOWK 8650   | HEALTH/MENTAL HEALTH POLICIES FOR SOCIAL WORK                     | 3         |
| SOWK 8510   | ETHICS, SUPERVISION, AND LEADERSHIP IN THE SOCIAL WORK PROFESSION | 3         |
| SOWK 8540   | PLANNING FOR SOCIAL CHANGE  | 3         |
| SOWK 8400   | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3         |
| SOWK 8410   | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3         |
| <b>Advanced Research Course</b>   |   |           |
| SOWK 8940   | EVALUATION OF SOCIAL PROGRAMS                                     | 3         |
| <b>Electives</b>  |   |           |
| Select 9 graduate credits (8000 or 9000 level) from social work, gerontology, criminology & criminal justice or public administration. Students who are pursuing a graduate certificate or a graduate minor may be able to apply certain courses in those program curricula as MSW electives. |   | 9         |
| <b>Total Credits</b>  |   | <b>39</b> |

<sup>1</sup> A student must receive a grade of B or higher in practicum courses (SOWK 8400 and SOWK 8410).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8400. If a new placement is necessary, students may be required to go through the original planning process again.

## Exit Requirement

Satisfactory completion with a grade of B or better in SOWK 8400 and SOWK 8410

## Academic Policies and Standards

- The MSW Student Handbook can be found here (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/social-work/student-resources/>).

## Social Work, MSW and Criminology and Criminal Justice, MS (MSW/CRCJ)

The MSW and Master of Science in criminology and criminal justice (MSW/CRCJMS) dual degree program is a collaborative effort between the University of Nebraska at Omaha, Grace Abbott School of Social Work and the School of Criminology and Criminal Justice. The MSW/CRCJMS offers interdisciplinary preparation in the fields of social work and criminal justice leading to the master of social work and the master of criminal justice degrees, with fewer required credit hours than it would take to obtain these degrees independently.

This dual degree program prepares students to provide a range of advanced social work services for individuals, families, groups, organizations, and communities and assume leadership in the field of criminal justice and social work. Graduates with a dual MSW/CRCJMS are prepared to respond to the needs of the community by working with delinquent and criminal populations and the systems that impact these populations.

Students beginning the MSW/CRCJMS program at the MSW Generalist level must complete 81 credit hours total. Students beginning the MSW/

CRCJMS program at the Advanced Generalist level, must complete 57 credit hours total.

## Program Related Information

### Program Contact

#### Social Work Contact

402.554.2793

[graceabbott@unomaha.edu](mailto:graceabbott@unomaha.edu)

#### Criminology and Criminal Justice Contact

Mark Foxall, PhD, CJM, MS Coordinator

402.554.2610

[markfoxall@unomaha.edu](mailto:markfoxall@unomaha.edu)

Katie Hansen

Asst. Director of UNO SCCJ Omaha Advising

402.554.2610

[KEHansen@unomaha.edu](mailto:KEHansen@unomaha.edu)

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/criminology-and-criminal-justice/graduate-programs/ms-msw.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
  - Generalist MSW/MSCRJ students (those who do not have an undergraduate degree in social work, BSSW) admitted for the spring term are limited to only the MSCRCJ coursework in spring and summer terms. The MSW coursework will be added in the fall term.
  - Advanced Generalist MSW/MSCRJ students (those with an undergraduate degree in social work, BSSW) can begin both MSCRCJ and MSW coursework in the spring term.
- Fall 2026: The priority deadline is February 1. Applications will be accepted through March 1.
  - Students who have earned or will be earning any undergraduate degree may apply for fall admission.
  - Students admitted as either Foundation MSW/MSCRJ or Advanced MSW/MSCRJ can begin both MSW and MSCRCJ coursework in the fall term.

### Other Requirements

- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Statement of Purpose:** The statement of purpose is an opportunity to demonstrate your understanding of and fit for the social work profession, as well as your aptitude for graduate-level social work education. The Admissions Committee pays close attention to both content and writing skills. In your statement of purpose, please address each of the items listed below, in no more than five (5) pages, double-spaced, in a 12-point font. Your response to each of the items should be roughly the same length. If your statement of purpose does not

clearly and directly address each of the items or does not follow the instructions, it may not be considered.

- Why have you chosen social work?
  - Your response should demonstrate a basic understanding of the social work profession, including what distinguishes it from other helping professions.
- What type of work are you planning to engage with once you attain your MSW degree?
  - Specifically, what are the issues, populations, and levels of practice you hope to work with after graduate school?
- The social work profession is rooted in improving the lives of others. Social workers adopt a stance of humility and strive towards cultural awareness.
  - Discuss a time when you realized that your personal experience influenced your reaction to a situation.
  - Reflecting on that experience, how might it influence your future social work practice?
- Social workers are self-reflective, strengths-based, and growth-oriented.
  - Identify a strength that you possess and an area for growth.
  - Discuss how you became aware of these, how they show up in your current professional practice, and how they may influence your future professional practice.
- Social work is a values-based profession dedicated to enhancing human wellbeing. From the core values and ethical principles identified in the NASW Code of Ethics (<https://www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English/>):
  - Identify and discuss one that resonates with you.
  - Identify and discuss one that may challenge you.
- **Resume:** Applicants are highly encouraged to have professional experience in the human service field. Please submit a professional resume that identifies:
  - Educational and occupational experiences since high school
    - List start and end dates with month and year
    - Identify whether the position is part or full-time
    - Identify whether the position is paid or volunteer
    - Field placements, internships or practicums
    - Honors or distinctions received
- **Letters of Recommendation:** Three letters of recommendation are required, the recommendation requests are generated from your online application. These recommendations should be from professional and academic sources who are directly familiar with your skills and experience. At least one reference should be from an immediate professional supervisor. If you have graduated from an academic program within the past two years, it is suggested that at least one reference should be from a faculty member who can speak directly to your academic preparation for graduate social work education. References from family members, family friends, personal friends, personal therapists, or other non-professional/academic sources will not be scored.
  - If transferring from another accredited MSW program, one letter must be from a current faculty member associated with that program.
- The MS application for criminology and criminal justice is completed online adhering to the same admission criteria for the MSW degree. The personal statement and letters of recommendation for admission to the MSW degree will be used by the School of Criminology and Criminal Justice to admit students.
- An undergraduate cumulative GPA of 2.7 or higher is required to be considered for admission.

The MSW/MSCRJ **Generalist Program** is a 81 credit hour program available to applicants who do **not** hold a BSSW degree from an accredited school of social work within the last 10 years.

The MSW/MSCRJ **Advanced Generalist Program** is a 57 credit hour program available to applicants who have earned a BSSW degree from an accredited school of social work within the last 10 years.

## Degree Requirements

| Code                               | Title  | Credits   |
|------------------------------------|--|-----------|
| <b>Required Foundation Courses</b> |  |           |
| SOWK 8070                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I              | 3         |
| SOWK 8080                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II             | 3         |
| SOWK 8090                          | SOCIAL WELFARE POLICY                                    | 3         |
| SOWK 8110                          | INSTITUTIONAL OPPRESSION                                 | 3         |
| SOWK 8130                          | GENERALIST PRACTICE I                                    | 3         |
| SOWK 8150                          | GENERALIST PRACTICE II                                   | 3         |
| SOWK 8160                          | GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3         |
| SOWK 8170                          | GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3         |
| <b>Total Credits</b>               |  | <b>24</b> |

<sup>1</sup> A student must receive grades of "B" or higher in practicum courses (SOWK 8160 and SOWK 8170).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8160. If a new placement is necessary, students may be required to go through the original planning process again.

| Code                         | Title   | Credits |
|------------------------------|---|---------|
| <b>Required Core Courses</b> |   |         |
| SOWK 8190                    | RESEARCH & COMPUTER APPLICATIONS                                  | 3       |
| SOWK 8220                    | CLINICAL SOCIAL WORK WITH INDIVIDUALS                             | 3       |
| SOWK 8230                    | CLINICAL SOCIAL WORK WITH GROUPS                                  | 3       |
| SOWK 8510                    | ETHICS, SUPERVISION, AND LEADERSHIP IN THE SOCIAL WORK PROFESSION | 3       |
| SOWK 8540                    | PLANNING FOR SOCIAL CHANGE  | 3       |
| SOWK 8650                    | HEALTH/MENTAL HEALTH POLICIES FOR SOCIAL WORK                     | 3       |
| SOWK 8290                    | SOCIAL WORK PRACTICE IN HEALTH AND MENTAL HEALTH                  | 3       |
| SOWK 8400                    | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3       |
| SOWK 8410                    | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3       |

### Advanced Research Course

|                              |  |   |
|------------------------------|--|---|
| Select one of the following: |  | 3 |
| SOWK 8940                    | EVALUATION OF SOCIAL PROGRAMS          |   |
| SOWK 8960                    | RESEARCH OTHER THAN THESIS             |   |
| CRCJ 8210                    | PROGRAM EVALUATION AND POLICY ANALYSIS |   |

### Social Work Electives

|   |   |
|---|---|
| Select six hours of SOWK graduate courses | 6 |
|---|---|

### Required Criminology and Criminal Justice Courses

|   |  |           |
|---|--|-----------|
| CRCJ 8010   | NATURE OF CRIME                                      | 3         |
| CRCJ 8020   | SEMINAR IN ADMINISTRATION OF JUSTICE                 | 3         |
| CRCJ 8970   | CAPSTONE PROJECT IN CRIMINOLOGY AND CRIMINAL JUSTICE | 3         |
| CRCJ 8120   | POWER, PERCEPTION AND PUNISHMENT                     | 3         |
| or CRCJ 8130                                      | SEMINAR IN WOMEN AND CRIMINAL JUSTICE                |           |
| Select one course from the following              |  | 3         |
| CRCJ 8040   | SEMINAR IN POLICE AND SOCIETY <sup>4</sup>           |           |
| CRCJ 8050   | SEMINAR IN CORRECTIONS <sup>4</sup>                  |           |
| CRCJ 8080   | SEMINAR IN JUVENILE JUSTICE <sup>4</sup>             |           |
| <b>Criminology and Criminal Justice Electives</b> |  |           |
| Select six hours of CRCJ graduate courses.        |  | 6         |
| <b>Total Credits</b>                              |  | <b>57</b> |

<sup>1</sup> A student must receive a grade of "B" or higher in practicum courses (SOWK 8400 and SOWK 8410).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8400. If a new placement is necessary, students may be required to go through the original planning process again.

<sup>4</sup> Courses not selected from among the three listed may be used as an elective.

## Exit Requirements

- CRCJ 8970 capstone course is offered in the fall and spring semesters. Once all required coursework has been completed, the student can register to take the capstone course. The course will require students to engage in a problem-solving project involving group work, which culminates in a written report and oral presentation.
- Satisfactory completion with a grade of B or better in SOWK 8400 and SOWK 8410

## Academic Policies and Standards

- The MSW Student Handbook can be found here (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/social-work/student-resources/>).

## Public Administration, MPA and Social Work, MSW (MPA/MSW)

The MPA/MSW dual degree program is a collaborative effort between the University of Nebraska at Omaha (UNO), Grace Abbott School of Social Work and the School of Public Administration. This program offers interdisciplinary preparation in the fields of social work and public administration leading to the master of social work and the master of public administration degrees, with fewer required credit hours than it would take to obtain these degrees independently.

The program prepares students to provide a variety of advanced level micro, mezzo, and macro social work services to individuals, families, groups, organizations, and communities; and assume leadership in the public service sector, specifically in administrative and policy work with governmental units and nonprofit organizations.

Students beginning the MPA/MSW program at the MSW Foundation level must complete 81 credit hours total. Students beginning the MPA/MSW

program at the Advanced Standing level must complete 57 credit hours total.

- Master's level social workers are employed in public and private agencies, including medical settings, schools, residential treatment centers, court and correctional agencies, and community planning and development agencies.
- The MSW degree at the Grace Abbott School of Social Work is accredited by the Council on Social Work Education (CSWE), the national accrediting body for all social work education.
- Information on certification and licensure is available on the Nebraska Department of Health and Human Services website (<http://dhhs.ne.gov/Pages/default.aspx>).

## Program Related Information

### Program Contacts

#### Social Work

402.554.2793  
graceabbott@unomaha.edu

#### Public Administration

Minsoo Goo, Advisor  
402.554.4900  
mgoo@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/mpa-dual-degree-msw-mpa.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026:** November 1
  - Foundation MPA/MSW students (those who do not have an undergraduate degree in social work, BSSW) admitted for the spring term are limited to only the MPA coursework in spring and summer terms. The MSW coursework will be added in the fall term.
  - Advanced MPA/MSW students (those with an undergraduate degree in social work, BSSW) can begin both MPA and MSW coursework in the spring term.
- Fall 2026:** The priority deadline is February 1. Applications will be accepted through March 1.
  - Students who have earned or will be earning any undergraduate degree may apply for fall admission.
  - Students admitted as either Generalist MPA/MSW or Advanced Generalist MPA/MSW can begin both MSW and MPA coursework in the fall term.

Note: If admitted to the Master of Social Work program and you wish to become a dual degree MSW/MPA student you will need to adhere to the MPA deadline date which is June 1(fall) or October 1(spring).

### Other Requirements

- The general prerequisite for admission to the program is a four-year bachelors' degree with a minimum of a 3.0 GPA (on a 4.0 scale) in the junior and senior years (last 50-60 hours).
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country

on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL, 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** Two statements of purpose are required; one for the School of Public Administration and one for the Grace Abbott School of Social Work
  - For social work, the statement of purpose is an opportunity to demonstrate your understanding of and fit for the social work profession, as well as your aptitude for graduate-level social work education. The Admissions Committee pays close attention to both content and writing skills. In your statement of purpose, please address each of the items listed below, in no more than five (5) pages, double-spaced, in a 12-point font. Your response to each of the items should be roughly the same length. If your statement of purpose does not clearly and directly address each of the items or does not follow the instructions, it may not be considered.
    - Why have you chosen social work?
      - Your response should demonstrate a basic understanding of the social work profession, including what distinguishes it from other helping professions.
    - What type of work are you planning to engage with once you attain your MSW degree?
      - Specifically, what are the issues, populations, and levels of practice you hope to work with after graduate school?
    - The social work profession is rooted in improving the lives of others. Social workers adopt a stance of humility and strive towards cultural awareness.
      - Discuss a time when you realized that your personal experience influenced your reaction to a situation.
      - Reflecting on that experience, how might it influence your future social work practice?
    - Social workers are self-reflective, strengths-based, and growth-oriented.
      - Identify a strength that you possess and an area for growth.
      - Discuss how you became aware of these, how they show up in your current professional practice, and how they may influence your future professional practice.
    - Social work is a values-based profession dedicated to enhancing human wellbeing. From the core values and ethical principles identified in the NASW Code of Ethics (<https://www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English/>):
      - Identify and discuss one that resonates with you.
      - Identify and discuss one that may challenge you.
  - For public administration, the essay should answer the following questions:
    - Please tell us about the factors in your background that will help us understand your interest in a profession in the public or nonprofit sectors.
      - What are your professional goals? Ten years from now, what do you hope to be doing professionally?
      - How can this dual degree from UNO help you achieve these goals?
- **Resume:** Applicants are highly encouraged to have professional experience in the human service field. Please submit a professional resume that identifies:
  - Educational and occupational experiences since high school
    - List start and end dates with month and year
    - Identify whether the position is part or full-time
    - Identify whether the position is paid or volunteer
    - Field placements, internships or practicums
    - Honors or distinctions received

- **Letters of Recommendation:** Three letters of recommendation are required. Recommendation requests are generated from your online application. The recommendations should be from professional and academic sources who are directly familiar with your skills and experience. At least one reference should be from an immediate professional supervisor. If you have graduated from an academic program within the past three years, at least one reference should be from a faculty member who can speak directly to your academic preparation for graduate social work education. References from family members, family friends, personal friends, personal therapists, or other non-professional/academic sources will not be scored.
- An undergraduate cumulative GPA of 2.7 or higher is required to be considered for admission.

The MSW Generalist Program is a 63 credit hour program available to applicants who do **not** hold a BSSW degree from an accredited school of social work.

The MPA/MSW Advanced Generalist Program is a 57 credit hour program available to applicants who have earned a BSSW degree from an accredited school of social work within the last 10 years.

## Degree Requirements

| Code                               | Title  | Credits   |
|------------------------------------|--|-----------|
| <b>Required Generalist Courses</b> |  |           |
| SOWK 8070                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I              | 3         |
| SOWK 8080                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II             | 3         |
| SOWK 8090                          | SOCIAL WELFARE POLICY                                    | 3         |
| SOWK 8110                          | INSTITUTIONAL OPPRESSION                                 | 3         |
| SOWK 8130                          | GENERALIST PRACTICE I                                    | 3         |
| SOWK 8150                          | GENERALIST PRACTICE II                                   | 3         |
| SOWK 8160                          | GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3         |
| SOWK 8170                          | GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3         |
| <b>Total Credits</b>               |  | <b>24</b> |

<sup>1</sup> A student must receive grades of "B" or higher in practicum courses (SOWK 8160 and SOWK 8170).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8160. If a new placement is necessary, students may be required to go through the original planning process again.

| Code  | Title   | Credits |
|---|---|---------|
| <b>Required Public Administration Courses</b> |   |         |
| PA 8050                                       | FOUNDATIONS OF PUBLIC ADMINISTRATION                                      | 3       |
| PA 8090                                       | ORGANIZATION THEORY AND BEHAVIOR  | 3       |
| PA 8100                                       | ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS | 3       |
| PA 8300                                       | POLICY DESIGN AND IMPLEMENTATION  | 3       |
| PA 8400                                       | PUBLIC AND NONPROFIT BUDGETING  | 3       |
| PA 8530                                       | PLANNING AND EVALUATION   | 3       |
| PA 8990                                       | CAPSTONE PROJECT IN PUBLIC ADMINISTRATION                                 | 3       |

### Public Administration Elective

Select one of the following: 3

|         |  |   |
|---------|--|---|
| PA 8320 | PUBLIC POLICY EVALUATION                   | 3 |
| PA 8550 | INTRODUCTION TO THE NON-PROFIT SECTOR      |   |
| PA 8410 | PUBLIC HUMAN RESOURCE MANAGEMENT           |   |
| PA 8480 | SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION |   |
| PA 8520 | SEMINAR IN GRANT WRITING                   |   |
| PA 8566 | INTERGOVERNMENTAL MANAGEMENT               |   |
| PA 8600 | ADMINISTRATIVE LAW                         |   |
| PA 8740 | HEALTH CARE POLICY                         |   |
| PA 8470 | ADMINISTRATIVE ETHICS AND LEADERSHIP       |   |

#### Required Social Work Courses

|           |   |   |
|-----------|---|---|
| SOWK 8190 | RESEARCH & COMPUTER APPLICATIONS                                  | 3 |
| SOWK 8220 | CLINICAL SOCIAL WORK WITH INDIVIDUALS                             | 3 |
| SOWK 8230 | CLINICAL SOCIAL WORK WITH GROUPS                                  | 3 |
| SOWK 8540 | PLANNING FOR SOCIAL CHANGE  | 3 |
| SOWK 8290 | SOCIAL WORK PRACTICE IN HEALTH AND MENTAL HEALTH                  | 3 |
| SOWK 8510 | ETHICS, SUPERVISION, AND LEADERSHIP IN THE SOCIAL WORK PROFESSION | 3 |
| SOWK 8650 | HEALTH/MENTAL HEALTH POLICIES FOR SOCIAL WORK                     | 3 |
| SOWK 8400 | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3 |
| SOWK 8410 | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3 |

#### Social Work Electives

Select six hours of SOWK graduate courses 6

**Total Credits** 57

<sup>1</sup> A student must receive a grade of B or higher in practicum courses (SOWK 8400 and SOWK 8410).

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8400. If a new placement is necessary, students may be required to go through the original planning process again.

## Exit Requirements

- Capstone - 3 Credits PA 8990
- Satisfactory completion with a grade of B or better in SOWK 8400 and SOWK 8410

## Academic Policies and Standards

- The *Academic Policies and Standards* can be found here (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/social-work/student-resources/>).

# Social Work, MSW and Public Health, MPH (MSW/MPH)

The MSW/MPH dual degree program is a collaborative effort between the University of Nebraska Medical Center, College of Public Health, and the University of Nebraska at Omaha, Grace Abbott School of Social Work. This program offers interdisciplinary preparation in the fields of social work and

public health leading to the master of social work and the master of public health degrees, with fewer required credit hours than it would take to obtain these degrees independently.

This dual degree program prepares students to provide a variety of advanced social work services with individuals, families, groups, organizations, and communities. This dual degree also allows graduates to assume leadership in the public health sector to promote and protect physical and mental health, with a focus on population-based services, prevention, collaboration, and strategies and policies grounded in basic science.

Students beginning the MSW/MPH program at the MSW Generalist level must complete 78 credit hours total. Students beginning the MSW/MPH program at the Advanced Generalist level, must complete 54 credit hours total.

- Master's-level social workers are employed in public and private agencies, including medical settings, schools, residential treatment centers, court and correctional agencies, and community planning and development agencies.
- The MSW degree at the Grace Abbott School of Social Work is accredited by the Council on Social Work Education (CSWE), the national accrediting body for all social work education.
- Information on certification and licensure is available on the Nebraska Department of Health and Human Services' website (<http://dhhs.ne.gov/Pages/default.aspx>).

## Program Related Information

### Program Contacts

402.554.2793

[graceabbott@unomaha.edu](mailto:graceabbott@unomaha.edu)

### Program Website

UNO (<http://www.unomaha.edu/college-of-public-affairs-and-community-service/social-work/>) or UNMC (<http://www.unmc.edu/publichealth/programs/mphdualdegree/mph-msw.html>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Fall 2026:
  - MSW- The priority deadline is February 1. Applications will be accepted through March 1.
  - MPH- June 1
- The MPH application is completed online (<http://www.unmc.edu/publichealth/admissions/mphdualdegree/mph-msw.html>) through the College of Public Health at the University of Nebraska Medical Center.
  - The MSW Admissions Committee decides on admission to the MSW program; the MPH Admissions Committee decides on admission to the MPH program. A student not admitted to both programs may pursue the other degree if admitted.

### MSW Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110



- **Statement of Purpose:** The statement of purpose is an opportunity to demonstrate your understanding of and fit for the social work profession, as well as your aptitude for graduate-level social work education. The Admissions Committee pays close attention to both content and writing skills. In your statement of purpose, please address each of the items listed below, in no more than five (5) pages, double-spaced, in a 12-point font. Your response to each of the items should be roughly the same length. If your statement of purpose does not clearly and directly address each of the items or does not follow the instructions, it may not be considered.

- Why have you chosen social work?
  - Your response should demonstrate a basic understanding of the social work profession, including what distinguishes it from other helping professions.
- What type of work are you planning to engage with once you attain your MSW degree?
  - Specifically, what are the issues, populations, and levels of practice you hope to work with after graduate school?
- The social work profession is rooted in improving the lives of others. Social workers adopt a stance of humility and strive towards cultural awareness.
  - Discuss a time when you realized that your personal experience influenced your reaction to a situation.
  - Reflecting on that experience, how might it influence your future social work practice?
- Social workers are self-reflective, strengths-based, and growth-oriented.
  - Identify a strength that you possess and an area for growth.
  - Discuss how you became aware of these, how they show up in your current professional practice, and how they may influence your future professional practice.
- Social work is a values-based profession dedicated to enhancing human wellbeing. From the core values and ethical principles identified in the NASW Code of Ethics (<https://www.socialworkers.org/About/Ethics/Code-of-Ethics/Code-of-Ethics-English/>):
  - Identify and discuss one that resonates with you.
  - Identify and discuss one that may challenge you.
- **Resume:** Applicants are highly encouraged to have professional experience in the human service field. Please submit a professional resume that identifies:
  - Educational and occupational experiences since high school
    - List start and end dates with month and year
    - Identify whether the position is part or full-time
    - Identify whether the position is paid or volunteer
    - Field placements, internships or practicums
    - Honors or distinctions received
- **Letters of Recommendation:** Three letters of recommendation are required, the recommendation requests are generated from your online application. These recommendations should be from professional and academic sources who are directly familiar with your skills and experience. At least one reference should be from an immediate professional supervisor. If you have graduated from an academic program within the past two years, it is suggested that at least one reference should be from a faculty member who can speak directly to your academic preparation for graduate social work education. References from family members, family friends, personal friends, personal therapists, or other non-professional/academic sources will not be scored.
  - If transferring from another accredited MSW program, one letter must be from a current faculty member associated with that program.

- An undergraduate cumulative GPA of 2.7 or higher is required to be considered for admission.

The MSW/MPH Generalist Program is a 78-credit hour program available to applicants who do not hold a BSSW degree from an accredited school of social work.

The MSW/MPH Advanced Generalist Program is a 54-credit hour program available to applicants who have earned a BSSW degree from an accredited school of social work.

MSW/MPH dual degree students are expected to work closely with both their MSW advisor through UNO and MPH advisor through UNMC to ensure that all course requirements and exit requirements are met for each degree.

## Degree Requirements

| Code                               | Title  | Credits   |
|------------------------------------|--|-----------|
| <b>Required Foundation Courses</b> |  |           |
| SOWK 8070                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I              | 3         |
| SOWK 8080                          | HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II             | 3         |
| SOWK 8090                          | SOCIAL WELFARE POLICY                                    | 3         |
| SOWK 8110                          | INSTITUTIONAL OPPRESSION                                 | 3         |
| SOWK 8130                          | GENERALIST PRACTICE I                                    | 3         |
| SOWK 8150                          | GENERALIST PRACTICE II                                   | 3         |
| SOWK 8160                          | GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1,2</sup>  | 3         |
| SOWK 8170                          | GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,3</sup> | 3         |
| <b>Total Credits</b>               |  | <b>24</b> |

<sup>1</sup> A student must receive grades of "B" or higher in practicum courses (SOWK 8160 and SOWK 8170)

<sup>2</sup> This course requires special planning with the department. Students must go through the planning process one semester prior to the start of the course. No planning happens in the summer term.

<sup>3</sup> This course is a continuation of SOWK 8160. If a new placement is necessary, students may be required to go through the original planning process again.

| Code   | Title   | Credits |
|--|---|---------|
| <b>Required Courses</b>  |   |         |
| CPH 500  | Foundations of Public Health                                      | 3       |
| CPH 504  | Epidemiology in Public Health                                     | 3       |
| CPH 506  | Biostatistics I   | 3       |
| CPH 514  | Planning and Evaluation   | 3       |
| CPH 539  | Leadership and Advocacy   | 3       |
| 12 additional MPH credits based on chosen MPH concentration area |   | 12      |
| SOWK 8220  | CLINICAL SOCIAL WORK WITH INDIVIDUALS                             | 3       |
| SOWK 8230  | CLINICAL SOCIAL WORK WITH GROUPS                                  | 3       |
| SOWK 8290  | SOCIAL WORK PRACTICE IN HEALTH AND MENTAL HEALTH                  | 3       |
| SOWK 8540  | PLANNING FOR SOCIAL CHANGE  | 3       |
| SOWK 8510  | ETHICS, SUPERVISION, AND LEADERSHIP IN THE SOCIAL WORK PROFESSION | 3       |
| SOWK 8650  | HEALTH/MENTAL HEALTH POLICIES FOR SOCIAL WORK                     | 3       |

|                                  |   |           |
|----------------------------------|---|-----------|
| SOWK 8400                        | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM I <sup>1</sup>    | 3         |
| SOWK 8410                        | ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM II <sup>1,2</sup> | 3         |
| Choose One Social Work Elective: |   | 3         |
| SOWK 8240                        | SOCIAL WORK PRACTICE WITH CHILDREN                                |           |
| SOWK 8260                        | SOCIAL WORK PRACTICE WITH OLDER ADULTS                            |           |
| SOWK 8280                        | SOCIAL WORK PRACTICE WITH COUPLES AND CHANGING FAMILY STRUCTURES  |           |
| SOWK 8250                        | SOCIAL WORK PRACTICE WITH FAMILIES                                |           |
| <b>Total Credits</b>             |   | <b>54</b> |

<sup>1</sup> SOWK 8400 and SOWK 8410 requires joint program approval to also meet the MPH requirements for CPH 528 APEx and CPH 529 Capstone.

<sup>2</sup> This course is a continuation of SOWK 8400. If a new placement is necessary, students may be required to go through the original planning process again.

### Exit Requirement

Satisfactory completion with a grade of B or better in SOWK 8400 and SOWK 8410

## Academic Policies and Standards

The *MSW Student Handbook* can be found here (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/social-work/academic-programs/msw-program.php>).

## Managing Juvenile and Adult Populations Certificate

A unique program specifically designed for professionals working with juveniles and adults who are in contact with the criminal justice system as victims, offenders, or family members.

## Program Related Information

### Program Contact

Mark Foxall, PhD, CJM, Master of Science Program Coordinator  
402.554.2610  
[markfoxall@unomaha.edu](mailto:markfoxall@unomaha.edu)

402.554.2793  
[graceabbott@unomaha.edu](mailto:graceabbott@unomaha.edu)

**Program Website (<http://www.unomaha.edu/college-of-public-affairs-and-community-service/criminology-and-criminal-justice/graduate-programs/graduate-certificate.php>)**

This certificate can be obtained entirely online. All courses for the certificate will be offered online in a two-year rotation. Elective courses in criminology and criminal justice are also offered in the spring, summer and fall semesters.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- **Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

## Other Requirements

- GPA of 2.75 or higher
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Paper-based TOEFL: 588, Internet-based TOEFL: 95 with a minimum of 21 in each of the four areas, IELTS: 7.5 (8.0 preferred), PTE: 76, Duolingo: 115
- **Statement of Purpose:** The statement should include how the certificate will help you achieve your professional goals.
- **Resume**

## Degree Requirements

| Code   | Title   | Credits   |
|--|---|-----------|
| <b>Required Courses</b>  |   |           |
| SOWK 8886  | TOPICAL SEMINAR IN SOCIAL WORK                              | 3         |
| or SOWK 8626   | TRAUMA AND RESILIENCE                                       |           |
| or SOWK 8836   | CRISIS INTERVENTION   |           |
| SOWK/COUN 8686   | MEDICAL AND PSYCHOSOCIAL ASPECTS OF SUBSTANCE USE DISORDERS | 3         |
| CRCJ 8080  | SEMINAR IN JUVENILE JUSTICE                                 | 3         |
| CRCJ 8850  | RISK/NEEDS ASSESSMENT                                       | 3         |
| Select three additional graduate credit hours in consultation with your advisor. |   | 3         |
| <b>Total Credits</b>   |   | <b>15</b> |

## Sociology

Degree Programs Offered

- Sociology, MA (p. 1187)

## Certificate Programs Offered

- Sociology, Graduate Certificate (p. 1189)

## Sociology, MA

The MA in sociology offers students the opportunity to use social science theories and methods in applied settings with the goal of solving social problems. The program is constructed around a core set of seminars, including an introductory course on applied sociology and anthropology as well as a capstone experience. Required core and elective courses focus on the application of concepts, theories and methodologies of sociology and anthropology in applied or community engaged research. Students who complete this degree are prepared for careers in social advocacy, research, teaching, human or social services, and work in nonprofit, for profit, and government organizations. The degree is flexible and interdisciplinary and can be completed in two years.

## Program Related Information

### Program Contact

402.554.2626

unogradsocanth@unomaha.edu

**Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/sociology-and-anthropology/academics/graduate.php>)**

### Fast Track Program

The Department of Sociology & Anthropology has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

#### Program Specifics:

- This program is available for undergraduate students pursuing a BA/BS in sociology who are desiring to pursue an MA in sociology.
- Students must have completed no less than 60 undergraduate hours.
- Students must have a minimum undergraduate GPA of 3.0 and a GPA of 3.3 in SOC and ANTH courses.
- Students must complete the Fast Track Approval form, obtain all signatures, and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
  - ANTH 1050, SOC 1010, SOC 2120, SOC 2130, SOC 2134 should be completed before enrolling in the first graduate course.
  - SOC 3510 and SOC 3514 should be taken before or concurrently with enrollment in the first graduate course.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status, including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
- Admission to Fast Track does NOT guarantee admission to the graduate program.
- The admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- **Spring 2026 and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

If you are applying for a **graduate assistantship**, both admissions and assistantship application materials should be completed by **February 15** (for Fall Semester). Review of materials begins soon after February 15 and continues until the graduate assistantship position is filled.

## Other Requirements

- Baccalaureate degree or previous master's degree with a minimum 3.0 GPA.
- Applicants for admission to the graduate program in sociology should present a minimum of 15 undergraduate credit hours in the following social science courses:
  - Statistics, research methods, and social theory
  - A minimum of six additional hours of sociology or other social science courses
- Undergraduate courses in statistics, research methods, and social theory are required before the student can enroll in the graduate courses in the same areas.
  - Students without the specific prerequisite courses may be admitted provisionally, but deficiencies should be removed in the first year of graduate study.
  - All prerequisite courses must be passed with a grade of "B" (3.0 on a 4.0 scale) or better.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80 (no sub-score under 15), IELTS: 6.5, PTE: 53, Duolingo: 110
  - Passing with a minimum score does not guarantee admission into the program.
- **Statement of Purpose:** Outline your career goals, why a graduate degree in Sociology will help you attain these goals, and why the UNO MA in sociology is a good fit. Make sure your statement includes the following components:
  - Discuss how your academic goals fit into the Department of Sociology & Anthropology's strengths and areas of research.
  - Detail your research interests and how these interests are sociological.
  - Provide a brief (1-2 paragraph) personal statement regarding the development of your academic interest in Sociology.
- **Writing Sample:** Submission of an academic, research-based writing sample. The sample must be written in English, include citations, and be a minimum of five pages in length. This writing sample can be a previous assignment. If no such paper exists, the applicant should contact the graduate program chair for an alternative assignment.
- **Resume:** The resume should highlight the education and employment experiences that are especially relevant to graduate work in sociology.
- **Optional:** One letter of recommendation from a reference who can evaluate your work and/or academic achievements.
- GRE scores are not required for admission; however, students are welcome to submit them.

## Degree Requirements

| Code                    | Title   | Credits |
|-------------------------|---|---------|
| <b>Required Courses</b> |   |         |
| SOC 8000                | SEMINAR IN APPLIED SOCIOLOGY AND ANTHROPOLOGY | 3       |
| SOC 8030                | APPLIED RESEARCH DESIGN AND METHODS           | 3       |
| SOC 8040                | APPLIED DATA ANALYSIS & INTERPRETATION        | 3       |
| SOC 8070                | APPLIED THEORY                                | 3       |
| SOC 8970                | CAPSTONE IN APPLIED SOCIOLOGY & ANTHROPOLOGY  | 3       |

**Electives****15**

Elective courses will be chosen in consultation with the GPC and/or your advisor. The department offers a rotating selection of elective courses based on faculty specialty areas. Students may take up to nine hours outside of sociology. All outside courses must be relevant to the student's interest area within sociology and should be approved by the GPC and/or advisor.

**Special Note**

Students who were undergraduate students at UNO cannot take a dual-listed course at the graduate level if they have already taken the course at the undergraduate level.

**Total Credits****30****Exit Requirement**

Satisfactory completion of SOC 8970

## Sociology Certificate

The graduate certificate in sociology is a flexible 18 credit hour program. It is ideal for educators and other degree-holding professionals who want to enhance their sociological knowledge and gain insight into our present-day world. It is designed to meet the needs of:

- High school educators who seek credentials to teach dual enrollment in sociology and are required to have 18 graduate credit hours in the discipline to be eligible;
- Part-time and full-time UNO graduate students in related fields;
- Professionals, especially those employed in social services and non-profits who engage in research/evaluation, who strive to complement and expand their knowledge of social inequality and its implications.###

This certificate can be earned independently of the MA in sociology or in conjunction with it.

## Program Related Information

**Program Contact**

402.554.2626

unogratsocanth@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/sociology-and-anthropology/academics/graduate-studies-main.php>)**

## Admissions

General Application Requirements and Admission Criteria (<https://catalog.unomaha.edu/graduate/admission/>)

**Application Deadlines**

- **Spring 2026 and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

**Other Requirements**

- BA or MA with an overall GPA of 3.0
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum

language proficiency score requirement in order to be considered for admission.

- Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- **Writing Sample:** Provide an academic-style writing sample, approximately 5pp in length

## Degree Requirements

| Code   | Title  | Credits   |
|--|--|-----------|
| <b>Required Courses</b>  |  |           |
| SOC 8050   | SEMINAR ON TEACHING: PEDAGOGICAL THEORY AND PRACTICE | 3         |
| SOC 8100   | SOCIAL INEQUALITY                                    | 3         |
| <b>Electives</b>   |  | <b>12</b> |
| Graduate Sociology courses (3 of the 12 hours must be graduate only 8xx0 coursework) |  |           |
| <b>Total Credits</b>   |  | <b>18</b> |

## Special Education

### Degree Programs Offered

- Special Education, MS (p. 1189)

### Certificate Offered

- Dyslexia Specialist Certificate (p. 1192)

## Special Education, MS

The mission of the Special Education and Communication Disorders Department (SECD) is to prepare dedicated practitioners, reflective scholars, and responsible citizens to facilitate, design, implement, and evaluate programs to support people with varying abilities in educational settings and the community across the lifespan. Our candidates develop essential interpersonal skills that enable them to become valued members of collaborative, interdisciplinary teams.

SECD accomplishes this mission by creating opportunities for the acquisition and maintenance of knowledge and skills, aligned with the Council for Exceptional Children, the Council on Academic Accreditation in Audiology and Speech-Language Pathology (for graduate program only), and state and federal regulations.

## Program Related Information

**Program Contact**

402.554.2201

unosecd@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/special-education-communication-disorders/graduate/special-education.php>)**

**Other Program Related Information**

Candidates seeking a master's degree in special education must meet the criteria for admission to the Graduate College and the department. Graduate-level hours taken as a non-degree student may be subsequently included in a program of study at the discretion of the graduate program committee and the dean for graduate studies. The department adheres to all restrictions on non-degree students. No student with non-degree status may enroll in a practicum course. Candidates completing the

degree program meet the academic requirements for PK-6, K-6 or 7-12 endorsement by the Nebraska Department of Education. Candidates may complete practicum experiences at both the K-6 and 7-12 levels. One of these practicum experiences may be completed in the candidate's classroom. The other must be completed outside the candidate's classroom.

## Initial Certification

The accelerated special education concentration (AC-SEP) is an accelerated program that is designed for individuals with a baccalaureate degree or higher who wish to earn an Initial Teaching Certificate issued by the Nebraska Department of Education to teach special education (K-6 or 7-12). Students who successfully complete the qualifications MS in special education with the accelerated special education concentration will be eligible for Nebraska certification in special education.

Initial certification requires completion of 100 hours of practicum experience.

## Unclassified Students

Students who are not planning to pursue a program leading to a graduate certificate or a master's degree can be admitted to the special education program as unclassified students. Candidates holding a previous master's degree in education who are seeking additional teaching endorsements may wish to choose an unclassified status. Unclassified students are allowed to take courses for which they meet the prerequisite. Successful completion of graduate courses as an unclassified student does not obligate the department to accept those courses for credit toward the fulfillment of degree requirements. Formal advisement in an endorsement area is required.

## Praxis II Content Test Information

All candidates seeking an endorsement in special education (special education generalist, 33-hour behavior intervention specialist and accelerated SPED) for the first time, are required to receive a passing score on the Praxis II content test in each endorsement area of their preparation prior to the endorsement being recommended. This link (<http://www.ets.org/praxis/ne/requirements/>) will take you to the ETS website page for the Nebraska Department of Education requirements, which lists the Nebraska requirements for each endorsement area.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

- Spring 2026: December 1
- Summer 2026: May 1
- Fall 2026: August 1

## Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** Include a formal written statement, at least one page in length, of why you want to pursue a master's degree in special education. Explain your current job/position, career goals and additional experiences with individuals with disabilities.
- **Letters of Recommendation:** Two letters of professional/academic recommendation are required. These recommenders should be able to speak to the graduate's undergraduate academic work, the

applicant's potential to do graduate work, and/or the applicant's professional competence.

- Copy of teaching certificate (except for the Accelerated Program for Special Education concentration)
- All candidates must have completed TED 2300 Human Growth and Learning, SPED 1500 Introduction to Special Education or SPED 8030 Teaching Students with Exceptionalities (or an equivalent to any of these), and methods courses in reading and math.

## Degree Requirements

| Code                             | Title                                     | Credits |
|----------------------------------|---|---------|
| <b>Concentration</b>             |   |         |
| Select an area of concentration: |   |         |
|                                  | Accelerated Program for Special Education |         |
|                                  | Behavior Intervention Specialist          |         |
|                                  | Dyslexia Specialist                       |         |
|                                  | Special Education Generalist              |         |

## Exit Requirements

Once course work is completed candidates must successfully pass a comprehensive examination or write a thesis to receive a Master of Science degree.

| Code      | Title                     | Credits |
|-----------|---------------------------|---------|
|           | Comprehensive Examination |         |
| SPED 8990 | THESIS                    | 6       |

All candidates should carefully review the Graduate College requirements for forming the supervisory committee, Thesis/Thesis Equivalent Proposal Approval forms and final approval and submission of the thesis.

All candidates must complete 6 credit hours in SPED 8990 in order to receive a Master's of Science degree in special education.

## Graduate-Level Practicums

All candidates must obtain the permission of their academic advisor prior to applying for and registering for practicums. All candidates who are adding an endorsement must complete one (or more) practicum experience(s) as part of their preparation. At least one of these experiences must be an all-day, 16-week experience in the endorsement area. **Applications will not be considered unless all materials are submitted by September 15 for spring practicum and February 1 for fall practicum.**

The department will issue a permit that allows the candidate to enroll in the appropriate practicum course. It is the candidate's responsibility to apply for the proper course. Professional seminars are required as part of the experience and attendance is mandatory.

Candidates may be removed from their placement at the request of the candidate, department, or school district/community agency.

## Concentrations

### Accelerated Special Education Program Concentration

| Code                | Title                                   | Credits |
|---------------------|---|---------|
| <b>Core Courses</b> |   |         |
| SPED 8030           | TEACHING STUDENTS WITH EXCEPTIONALITIES | 3       |
| SPED 8120           | HIGH INCIDENCE DISABILITIES             | 3       |
| SPED 8980           | PROFESSIONAL COLLABORATION              | 3       |

### Concentration Courses



|  |   |          |
|--|---|----------|
| SPED 8236  | LANGUAGE DEVELOPMENT AND DISORDERS FOR TEACHERS                       | 3        |
| or SPED 8656   | TRANSITION PLANNING   |          |
| SPED 8580  | INSTRUCTIONAL METHODS AND INTERVENTIONS IN SPECIAL EDUCATION          | 3        |
| SPED 8720  | GRADUATE PRACTICUM IN SPECIAL EDUCATION                               | 3        |
| SPED 8816  | BEHAVIOR INTERVENTIONS AND SUPPORTS                                   | 3        |
| SPED 8016  | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS              | 3        |
| SPED 8910  | ASSESSMENT IN SPECIAL EDUCATION                                       | 3        |
| SPED 8250  | LITERACY ASSESSMENT AND INTERVENTIONS FOR STUDENTS WITH DISABILITIES  | 3        |
| <b>Electives* Select 9 hours from the following:</b> |   | <b>9</b> |
| TED 8210   | EQUITY AND SOCIAL JUSTICE IN EDUCATION                                |          |
| TED 8470   | TEACHING THE LANGUAGE ARTS  |          |
| TED 8310   | HUMAN DEVELOPMENT - CONTEMPORARY IMPLICATIONS FOR TEACHING & LEARNING |          |
| TED 8300   | EFFECTIVE TEACHING PRACTICES  |          |
| TED 8560   | TECHNOLOGY FOR DIVERSE LEARNERS                                       |          |

\*To be eligible for certification all courses in the elective list will need to be satisfactorily completed.

**Total Credits** **39**

## Behavior Intervention Specialist Concentration

| Code  | Title   | Credits |
|---|---|---------|
| <b>Prerequisites</b>  |   |         |
| All candidates must have completed the following prerequisite courses or an equivalent. |   |         |
| an undergraduate reading methods course   |   |         |
| an undergraduate math methods course  |   |         |
| SPED 8030   | TEACHING STUDENTS WITH EXCEPTIONALITIES                                       |         |
| <b>Core Courses</b>   |   |         |
| SPED 8120   | HIGH INCIDENCE DISABILITIES   | 3       |
| SPED 8250   | LITERACY ASSESSMENT AND INTERVENTIONS FOR STUDENTS WITH DISABILITIES          | 3       |
| SPED 8810   | RESEARCH METHODS IN SPECIAL EDUCATION   | 3       |
| SPED 8910/TED 8850  | ASSESSMENT IN SPECIAL EDUCATION   | 3       |
| SPED 8980   | PROFESSIONAL COLLABORATION  | 3       |
| <b>Concentration Courses</b>  |   |         |
| SPED 8820   | CHARACTERISTICS OF EMOTIONAL AND BEHAVIORAL DISORDERS                         | 3       |
| SPED 8830   | GRADUATE PRACTICUM IN BEHAVIOR INTERVENTION SPECIALIST                        | 3       |
| or SPED 8840  | ADVANCED PRACTICUM IN BEHAVIOR INTERVENTION SPECIALIST                        |         |
| SPED 8850   | INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH EMOTIONAL AND BEHAVIORAL DISORDERS | 3       |
| SPED 8860   | BEHAVIOR MODIFICATION   | 3       |

|                      |   |           |
|----------------------|---|-----------|
| SPED 8870            | AUTISM SPECTRUM DISORDERS: BEHAVIORAL SUPPORT AND INTERVENTIONS | 3         |
| SPED/COUN 8016       | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS        | 3         |
| SPED 8816            | BEHAVIOR INTERVENTIONS AND SUPPORTS <sup>1</sup>                | 3         |
| SPED/COUN 8656       | TRANSITION PLANNING <sup>2</sup>                                | 3         |
| <b>Total Credits</b> |   | <b>36</b> |

<sup>1</sup> PK-6 must take SPED 8816

<sup>2</sup> 7-12 must take SPED 8656

## Dyslexia Specialist Concentration

| Code                         | Title  | Credits   |
|------------------------------|--|-----------|
| <b>Core Courses</b>          |  |           |
| SPED 8016                    | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS     | 3         |
| SPED 8120                    | HIGH INCIDENCE DISABILITIES                                  | 3         |
| SPED 8580                    | INSTRUCTIONAL METHODS AND INTERVENTIONS IN SPECIAL EDUCATION | 3         |
| SPED 8720                    | GRADUATE PRACTICUM IN SPECIAL EDUCATION                      | 3         |
| SPED 8810                    | RESEARCH METHODS IN SPECIAL EDUCATION                        | 3         |
| SPED 8910                    | ASSESSMENT IN SPECIAL EDUCATION                              | 3         |
| SPED 8980                    | PROFESSIONAL COLLABORATION                                   | 3         |
| <b>Concentration Courses</b> |  |           |
| SPED 8260                    | DYSLEXIA: FOUNDATIONS & SCIENCE OF READING                   | 3         |
| SPED 8360                    | DYSLEXIA: LANGUAGE ESSENTIALS                                | 3         |
| SPED 8660                    | DYSLEXIA: ASSESSMENT FOR INSTRUCTIONAL PLANNING              | 3         |
| SPED 8690                    | DYSLEXIA: STRUCTURED LITERACY INSTRUCTION                    | 3         |
| SPED 8760                    | DYSLEXIA: PRACTICUM  | 3         |
| <b>Optional Course</b>       |  |           |
| SPED 8790                    | DYSLEXIA: ADVANCED PRACTICUM                                 |           |
| <b>Total Credits</b>         |  | <b>36</b> |

## Generalist Concentration

| Code                                    | Title  | Credits |
|---|--|---------|
| <b>Prerequisites</b>                    |  |         |
| an undergraduate reading methods course |  |         |
| an undergraduate math methods course    |  |         |
| <b>Core Courses</b>                     |  |         |
| SPED 8120                               | HIGH INCIDENCE DISABILITIES  | 3       |
| SPED 8250                               | LITERACY ASSESSMENT AND INTERVENTIONS FOR STUDENTS WITH DISABILITIES | 3       |
| SPED 8810                               | RESEARCH METHODS IN SPECIAL EDUCATION                                | 3       |
| SPED 8910                               | ASSESSMENT IN SPECIAL EDUCATION                                      | 3       |
| SPED 8900                               | SPECIAL EDUCATION LAW  | 3       |
| SPED 8980                               | PROFESSIONAL COLLABORATION   | 3       |
| <b>Generalist Concentration Courses</b> |  |         |
| SPED 8236                               | LANGUAGE DEVELOPMENT AND DISORDERS FOR TEACHERS                      | 3       |

|           |  |   |
|-----------|--|---|
| SPED 8580 | INSTRUCTIONAL METHODS AND INTERVENTIONS IN SPECIAL EDUCATION | 3 |
| SPED 8720 | GRADUATE PRACTICUM IN SPECIAL EDUCATION                      | 3 |
| SPED 8816 | BEHAVIOR INTERVENTIONS AND SUPPORTS                          | 3 |

**Generalist Concentration Option Courses**

Select one of the following options: 6

K-6 Option—Select six hours from the following:

|                |   |
|----------------|---|
| SPED/COUN 8016 | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS                      |
| SPED/COUN 8656 | TRANSITION PLANNING   |
| SPED 8820      | CHARACTERISTICS OF EMOTIONAL AND BEHAVIORAL DISORDERS                         |
| SPED 8850      | INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH EMOTIONAL AND BEHAVIORAL DISORDERS |
| SPED 8870      | AUTISM SPECTRUM DISORDERS: BEHAVIORAL SUPPORT AND INTERVENTIONS               |

Or other course as approved by your advisor

7-12 Option:

|                |                     |
|----------------|---------------------|
| SPED/COUN 8656 | TRANSITION PLANNING |
|----------------|---------------------|

Select three hours from the following:

|           |   |
|-----------|---|
| SPED 8016 | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS  |
| SPED 8820 | CHARACTERISTICS OF EMOTIONAL AND BEHAVIORAL DISORDERS   |
| SPED 8850 | INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH EMOTIONAL AND BEHAVIORAL DISORDERS                           |
| SPED 8870 | AUTISM SPECTRUM DISORDERS: BEHAVIORAL SUPPORT AND INTERVENTIONS (Other course approved by your advisor) |

**Total Credits** 36

## Academic Performance

A student can enroll only twice in each graduate course included on a plan of study. If the course is not successfully completed on the second attempt, the student will be dismissed from the program. An enrollment is defined as being enrolled in the course after the last day to withdraw via MavLINK and receive a 100% refund. The last day to withdraw will be stated in the current academic calendar. (<https://www.unomaha.edu/registrar/academic-calendar.php>) In addition to the Quality of Work Standards established by the Graduate College, students may only repeat a graduate level course on a plan of study one time in which they receive any grade, including "W" or "I".

## Dyslexia Specialist Certificate

This graduate certificate program aims to provide advanced training on dyslexia. The scope of this certificate program will provide students with a combination of advanced content and pedagogical knowledge about dyslexia and the science of reading, as well as supervised application opportunities during a practicum experience. This program will also support interested participants in preparing their application for national certification from the Center for Effective Reading Instruction (CERI).

## Program Related Information

### Program Contact

402.554.2201  
 uno (unosecd@unomaha.edu)secd@unomaha.edu  
 (sdeveney@unomaha.edu)

### Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/special-education-communication-disorders/graduate/dyslexia-specialist-certificate.php>)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Fall 2026: April 1

### Other Requirements

- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Statement of Purpose:** Include a formal written statement, at least one page in length, explaining why you want to obtain the dyslexia specialist certificate. Provide information regarding your current job/position, career goals and additional experiences with individuals with disabilities.

This certificate program is a 15-credit hour program with a set course sequence. There will be an option for a subset of students interested in applying for national certification to take one additional 3 credit hour practicum course to fulfill national certification standards. Students will take all courses in a prescribed sequence designed to introduce, scaffold, and reinforce content knowledge across courses. The scope and sequence of the program, and all course objectives, have been designed to align with the *Knowledge and Practice Standards for Teachers of Reading* published by the International Dyslexia Association.

## Degree Requirements

| Code                   | Title   | Credits   |
|------------------------|---|-----------|
| SPED 8260              | DYSLEXIA: FOUNDATIONS & SCIENCE OF READING      | 3         |
| SPED 8360              | DYSLEXIA: LANGUAGE ESSENTIALS                   | 3         |
| SPED 8660              | DYSLEXIA: ASSESSMENT FOR INSTRUCTIONAL PLANNING | 3         |
| SPED 8690              | DYSLEXIA: STRUCTURED LITERACY INSTRUCTION       | 3         |
| SPED 8760              | DYSLEXIA: PRACTICUM                             | 3         |
| <b>Optional Course</b> |   |           |
| SPED 8790              | DYSLEXIA: ADVANCED PRACTICUM                    |           |
| <b>Total Credits</b>   |   | <b>15</b> |

# Speech-Language Pathology, MS

The mission of the Special Education and Communication Disorders Department (SECD) is to prepare dedicated practitioners, reflective scholars, and responsible citizens to facilitate, design, implement, and evaluate programs to support people with varying abilities in educational settings and the community across the lifespan. Our candidates develop essential interpersonal skills that enable them to become valued members of collaborative, interdisciplinary teams.

SECD accomplishes this mission by creating opportunities for the acquisition and maintenance of knowledge and skills, aligned with the Council for Exceptional Children, the Council on Academic Accreditation in Audiology and Speech-Language Pathology (for graduate program only), and state and federal regulations.

## Program Related Information

### Program Contact

402.554.2201

[unosecd@unomaha.edu](mailto:unosecd@unomaha.edu) ([sseveney@unomaha.edu](mailto:sseveney@unomaha.edu))

**Program Website (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/special-education-communication-disorders/graduate/speech-language-pathology.php>)**

### Program Description

The Master of Science (MS) education program in speech-language pathology (residential) at the University of Nebraska at Omaha is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (<https://caa.asha.org/>) (CAA) of the American Speech-Language-Hearing Association (<https://www.asha.org/>). The next accreditation will be in 2028.

Contact information for the accrediting body:  
Council on Academic Accreditation in Audiology and Speech-Language Pathology  
American Speech-Language Hearing Association  
2200 Research Boulevard #310  
Rockville, MD 20850  
Phone: 800.498.2071

The program also is accredited by the Nebraska Department of Education. The University of Nebraska at Omaha is authorized and in good standing with Nebraska's Coordinating Commission for Postsecondary Education (CCPE) to provide the Master of Science in Speech-Language Pathology program.

The graduate program in speech-language pathology is designed to prepare speech-language pathologists for Nebraska teacher certification, state licensure, and certification by the American Speech-Language-Hearing Association.

### Fast Track Program

The Department of Special Education and Communication Disorders has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to six (6) graduate hours toward the completion of their undergraduate program as well as the graduate program.

Program Specifics:

- This program is available for undergraduate students pursuing a Bachelor of Science in Education in communication disorders desiring to pursue a MS in speech-language pathology (SLP) at UNO.
- Students must submit the departmental application to be considered for the Fast Track program.
  - Complete the department application in March of the junior year (no less than 60 undergraduate hours). Application requirements are:
    - Successfully completed CDIS 2420, CDIS 2550, CDIS 2380, CDIS 3390, CDIS 3450, CDIS 3460, CDIS 3370 with a grade of B or better
    - 3.5 undergraduate GPA
    - Resume
    - Statement of Purpose (Please include the following in your response: Your aptitude and motivation for graduate study in speech-language pathology; your preparation for this field of study; your viewpoint on the value of diversity, equity, and inclusion in the field of speech-language pathology; your academic plans or research interests; and why would UNO be a good intellectual fit for you?)
- If the departmental application is approved, students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses (for a total of six [6] graduate credit hours).
  - During the fall semester of the senior year, students will register for CDIS 8310 and CDIS 8560
  - During the spring semester of the senior year, students will register for CDIS 8420
- A minimum cumulative GPA of 3.0 is required for the graduate course work to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all the rights and privileges granted undergraduate status including financial aid.
- Formal application to the graduate program is required by January 15 of the student's senior year. The application fee will be waived, the applicant must contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does not guarantee admission to the graduate program.
  - Fast Track students must successfully complete their undergraduate BS degree with a minimum cumulative GPA of 3.5 and all graduate courses with a minimum of 3.0 or better, be in good standing, and complete formal graduate admission application to be considered for full admission into the speech-language pathology graduate program.
  - The official admit term must be after the completion term of the undergraduate degree.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Fall 2026: January 15 for all application materials

### Other Requirements

- A bachelor's degree in speech-language pathology or communication disorders; or if bachelor's degree in another field, must have completed the following courses in communication disorders:

| Code      | Title                                  | Credits |
|-----------|--|---------|
| CDIS 2420 | EARLY LANGUAGE DEVELOPMENT IN CHILDREN |         |

|           |  |
|-----------|--|
| CDIS 4750 | INTRODUCTION TO CHILDHOOD LANGUAGE DISORDERS   |
| CDIS 3450 | PHONETICS                                      |
| CDIS 3430 | ARTICULATION AND PHONOLOGICAL DISORDERS        |
| CDIS 3370 | BASIC AUDIOLOGY                                |
| CDIS 3330 | AURAL REHABILITATION                           |
| CDIS 4490 | INTRODUCTION TO PROFESSIONAL PRACTICES         |
| CDIS 4500 | PRINCIPLES OF ASSESSMENT AND INTERVENTION      |
| CDIS 2380 | ANATOMY AND PHYSIOLOGY OF THE SPEECH MECHANISM |
| CDIS 4470 | NEUROPHYSIOLOGY OF SPEECH AND LANGUAGE         |
| CDIS 4480 | RESEARCH METHODS IN COMMUNICATION DISORDERS    |

Chemistry or physics, statistics, biological sciences (e.g., biology, human anatomy or physiology), social/behavioral sciences (e.g., psychology, sociology, anthropology or public health) courses.

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** Address the following (not to exceed two pages):
  - Please describe your aptitude and motivation for graduate study in speech-language pathology.
  - Your preparation for this field of study.
  - Your academic plans or research interests.
  - Why would UNO be a good intellectual fit for you?
- **Letters of Recommendation:** Two letters from references who are familiar with your strengths and weaknesses in respect to academic/clinical work, and motivation to complete a graduate degree in speech-language pathology. Ensure recommenders are competent to judge your probability of success in graduate school for speech-language pathology.
- **Resume**
- The program may conduct applicant interviews.

## Degree Requirements

- In addition to satisfactory academic and clinical aptitude, candidates are expected to demonstrate Core Functions. These skills include academic and non-academic components necessary for graduate study and professional practice. Candidates must demonstrate skills and attributes in six areas: communication, motor, sensory, intellectual-cognitive, interpersonal, and cultural responsiveness. These core functions enable candidates to meet graduate and professional requirements as measured by state licensure and national certification. Candidates will review the Core Functions during orientation, mid-term of first semester and then on an as needed basis. (Council of Academic Programs in Communication and Sciences and Disorders, 2023).
- Candidates must successfully complete the following within the **first 30 days** of enrollment:
  - A background check and Nebraska Adult and Child Abuse & Neglect Registry Release prior to enrollment and prior to each clinical field placement (externship). The background check must be conducted in the time frame and by the vendor determined by the College of Education, Health, and Human Sciences. The candidate is responsible for the costs associated.
  - A ten-panel drug screen prior to medical clinical field placement (externship). The drug screen must be completed in the time frame established by the program and results must be submitted directly to the program. The candidate is responsible for the costs associated.
  - Academic integrity is expected for all interactions and requirements. This includes, but is not limited to: original work on exams, accountability and completion of requirements, maintenance of confidentiality for individuals and class discussions when appropriate, and accurate citation for original work. Plagiarism will result in an automatic failing grade for the assignment. Please refer to the UNO Academic Integrity Policy for more specific descriptions of academic integrity violations.
  - Each candidate must take the Praxis II - Subject Assessment test. Scores must be submitted prior to applying for graduation. Scores must be sent to UNO directly from ETS, using code RA0174.

| Code  | Title   | Credits |
|---|---|---------|
| <b>Required Courses</b>   |   |         |
| CDIS 8200   | ADVANCED STUDY OF PEDIATRIC SPEECH SOUND DISORDERS  | 2       |
| CDIS 8240   | LANGUAGE DISORDERS IN SCHOOL-AGE CHILDREN   | 3       |
| CDIS 8310   | ADVANCED AUDIOLOGY FOR THE SPEECH-LANGUAGE PATHOLOGIST  | 1       |
| CDIS 8410   | MOTOR SPEECH DISORDERS  | 3       |
| CDIS 8420   | VOICE DISORDERS   | 3       |
| CDIS 8430   | FLUENCY DISORDERS   | 3       |
| CDIS 8440   | APHASIA   | 3       |
| CDIS 8460   | COGNITIVE-LINGUISTIC DISORDERS RELATED TO DEMENTIA  | 1       |
| CDIS 8490   | COGNITIVE-COMMUNICATION DISORDERS RELATED TO RIGHT HEMISPHERE BRAIN DAMAGE & TRAUMATIC BRAIN INJURY | 2       |
| CDIS 8500   | BASIC CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY <sup>1</sup>                                  | 6       |
| CDIS 8510   | EDUCATIONAL EXTERNSHIP IN COMMUNICATION DISORDERS <sup>4</sup>                                      | 4       |
| CDIS 8520   | MEDICAL EXTERNSHIP IN COMMUNICATION DISORDERS <sup>4</sup>  | 4       |
| CDIS 8540   | AUTISM SPECTRUM DISORDER  | 2       |
| CDIS 8560   | AUGMENTATIVE & ALTERNATIVE COMMUNICATION  | 2       |
| CDIS 8570   | DYSPHAGIA   | 3       |
| CDIS 8590   | EARLY INTERVENTION: BIRTH TO FIVE   | 2       |
| CDIS 8900   | SPEECH-LANGUAGE PATHOLOGY COMPREHENSIVE ASSESSMENT  | 0       |
| <b>Electives</b>  |   |         |
| Student, in consultation with an advisor, will select an elective. The 3 hours of elective credit will be waived if the thesis option is chosen. The following list is a sampling of recommended electives: |   | 3       |
| SPED 8016   | MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS  |         |
| SPED 8030   | TEACHING STUDENTS WITH EXCEPTIONALITIES   |         |

|                         |  |
|-------------------------|--|
| SPED 8120               | HIGH INCIDENCE DISABILITIES  |
| SPED 8250               | LITERACY ASSESSMENT AND INTERVENTIONS FOR STUDENTS WITH DISABILITIES |
| SPED 8656               | TRANSITION PLANNING  |
| SPED 8980/<br>TED 8850  | PROFESSIONAL COLLABORATION   |
| CDIS 8556               | SPECIAL NEEDS STUDENTS FROM DIVERSE COMMUNITIES                      |
| SPED 8820               | CHARACTERISTICS OF EMOTIONAL AND BEHAVIORAL DISORDERS                |
| SPED 8900               | SPECIAL EDUCATION LAW  |
| GERO/PSYC 8476          | MENTAL HEALTH AND AGING  |
| GERO 8506               | LEGAL ASPECTS OF AGING   |
| GERO 8676               | PROGRAMS AND SERVICES FOR OLDER ADULTS                               |
| GERO 8696/<br>SOWK 8046 | AGING AND DIVERSITY  |

**Total Credits****47**<sup>1</sup> CDIS 8500 (register three times)<sup>2</sup> CDIS 8510 (Schools). Placements for this practicum are made as space permits.<sup>3</sup> CDIS 8520 (Hospitals; Rehabilitation Centers). Placements for this practicum are made as space permits.<sup>4</sup> CDIS 8510 and CDIS 8520 each will be taken once for four credit hours each. Students must earn a grade of "B" or better in each of these courses, as students may not retake either course. Failure to achieve a grade of "B" or better in either course will result in automatic dismissal from the program. Withdrawal from 8510 or 8520 is contingent upon written permission of the advisor and current grade of B or better at the time of requested withdrawal. These varied practica are designed to provide the candidate with a wide range of clinical experiences with individuals across the age span, cultural backgrounds, cognitive levels, and disability categories.**\*\*All student clinicians need to earn a B or higher in order to pass externships. Externships may not be retaken.**

## Exit Requirements

- Complete a minimum of 400 clinical clock hours.
- Successfully complete the Clinical Cumulative Evaluation.
- Completion of the Praxis II exam.

## Non-Thesis Option

- Successfully complete the comprehensive exam.

## Thesis Option

- Complete 6 credit hours of SPED 8990

# Intervention Policy for Content and Clinicals

Every course/clinic assignment in the speech-language pathology program is connected to the Council for Clinical Certification in Audiology and Speech-Language Pathology (CFCC) along with the Council on Academic Accreditation Standards (CAA). CFCC and CAA standards are found in each course syllabus and must be successfully met for the course to count toward certification by the American Speech-Language-Hearing Association

(ASHA). Please refer to ASHA's website for more information on CFCC and CAA standards (links below).

2020 Standards for the Certificate of Clinical Competence in Speech-Language Pathology

2023 Council on Academic Accreditation Standards for Graduate Programs

Graduate Intervention Policy (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/special-education-communication-disorders/graduate/slp-intervention-policy.pdf>)

Core Functions (<https://www.unomaha.edu/college-of-education-health-and-human-sciences/special-education-communication-disorders/graduate/core-functions-student.pdf>)

## Urban Studies

### Degree Programs Offered

- Urban Studies, MS (p. 1195)

### Certificates Offered

- Urban Leadership Certificate (p. 1197)

## Urban Studies, MS

Our graduates are social entrepreneurs, urban thinkers and agents of change. The Master of Science in urban studies is the degree for individuals desiring to make a difference in urban areas. UNO's urban studies program is a professional degree that trains leaders to critically analyze urban problems and engage residents in the creation of innovative solutions to conditions in the human community, built environment and natural systems.

## Program Related Information

### Program Contact

Barbara Hewins-Maroney, PhD, Graduate Program Chair (GPC)  
402.554.4953  
[bhewinsm@unomaha.edu](mailto:bhewinsm@unomaha.edu)

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/msus.php>)**

### Fast Track Program

The Master of Science in urban studies program has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to nine (9) graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing any of the following who wish to pursue a MS in urban studies:
  - BS in emergency management
  - BS in black studies
  - Bachelor of Multidisciplinary Studies.
- Students must be within at least 30 undergraduate credits yet to complete their undergraduate degree. Exceptional students who do not meet this requirement may be considered.
- Students must have a minimum undergraduate GPA of 3.5.



- Students must complete the Fast Track Approval form and obtain all signatures and submit to the Office of Graduate Studies prior to first enrollment in a graduate course
- Students will work with their undergraduate advisor to register for the graduate courses.
- Students must consult with the urban studies advisor prior to enrollment in one of the courses listed below.
- A minimum cumulative GPA of 3.5 is required to remain in good standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the MS in urban studies program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - For this program, if students maintain at least a grade of B+ in courses taken, they will be recommended for admission to the MS in urban studies.
  - The admit term must be after the completion term of the undergraduate degree.

The following courses may be taken under the Fast Track program

- BLST 8886:Seminar on Black Leadership
- UBNS 8000:Seminar in Urban Studies
- UBNS 8060:Introduction to Urban Planning
- UBNS 8020:Race, Ethnicity and American Urban Culture\*\*
- UBNS 8200:Community Organizing and Development\*\*
  - PA 8010:The Public Economy (Must have completed or be concurrently enrolled in UBNS 8000)

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

### Other Requirements

- The general prerequisite for admission to the urban studies program is a four-year bachelors' degree with a minimum grade point average of 3.0 in the junior and senior years combined (last 50-60 credit hours). Under extenuating circumstances an average below 3.0 will be considered.
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a pre-determined country on the waiver list, must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- **Statement of Purpose:** A two-page typed essay on how the MS in urban studies will further the applicant's career objectives must be included with the application for admission

- **Resume**

## Degree Requirements

| Code   | Title  | Credits |
|--|--|---------|
| <b>Required Courses</b>  |  |         |
| UBNS 8000/<br>GEOG 8830  | SEMINAR IN URBAN STUDIES   | 3       |
| PA 8120  | ANALYSIS AND DECISION MAKING   | 3       |
| PA 8010  | THE PUBLIC ECONOMY   | 3       |
| UBNS 8020  | RACE, ETHNICITY, AND AMERICAN CULTURE  | 3       |
| GEOG 8056  | GEOGRAPHIC INFORMATION SYSTEMS I   | 4       |
| UBNS 8200  | COMMUNITY ORGANIZING & SOCIAL CHANGE   | 3       |
| <b>Electives</b>   |  |         |
| Urban studies (UBNS) is an interdisciplinary field. The UBNS strives to expose students to courses taught by faculty in the School of Public Administration who have expertise in urban studies, as well as faculty in other academic units. Students select five elective courses with the approval of the UBNS chair from the following list based on interests in the human community, built environment or natural systems. This is subject to change depending on course availability, and prospective as well as current students should check the program's website periodically for updates approved by the director of urban studies. Electives are intended to give students knowledge and skills that prepare them to manage projects and organizations. Electives currently include, but are not limited to the following: |  | 15      |
| PA 8030  | INTERNSHIP IN PUBLIC ADMINISTRATION (Students who have not had at least two years full-time professional experience in the public or nonprofit sector (experience must have been in the sector of the student's primary future career interest) are highly encouraged to complete an internship. The internship is taken following completion of preparatory coursework as determined by the director of the urban studies program.) |         |
| CACT 8326  | ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH   |         |
| ENVN/CACT 8316   | OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY   |         |
| GEOG 8126  | URBAN GEOGRAPHY  |         |
| GEOG 8166  | URBAN SUSTAINABILITY   |         |
| GEOG 8210  | SEMINAR IN CULTURAL GEOGRAPHY  |         |
| GEOG/GEOL 8616   | ENVIRONMENTAL MONITORING AND ASSESSMENT  |         |
| PHHB 8360  | COMMUNITY HEALTH   |         |
| PSCI 8015  | URBAN POLITICS   |         |
| PA 8436  | MUNICIPAL ADMINISTRATION   |         |
| PA/BIOL/GEOG 8826  | INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS  |         |
| SOC 8100   | SOCIAL INEQUALITY  |         |
| SOC 8146   | URBAN SOCIOLOGY  |         |
| SOC 8200   | HEALTH & SOCIETY   |         |
| SOC 8746   | SOCIAL JUSTICE AND SOCIAL CHANGE   |         |
| UBNS 8400  | URBAN LEADERSHIP   |         |

|                         |   |           |
|-------------------------|---|-----------|
| UBNS 8060               | INTRODUCTION TO URBAN PLANNING            |           |
| UBNS 8500               | URBAN POLICY                              |           |
| UBNS 8820               | COMPARATIVE URBAN STUDIES                 |           |
| <b>Exit Requirement</b> |   |           |
| PA 8990                 | CAPSTONE PROJECT IN PUBLIC ADMINISTRATION | 3         |
| <b>Total Credits</b>    |   | <b>37</b> |

## Internship

Students who have not had at least two years full-time professional experience in the public or nonprofit sector (experience must have been in the sector of the student's primary future career interest) are encouraged to complete an internship. The internship may be given as a supervised course of three credit hours as part of the 37 hours required in the urban studies program. The internship is taken following completion of preparatory coursework as determined by the director of the urban studies program.

## Urban Leadership Certificate

The graduate certificate in urban leadership is an interdisciplinary certificate program that provides current and future urban leaders with the skills and training necessary to lead and communicate in diverse urban settings effectively and ethically.

## Program Related Information

### Program Contact

Barbara Hewins-Maroney, PhD, Graduate Program Chair (GPC)  
402.554.4953  
bhewinsm@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-public-affairs-and-community-service/public-administration/academics/graduate-certificates.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: October 1
- Fall 2026: June 1

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the U.S., **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- **Statement of Purpose:** The statement of purpose should be 1-2 pages describing your interest in this certificate and how the certificate will help you achieve your personal goals.
- **Resume**

## Degree Requirements

| Code                           | Title  | Credits   |
|--------------------------------|--|-----------|
| <b>Required Courses</b>        |  |           |
| UBNS 8000                      | SEMINAR IN URBAN STUDIES                             | 3         |
| UBNS 8400                      | URBAN LEADERSHIP                                     | 3         |
| CMST 8186                      | COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS | 3         |
| <b>Electives - select two:</b> |  | <b>6</b>  |
| BLST 8886                      | BLACK LEADERSHIP IN AMERICA                          |           |
| CMST 8516                      | PERSUASION AND SOCIAL INFLUENCE                      |           |
| CMST 8536                      | INTERCULTURAL COMMUNICATION-US                       |           |
| CMST 8576                      | INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE     |           |
| PA 8436                        | MUNICIPAL ADMINISTRATION                             |           |
| PA 8470                        | ADMINISTRATIVE ETHICS AND LEADERSHIP                 |           |
| PSCI 8015                      | URBAN POLITICS                                       |           |
| PSCI 8120                      | SEMINAR IN LEADERSHIP                                |           |
| <b>Total Credits</b>           |  | <b>15</b> |

## World Languages and Literature

## Certificate Programs Offered

- French Certificate (p. 1197)
- Spanish Certificate (p. 1198)
- Teaching Spanish to Heritage/Bilingual Learners Certificate (p. 1199)

## French Certificate

The graduate certificate in French provides students with intensive language proficiency training in the target language through six courses (18 credits) in French/Francophone cultures and literatures. Students interested in language teaching can also meet course requirements with up to six credits in language teaching pedagogy courses.

The graduate certificate in French is designed for individuals wishing to improve their overall proficiency in French, as well as those interested in pursuing additional graduate credits so they can be accredited to teach courses for the dual-enrollment programs at UNO or at other metropolitan and regional universities.

## Program Related Information

### Program Contact

Cecilia Tocaimaza-Hatch, PhD, Graduate Program Chair (GPC)  
402.554.4841  
ctocaimazahatch@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/world-languages-and-literature/academics/graduate-certificate-french.php>)**

## Admissions

General Application Requirements and Admission Criteria (<https://catalog.unomaha.edu/graduate/admission/>)

## Application Deadlines

- Spring 2026: November 15
- Summer 2026: April 15
- Fall 2026: April 15

Note: Applications will still be received and reviewed until term begins.

## Other Requirements

- Undergraduate grade point average of at least 3.0
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 100, IELTS: 7.5, PTE: 68, Duolingo: 130
- **Statement of Purpose:** A personal statement (700-900 words, double space), written French. Some topics you might want to consider:
  - Interests and qualifications for graduate study
  - Description of yourself and your intellectual development
  - Strengths and weaknesses, and how you overcame them or challenges to overcoming them
  - Reasons why you want to join this program
  - Possible areas of research or deeper study
  - What you want to do after completion of the certificate
- Applicants must have at least intermediate-high proficiency in French

## Degree Requirements

| Code                                       | Title   | Credits   |
|--|---|-----------|
| <b>Select 18 hours from the following:</b> |   | <b>18</b> |
| FREN 8036                                  | ADVANCED FRENCH CONVERSATION                              |           |
| FREN 8056                                  | SEMINAR IN THE CULTURE AND CIVILIZATION OF QUEBEC         |           |
| FREN 8156                                  | CONTEMPORARY FRENCH NOVEL                                 |           |
| FREN 8176                                  | CONTEMPORARY FRENCH THEATER                               |           |
| FREN 8226                                  | THE STRUCTURE OF FRENCH                                   |           |
| FREN 8440                                  | SEMINAR: FRENCH COMPOSITION                               |           |
| FREN 8866                                  | MODERN FRENCH WOMEN AUTHORS                               |           |
| FREN 8956                                  | PRO-SEMINAR: LITERATURE AND/OR FILM                       |           |
| FREN 8966                                  | PRO-SEMINAR: CULTURE AND SOCIETY                          |           |
| FREN 8976                                  | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS |           |
| WLL 8020                                   | SEMINAR:FL/TESOL RESEARCH                                 |           |
| WLL 8030                                   | SEMINAR: SECOND AND BILINGUAL LANGUAGE ACQUISITION THEORY |           |
| WLL 8040                                   | SEMINAR: ASSESSMENT & CURRICULUM DESIGN                   |           |
| WLL 8960                                   | SEMINAR:SPECIAL TOPICS                                    |           |
| <b>Total Credits</b>                       |   | <b>18</b> |

## Spanish Certificate

The graduate certificate in Spanish provides students with the opportunity to earn a certificate degree after successful completion of 18 credit hours of intensive language proficiency training in Spanish. The program includes

courses in Hispanic cultures, literature, linguistics, and, for those students interested in language teaching, language teaching pedagogy.

The graduate certificate in Spanish presents a rigorous language program that seeks to serve these student populations: (a) High school faculty interested in teaching dual-enrollment classes and who are required to have 18 graduate credit hours in their discipline to be eligible. (b) Bilingual instructors who support dual language and world language programs. (c) Individuals in various fields (e.g., law enforcement, social work, psychological services, healthcare) who work with Spanish-speaking individuals.

## Program Related Information

### Program Contact

Cecilia Tocaimaza-Hatch, PhD, Chair  
402.554.4841  
[ctocaimazahatch@unomaha.edu](mailto:ctocaimazahatch@unomaha.edu)

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/world-languages-and-literature/academics/graduate-certificate.php>)**

## Admissions

General Application Requirements and Admission Criteria (p. 972)

## Application Deadlines

**Spring 2026, Summer 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

## Other Requirements

- Undergraduate grade point average of at least 3.0
- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 100, IELTS: 7.5, PTE: 68, Duolingo: 130
- **Statement of Purpose:** A statement of purpose (700-900 words, double space), written in Spanish is required. Some topics you might want to include:
  - Your interests and qualifications for graduate study
  - Description of yourself and your intellectual development
  - Strengths and weaknesses, and how you overcame them or challenges to overcoming them
  - Reasons why you want to join this program
  - Possible areas of research or deeper study
  - What you want to do after completion of the certificate
- Applicants must have at least advanced-low proficiency in Spanish

## Degree Requirements

| Code                                       | Title                               | Credits   |
|--|-------------------------------------|-----------|
| <b>Select 18 hours from the following:</b> |                                     | <b>18</b> |
| SPAN 8036                                  | ADVANCED SPANISH CONVERSATION       |           |
| SPAN 8146                                  | INTRODUCTION TO LATIN AMERICAN FILM |           |

|           |   |
|-----------|---|
| SPAN 8156 | LITERATURE/CULTURE: CENTRAL AMERICA AND THE CARIBBEAN 1898-2000 |
| SPAN 8176 | INTRODUCTION TO LATIN AMERICAN LITERATURES                      |
| SPAN 8956 | PRO-SEMINAR: LITERATURE AND/OR FILM                             |
| SPAN 8026 | LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING                |
| SPAN 8066 | INTRODUCTION TO TRANSLATION AND INTERPRETATION                  |
| SPAN 8076 | HISPANIC BILINGUALISM   |
| SPAN 8086 | INTRODUCTION TO HISPANIC LINGUISTICS                            |
| SPAN 8226 | THE STRUCTURE OF SPANISH  |
| SPAN 8976 | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS       |
| SPAN 8066 | INTRODUCTION TO TRANSLATION AND INTERPRETATION                  |
| SPAN 8076 | HISPANIC BILINGUALISM   |
| SPAN 8086 | INTRODUCTION TO HISPANIC LINGUISTICS                            |
| SPAN 8156 | LITERATURE/CULTURE: CENTRAL AMERICA AND THE CARIBBEAN 1898-2000 |
| SPAN 8226 | THE STRUCTURE OF SPANISH  |
| SPAN 8440 | SEMINAR:SPANISH COMPOSITION                                     |
| SPAN 8900 | SPANISH INDEPENDENT STUDY                                       |
| SPAN 8956 | PRO-SEMINAR: LITERATURE AND/OR FILM                             |
| SPAN 8966 | PRO-SEMINAR: CULTURE AND SOCIETY                                |
| SPAN 8976 | PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS       |
| WLL 8020  | SEMINAR:FL/TESOL RESEARCH                                       |
| WLL 8030  | SEMINAR: SECOND AND BILINGUAL LANGUAGE ACQUISITION THEORY       |
| WLL 8040  | SEMINAR: ASSESSMENT & CURRICULUM DESIGN                         |
| WLL 8050  | THEORY AND METHODS IN THE TEACHING OF HERITAGE LANGUAGES        |
| WLL 8060  | APPROACHES AND METHODS IN LANGUAGE TEACHING                     |
| WLL 8900  | DIRECTED READINGS   |
| WLL 8960  | SEMINAR:SPECIAL TOPICS  |

**Total Credits****18**

## Teaching Spanish to Heritage/Bilingual Learners Certificate

A graduate certificate in teaching Spanish to heritage/bilingual learners will provide students with the opportunity to earn a graduate certificate after completion of 18 credit hours. Courses will focus on the study of sociolinguistic and pedagogical (theory and practice) subjects relevant to the intricacies and challenges of teaching Spanish to bilingual learners (children who are bilingual) and heritage learners (bilingual adults).

## Program Related Information

### Program Contact

Cecilia Tocaimaza-Hatch, PhD, Graduate Program Chair (GPC)  
402.554.4841  
ctocaimazahatch@unomaha.edu

**Program Website (<https://www.unomaha.edu/college-of-arts-and-sciences/world-languages-and-literature/academics/graduate-certificate-heritage-bilingual.php>)**

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## Admissions

General Application Requirements and Admission Criteria (<https://catalog.unomaha.edu/graduate/admission/>)

### Application Deadlines

**Spring 2026, Summer, 2026, and Fall 2026:** Applications for this program are accepted on a rolling basis with a priority deadline of June 30 for fall admission, November 15 for spring admission, and April 15 for summer admission

### Other Requirements

- Undergraduate grade point average of at least 3.0
- English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 100, IELTS: 7.5, PTE: 68, Duolingo: 130
- Statement of Purpose:** A personal statement (700-900 words, double space), written Spanish. Some topics you might want to consider:
  - Interests and qualifications for graduate study;
  - Description of yourself and your intellectual development;
  - Strengths and weaknesses, and how you overcame them or challenges to overcoming them;
  - Reasons why you want to join this program;
  - Possible areas of research or deeper study;
  - What you want to do after completion of the certificate.
- Applicants must have at least advanced-low proficiency in Spanish.

## Degree Requirements

| Code                                | Title  | Credits  |
|-------------------------------------|--|----------|
| <b>Required Courses</b>             |  |          |
| WLL 8050                            | THEORY AND METHODS IN THE TEACHING OF HERITAGE LANGUAGES | 3        |
| WLL 8060                            | APPROACHES AND METHODS IN LANGUAGE TEACHING              | 3        |
| WLL 8900                            | DIRECTED READINGS  | 3        |
| <b>Select one of the following:</b> |  | <b>3</b> |
| SPAN 8076                           | HISPANIC BILINGUALISM                                    |          |
| SPAN 8126                           | HISPANIC SOCIOLINGUISTICS                                |          |
| SPAN 8136                           | SPANISH IN THE UNITED STATES                             |          |

**Select two of the following:**

**6**

|                      |   |           |
|----------------------|---|-----------|
| SPAN 8026            | LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING          |           |
| SPAN 8086            | INTRODUCTION TO HISPANIC LINGUISTICS                      |           |
| SPAN 8176            | INTRODUCTION TO LATIN AMERICAN LITERATURES                |           |
| SPAN 8226            | THE STRUCTURE OF SPANISH                                  |           |
| WLL 8020             | SEMINAR:FL/TESOL RESEARCH                                 |           |
| WLL 8030             | SEMINAR: SECOND AND BILINGUAL LANGUAGE ACQUISITION THEORY |           |
| WLL 8040             | SEMINAR: ASSESSMENT & CURRICULUM DESIGN                   |           |
| <b>Total Credits</b> |   | <b>18</b> |

Students must complete all required coursework with a grade of B or better.

## Writing, MFA

The MFA in writing is a two-year program of focused instruction for creative writers who are committed to a literary career. The program comprises four 16-week distance writing seminars and five 10-day, conference-style Nebraska residency sessions. The seminars and residencies are integrated to help those who need to hone their writing and critical thinking in order to participate competitively in the wider domain of contemporary American letters. In a two-year course of study, the student earns 60 credit hours toward a Masters of Fine Arts degree in one of six genres: fiction, creative nonfiction, poetry, young adult, playwriting, or screenwriting.

## Program Related Information

### Program Contact

Kevin Clouter, Program Coordinator  
221 Weber Fine Arts Building (WFAB)  
402.554.5987  
kclouter@unomaha.edu

**Program Website** (<http://www.unomaha.edu/unmfaw/>)

### Other Program Related Information

- The MFA in writing is low-residency.
- Upon acceptance, a \$500 non-refundable deposit is required to hold the student's place in the program. This deposit is applied toward the first residency's meals and lodging fee.

## Admissions

General Application Requirements and Admission Criteria (p. 972)

### Application Deadlines

- Spring 2026: November 1
- Fall 2026: June 1

### Other Requirements

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/office-of-graduate-studies/admissions/entrance-exams.php>) must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110

- **Statement of Purpose:** A one- to two-page single-spaced self-assessment of your background in writing, reasons for wanting to enter the MFA program, and your goals as a writer.
  - For **fiction, creative nonfiction, poetry, and young adult** include any other experience you have in the wider community of literature (e.g. organizing or participating in workshops, attending conferences, working for literary magazines, etc.).
  - For **playwriting and screenwriting**, include any specific experience as it pertains to screenwriting or to full-length plays, one-act plays, and ten-minute plays, as well as any experience in other areas of film or theatre.
- **Writing Sample:** A manuscript representing your best work in the genre track (fiction, creative nonfiction, poetry, young adult, playwriting, or screenwriting) for which you are applying.
  - 15 pages of poetry
  - 15-20 pages of playwriting
  - 30 pages of screenwriting
  - 30-40 pages of fiction, creative nonfiction, or young adult
- **Letters of Recommendation:** Two letters of recommendation from persons who can attest to your ability to complete a course of graduate study, the ability to work independently, and/or the quality of your prior literary achievements.

**NOTE:** Your statement of purpose and your writing sample must be submitted in your online application in .pdf format. Manuscripts should be in 12-point typeface with 1" margins. Prose should be double-spaced; poetry may be single-spaced. Playwriting submissions should follow standard playwriting format; screenwriting submissions should follow standard screenwriting format. Material in genres other than the one in which you are applying will not be read. For specific information, as well as current residency dates for the program, please consult the program website (<https://www.unomaha.edu/college-of-communication-fine-arts-and-media/writers-workshop/mfa-program/>).

## Degree Requirements

### Pathway 1 Traditional MFA in Writing

Currently enrolled and new students are automatically enrolled in this pathway, unless otherwise approved.

### Pathway 2 Partial Substitution of Credit Hours Already Earned

Students who have successfully completed graduate-level coursework at UNO or any accredited institution can reduce costs by requesting that up to 18 hours of previously earned credit be applied to the UNO MFA in Writing degree. Subject to individual approval.

### Pathway 3 Partial Substitution of Credit Hours Earned Through Additional Coursework

Students have the option to enroll in a limited number of approved courses offered online or on any University of Nebraska campus and have those credits substituted for required MFA degree credit hours. Approval must be obtained from the program coordinator BEFORE enrolling.

### Required Residency Session

| Code      | Title             | Credits |
|-----------|-------------------|---------|
| MFaw 8700 | RESIDENCY SESSION | 3       |

Register for one 3-hour session per semester (4 semesters)



Residencies are conference-style sessions (10 days) consisting of workshops of student writing, craft and theory classes, individual conferences with mentoring faculty, and readings.

## Writing Options (choose one)

### Seminars

Seminars are semester-long (16 weeks) supervised distance studies in writing, during which the student corresponds regularly with a faculty mentor on the work that was proposed during the preceding residency session. At least four times a semester, the student must submit creative and critical writing to the faculty mentor. The mentor will respond with revisions, suggestions for further readings, and discussion. Students must register for one 12-hour seminar session per semester for four semesters.

| Code                     | Title                                 | Credits |
|--------------------------|---------------------------------------|---------|
| <b>Fiction</b>           |                                       |         |
| MFAW 8830                | FICTION SEMINAR                       | 12      |
| <b>Non-Fiction</b>       |                                       |         |
| MFAW 8840                | NONFICTION SEMINAR                    | 12      |
| <b>Playwriting</b>       |                                       |         |
| MFAW 8850                | PLAYWRITING AND SCREENWRITING SEMINAR | 12      |
| <b>Poetry</b>            |                                       |         |
| MFAW 8820                | POETRY SEMINAR                        | 12      |
| <b>Exit Requirements</b> |                                       |         |
| MFAW 8710                | GRADUATING RESIDENCY SESSION          | 0       |

**Total Credit Hours: 60**

## Graduate Certificates

### Certificates Offered

- Advanced Writing (p. 1086)
- Artificial Intelligence (p. 1048)
- Business for Bioscientists (p. 994)
- Business in Health Administration (p. 1036)
- Communication (p. 1043)
- Communication Networks (p. 1049)
- Computer Science Education (p. 1054)
- Conducting (p. 1141)
- Cybersecurity (p. 1069)
- Data Analytics (p. 1125)
- Data Management (p. 1126)
- Dyslexia Specialist (p. 1192)
- Economic Education (p. 1075)
- English Dual Enrollment (p. 1088)
- Executive Business (p. 1037)
- Executive Business Analytics (p. 1038)
- Executive Business Leadership (p. 1038)
- French (p. 1197)
- Geographic Education (p. 1097)
- Geographic Information Science (p. 1096)
- Gerontology (p. 1100)
- Global Information Operations (p. 1148)
- Government (p. 1149)
- History (p. 1104)
- Homeland Security Focused Business Analytics (p. 1076)
- Human Resources and Training (p. 1039)
- Information Assurance (p. 1127)

- Intelligence and National Security (p. 1151)
- Internal Audit, Fraud and Control (p. 991)
- Kodaly (p. 1142)
- Literature and Culture (p. 1087)
- Logistics & Supply Chain Management (p. 1040)
- Machine Learning (p. 1050)
- Managing Juvenile and Adult Populations (p. 1064)
- Nonprofit Management (p. 1173)
- Project Management (p. 1129)
- Public Management (p. 1172)
- Secondary Mathematics Specialist (p. 1139)
- Software Engineering (p. 1051)
- Sociology (p. 1189)
- Spanish (p. 1198)
- Systems Analysis and Design (p. 1130)
- Systems and Architecture (p. 1052)
- Teaching English to Speakers of Other Languages (p. 1089)
- Teaching Spanish to Heritage/Bilingual Learners (p. 1199)
- Technical Communication (p. 1089)
- Urban Leadership (p. 1197)

## Graduate Minors

### Minors Offered

- Ancient Mediterranean Studies Minor (p. 1201)
- Anthropology Minor (p. 1202)
- Art History Minor (p. 1202)
- Black Studies Minor (p. 1202)
- Business Administration Minor (p. 1202)
- Criminology and Criminal Justice Minor (p. 1203)
- Economics Minor (p. 1203)
- English Minor (p. 1203)
- French Minor (p. 1203)
- German Minor (p. 1203)
- Geography Minor (p. 1203)
- Gerontology Minor (p. 1203)
- History Minor (p. 1204)
- Management Information Systems Minor (p. 1204)
- Mathematics Minor (p. 1204)
- Medical Humanities Minor (p. 1204)
- Medieval/Renaissance Studies Minor (p. 1204)
- Native American Studies Minor (p. 1205)
- Political Science Minor (p. 1205)
- Religious Studies Minor (p. 1205)
- Sociology Minor (p. 1205)
- Spanish Minor (p. 1206)
- Victimology & Victim Services Minor (p. 1206)

## Ancient Mediterranean Studies Minor

A student is not required by the graduate faculty to have a minor. However, a student may elect a minor with permission of the major department/school and the minor department/school.

The minor must consist of no fewer than nine graduate hours. The courses must be included on the Change in Plan of Study form and the minor

department must sign off on this form. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

## Courses Available for the Minor

| Code                       | Title   | Credits |
|----------------------------|---|---------|
| <b>Art and Art History</b> |   |         |
| ART 8736                   | CLASSICAL ART HISTORY   | 3       |
| ART 8756                   | LATE ROMAN AND BYZANTINE ART HISTORY  | 3       |
| ART 8936                   | SPECIAL TOPICS IN ART HISTORY (Gender and Sexuality in Antiquity, The Hellenistic World, Pop Antiquity, Ancient Egypt)  | 3       |
| <b>English</b>             |   |         |
| ENGL 8800                  | SEMINAR: TOPICS IN ENGLISH LANGUAGE AND LITERATURE  | 3       |
| <b>History</b>             |   |         |
| HIST 8826                  | MESOPOTAMIA AND PRE-ISLAMIC PERSIA  | 3       |
| HIST 8846                  | ALEXANDER THE GREAT AND THE MACEDONIAN ORIGIN   | 3       |
| HIST 8916                  | TOPICS IN HISTORY (Roman Republic, Ancient Rome AD 284-641, The Roman Family, Roman Paganism)   | 3       |
| HIST 9100                  | SEMINAR IN HISTORY (Argead Macedonia to Philip II, Greek Religion & Mystery Cults)  | 3       |
| HIST 9200                  | COLLOQUIUM (Greek Military History; Race, Gender and Sex in Ancient Greece, Ancient Roman Religion, The Age of Caesar, Ancient Rome: the Urban Experience, Imperial Rome) | 3       |
| <b>Philosophy</b>          |   |         |
| PHIL 8900                  | READINGS IN PHILOSOPHY  | 3       |
| <b>Political Science</b>   |   |         |
| PSCI 8316                  | CLASSICAL POLITICAL THOUGHT   | 3       |
| <b>Religion</b>            |   |         |
| RELI 8900                  | READINGS IN RELIGION (Qumran and the Dead Sea Scrolls, Women and the Bible)   | 1-6     |

## Anthropology Minor Requirements

| Code  | Title   | Credits  |
|---|---|----------|
| <b>Select nine hours from the following</b> |   | <b>9</b> |
| ANTH 8216                                   | CULTURAL ANTHROPOLOGY   |          |
| ANTH 8226                                   | NORTH AMERICAN ARCHAEOLOGY  |          |
| ANTH 8236                                   | ETHNOMEDICINES OF THE AMERICAS                                    |          |
| ANTH 8246                                   | MEDICAL ANTHROPOLOGY  |          |
| ANTH 8256                                   | ENVIRONMENTAL ANTHROPOLOGY AND NATIVE PEOPLES OF THE GREAT PLAINS |          |

|           |                                     |
|-----------|-------------------------------------|
| ANTH 8276 | DECOLONIZING NATIVE AMERICAN HEALTH |
| ANTH 8926 | SEMINAR IN ANTHROPOLOGY             |
| ANTH 8980 | INDEPENDENT STUDY IN ANTHROPOLOGY   |

If a student has taken the 4000 level equivalent of an 8xx6 course, the 8xx6 course cannot count toward the minor.

## Art History Minor Minor Requirements

A student is not required by the graduate faculty to have a minor. However, a student may elect a minor with permission of the major department/school and the minor department/school.

The minor must consist of no fewer than nine graduate hours. The courses must be included on the Change in Plan of Study form and the minor department must sign off on this form. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

## Black Studies Minor Minor Requirements

A student is not required by the graduate faculty to have a minor. However, a student may elect a minor with permission of the major department/school and the minor department/school.

The minor must consist of no fewer than nine graduate hours. The courses must be included on the Change in Plan of Study form and the minor department must sign off on this form. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

## Business Administration Minor

### Minor Requirements

Graduate students may complete a graduate minor in business administration. The minor requires the approval of the MBA advisor, completion of the MBA foundation courses, and the completion of a minimum of nine (9) graduate credit hours of BSAD courses, at least six (6) of which are in BSAD courses open only to graduate students (8000-level or higher), excluding courses which are foundation courses for any degree program. BSAD 8060 cannot be counted toward the minor. A grade of "B" (3.0 on a 4.0 scale) must be earned in each course counting toward the minor. All hours counting toward the minor must be earned at UNO.

# Criminology and Criminal Justice Minor

## Minor Requirements

| Code                         | Title  | Credits  |
|------------------------------|--|----------|
| <b>Required Course</b>       |  |          |
| CRCJ 8020                    | SEMINAR IN ADMINISTRATION OF JUSTICE           | 3        |
| <b>Elective Courses</b>      |  |          |
| Select two of the following: |  | 6        |
| CRCJ 8040                    | SEMINAR IN POLICE AND SOCIETY                  |          |
| CRCJ 8050                    | SEMINAR IN CORRECTIONS                         |          |
| CRCJ 8060                    | SEMINAR IN THE CRIMINAL COURT SYSTEM           |          |
| CRCJ 8080                    | SEMINAR IN JUVENILE JUSTICE                    |          |
| CRCJ 8130                    | SEMINAR IN WOMEN AND CRIMINAL JUSTICE          |          |
| CRCJ 8210                    | PROGRAM EVALUATION AND POLICY ANALYSIS         |          |
| CRCJ 8230                    | TERRORISM                                      |          |
| CRCJ 8190                    | INDEPENDENT STUDY                              |          |
| CRCJ 9020                    | SEMINAR ON THEORIES OF CRIME                   |          |
| CRCJ 9150                    | SPECIAL TOPICS IN CRIMINAL JUSTICE RESEARCH    |          |
| CRCJ 9160                    | SEMINAR IN COMMUNITY-BASED CORRECTIONS         |          |
| CRCJ 9170                    | ADVANCED SEMINAR ON CORRECTIONS                |          |
| CRCJ 9200                    | SEMINAR ON VIOLENT CRIME AND CRIMINAL BEHAVIOR |          |
| <b>Total Credits</b>         |  | <b>9</b> |

## Economics Minor

### Minor Requirements

The Department of Economics offers a graduate minor to students pursuing a graduate degree in other programs. The requirement for the minor is that the student completes a minimum of three graduate courses (9 hours) in economics with grades of "B" or better (3.0 on a 4.0 scale) in each course. The courses to be taken for the minor are to be approved by both the student's advisor in the student's major subject and by the Graduate Program Chair (GPC) of economics.

## English Minor

### Minor Requirements

With the approval of the student's advisor and the English graduate program committee, a student may include a minor as part of their plan of study. A minor requires nine (9) hours of approved coursework.

## French Minor

### Minor Requirements

A student is not required by the graduate faculty to have a minor. However, a student may elect a minor with permission of the major department/school and the minor department/school.

The minor must consist of no fewer than nine graduate hours. The courses must be included on the Change in Plan of Study form and the minor

department must sign off on this form. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

## Geography Minor

### Minor Requirements

| Code  | Title                               | Credits  |
|---|-------------------------------------|----------|
| GEOG 8000   | HISTORY AND PHILOSOPHY OF GEOGRAPHY | 3        |
| Additional geography courses selected in consultation with the graduate program chair |                                     | 6        |
| <b>Total Credits</b>  |                                     | <b>9</b> |

## German Minor

### Minor Requirements

A student is not required by the graduate faculty to have a minor. However, a student may elect a minor with permission of the major department/school and the minor department/school.

The minor must consist of no fewer than nine graduate hours. The courses must be included on the Change in Plan of Study form and the minor department must sign off on this form. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

## Gerontology Minor

### Minor Requirements

A student is not required by the graduate faculty to have a minor. However, a student may elect a minor with permission of the major department/school and the minor department/school.

The minor must consist of no fewer than nine graduate hours. The courses must be included on the Change in Plan of Study form and the minor department must sign off on this form. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

# History Minor

## Minor Requirements

To earn a graduate minor in history, a student must complete nine hours of graduate-level history courses with the grade of a "B" (3.0 on a 4.0 scale) or better.

# Management Information Systems Minor

## Minor Requirements

The management information systems area offers a graduate minor to students pursuing graduate degrees in other programs at UNO. The requirements for the minor are that the student completes a minimum of three graduate courses (nine semester hours ending in 0), receiving a grade of "B" (3.0 on a 4.0 scale) or better in each course. The courses to be taken for the minor are to be approved by the student's advisor in the student's major subject and by the Graduate Program Chair (GPC) in management information systems. For declaring a MIS minor, a minimum TOEFL score of 550 is required and a GPA of 3.0 or better in current graduate program are required.

# Mathematics Minor

## Minor Requirements

A student is not required by the graduate faculty to have a minor. However, a student may elect a minor with permission of the major department/school and the minor department/school.

The minor must consist of no fewer than nine graduate hours of MATH or STAT prefixed courses, with at least a B average. At least six of the nine graduate credit hours must be from courses ending in zero. Note that MATH 8880 cannot be used to satisfy the requirements of a mathematics minor. The courses must be included on the Change in Plan of Study form and the minor department must sign off on this form. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

# Medical Humanities Minor

## Minor Requirements

This cross-disciplinary minor allows students to select nine credit hours from the approved graduate courses listed below.

| Code                | Title  | Credits |
|---------------------|--|---------|
| <b>Anthropology</b> |  |         |
| ANTH 8236           | ETHNOMEDICINES OF THE AMERICAS   | 3       |
| ANTH 8246           | MEDICAL ANTHROPOLOGY   | 3       |
| <b>English</b>      |  |         |
| ENGL 8956           | BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM | 3       |
| ENGL 8976           | WRITING ABOUT SICKNESS AND HEALTH  | 3       |
| <b>Gerontology</b>  |  |         |

|                           |  |     |
|---------------------------|--|-----|
| GERO 8466                 | PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING    | 3   |
| GERO 8556                 | HEALTH ASPECTS OF AGING                      | 3   |
| <b>Medical Humanities</b> |  |     |
| MEDH 8006                 | TOPICS IN MEDICAL HUMANITIES                 | 3   |
| MEDH 8996                 | INDEPENDENT STUDY IN MEDICAL HUMANITIES      | 1-3 |
| <b>Music</b>              |  |     |
| MUS 8696                  | HEALTH AND WELLNESS FOR MUSICIANS            | 3   |
| <b>Psychology</b>         |  |     |
| PSYC 8446                 | ABNORMAL PSYCHOLOGY                          | 3   |
| PSYC 8806                 | LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE | 3   |
| <b>Religious Studies</b>  |  |     |
| RELI 8036                 | AFRICANA RELIGIONS                           | 3   |
| <b>Sociology</b>          |  |     |
| SOC 8446                  | HUMAN CONNECTION, LONELINESS, & HEALTH       | 3   |
| SOC 8706                  | WOMEN'S HEALTH AND ISSUES OF DIVERSITY       | 3   |
| SOC 8836                  | SOCIOLOGY OF MENTAL HEALTH & ILLNESS         | 3   |

Directed readings and various special topics courses can be used for the minor with advisor approval. Special note, students who were undergraduate students at UNO cannot take a dual-listed course at the graduate level if they have already taken the course at the undergraduate level.

The minimum requirement for the graduate minor is nine credit hours taken at the 8000 and/or 9000 levels. A student's program will be planned in consultation with a medical humanities (MEDH) graduate advisor. The courses must be included on the Change in Plan of Study form and the minor department must sign off on this form. Up to three hours of previously completed graduate credit may be applied if taken within the time to degree requirement and subject to approval by the Graduate Advisor. The minor will be reflected on the student's transcript at the time of graduation.

# Medieval/Renaissance Studies Minor

## Minor Requirements

| Code                               | Title                                | Credits |
|------------------------------------|--------------------------------------|---------|
| Select 9 hours from the following: |                                      | 9       |
| ART 8756                           | LATE ROMAN AND BYZANTINE ART HISTORY |         |
| ART 8836                           | ITALIAN RENAISSANCE ART HISTORY      |         |
| ART 8910                           | INDEPENDENT STUDY IN ART HISTORY     |         |
| MUS 8546                           | RENAISSANCE MUSIC LITERATURE         |         |
| ENGL 8300                          | SEMINAR: SHAKESPEARE                 |         |
| ENGL 8326                          | CHAUCER                              |         |
| ENGL 8346                          | SHAKESPEARE                          |         |
| ENGL 8400                          | SEMINAR: RENAISSANCE LITERATURE      |         |
| ENGL 8626                          | HISTORY OF ENGLISH                   |         |
| HIST 8536                          | EUROPE: RENAISSANCE & REFORMATION    |         |
| HIST 8546                          | MEDIEVAL EUROPE                      |         |

HIST 8616

TUDOR AND STUART ENGLAND

**Total Credits****9**

NOTE: The preceding list does not include the various departmental numbers for graduate directed readings courses, even though these highly individualized reading and research classes may be applied to the requirements for the minor. This list also does not include the various special topics courses in individual departments which may be taken for graduate credit.

## Native American Studies Minor

### Minor Requirements

The minimum requirement for the graduate minor is 9 credits taken at the 8000 and/or 9000 levels.

A student's program will be planned in consultation with the Native American Studies (NAS) Graduate advisor, who will hold graduate faculty status. This cross-disciplinary minor will include choices among approved graduate lecture courses, seminars, and directed reading courses.

Three (3) hours of thesis can be counted toward the minimum requirement of 9 credits, but only in the graduate advisor and the thesis committee members agree that the topic is related to Native American studies.

Students must complete each course of their 9-credit minor with a grade of "B" (3.0 on a 4.0 scale) or better.

No comprehensive exam will be required after completion of the three required courses for the minor.

## Political Science Minor

### Minor Requirements

Students outside of political science may earn a political science minor in conjunction with their graduate program by taking 9 graduate credit hours in political science. The courses to be taken for the minor are to be approved by both the student's advisor in the student's major subject and by the Graduate Program Chair (GPC) of political science.

## Religious Studies Minor

### Minor Requirements

A student is not required by the graduate faculty to have a minor. However, a student may elect a minor with permission of the major department/school and the minor department/school.

The minor must consist of no fewer than nine graduate hours. The courses must be included on the Change in Plan of Study form and the minor department must sign off on this form. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

## Sociology Minor

### Minor Requirements

| Code  | Title   | Credits  |
|---|---|----------|
| <b>Select nine hours from the following</b> |   | <b>9</b> |
| SOC 8010                                    | CLASSICAL SOCIOLOGICAL THEORY                             |          |
| SOC 8020                                    | CONTEMPORARY SOCIOLOGICAL THEORY                          |          |
| SOC 8030                                    | APPLIED RESEARCH DESIGN AND METHODS                       |          |
| SOC 8040                                    | APPLIED DATA ANALYSIS & INTERPRETATION                    |          |
| SOC 8050                                    | SEMINAR ON TEACHING: PEDAGOGICAL THEORY AND PRACTICE      |          |
| SOC 8060                                    | QUALITATIVE METHODS                                       |          |
| SOC 8100                                    | SOCIAL INEQUALITY   |          |
| SOC 8136                                    | SOCIOLOGY OF DEVIANCE                                     |          |
| SOC 8146                                    | URBAN SOCIOLOGY   |          |
| SOC 8156                                    | AMERICAN FAMILY PROBLEMS                                  |          |
| SOC 8176                                    | SOCIOLOGY OF FATHERHOOD                                   |          |
| SOC 8186                                    | OCCUPATIONS & CAREERS: FULFILLMENT AND CHALLENGES AT WORK |          |
| SOC 8200                                    | HEALTH & SOCIETY  |          |
| SOC 8216                                    | DISABILITY AND SOCIETY                                    |          |
| SOC 8246                                    | SOCIAL TRANSFORMATIONS IN LATIN AMERICA                   |          |
| SOC 8256                                    | RESEARCHING LATIN AMERICAN MIGRATIONS                     |          |
| SOC 8316                                    | SOCIOLOGY OF SEXUALITIES                                  |          |
| SOC 8356                                    | WORK & FAMILY   |          |
| SOC 8446                                    | HUMAN CONNECTION, LONELINESS, & HEALTH                    |          |
| SOC 8476                                    | SOUTH AFRICA & THE SOCIO POLITICS OF APARTHEID            |          |
| SOC 8500                                    | COMPLEX ORGANIZATIONS                                     |          |
| SOC 8550                                    | ORGANIZATIONAL CULTURE                                    |          |
| SOC 8556                                    | ORGANIZATIONAL DIVERSITY AND INCLUSION                    |          |
| SOC 8600                                    | SEMINAR IN SOCIAL ORGANIZATION                            |          |
| SOC 8626                                    | APPLIED FORMAL ORGANIZATIONS                              |          |
| SOC 8706                                    | WOMEN'S HEALTH AND ISSUES OF DIVERSITY                    |          |
| SOC 8746                                    | SOCIAL JUSTICE AND SOCIAL CHANGE                          |          |
| SOC 8766                                    | ENVIRONMENTAL SOCIOLOGY                                   |          |
| SOC 8776                                    | POLITICAL SOCIOLOGY                                       |          |
| SOC 8786                                    | URBAN LATIN AMERICA                                       |          |
| SOC 8806                                    | CONTEMPORARY TOPICS IN SOCIOLOGY                          |          |
| SOC 8836                                    | SOCIOLOGY OF MENTAL HEALTH & ILLNESS                      |          |
| SOC 8856                                    | SOCIOLOGY OF RELIGION                                     |          |
| SOC 8886                                    | CONTEMPORARY TOPICS IN SOCIOLOGY                          |          |
| SOC 8896                                    | CONTEMPORARY TOPICS IN SOCIOLOGY                          |          |
| SOC 8980                                    | INDEPENDENT STUDY IN SOCIOLOGY                            |          |
| SOC 9110                                    | THEORIES OF AGING   |          |



If a student has taken the 4000 level equivalent of an 8xx6 course, the 8xx6 course cannot count toward the minor.

# Spanish Minor

## Minor Requirements

A student is not required by the graduate faculty to have a minor. However, a student may elect a minor with permission of the major department/school and the minor department/school.

The minor must consist of no fewer than nine graduate hours. The courses must be included on the Change in Plan of Study form and the minor department must sign off on this form. The minor will be reflected on the student's transcript at the time of graduation.

Students who elect to complete a minor may be required to take a comprehensive examination over the minor field. This requirement will be at the discretion of the minor advisor. If such an examination is given, it should be given at a date arranged at the convenience of both the student and the minor advisor, but falling within the limits established for all comprehensive examinations.

# Victimology and Victim Services Minor

## Minor Requirements

| Code                         | Title                     | Credits  |
|------------------------------|---------------------------|----------|
| <b>Required Course</b>       |                           |          |
| CRCJ 8110                    | VICTIMOLOGY               | 3        |
| Select two of the following: |                           | 6        |
| CRCJ 8400                    | INTIMATE PARTNER VIOLENCE |          |
| CRCJ 8430                    | HUMAN TRAFFICKING         |          |
| CRCJ 8450                    | SEXUAL VIOLENCE           |          |
| <b>Total Credits</b>         |                           | <b>9</b> |

# Graduate Courses A-Z

## A

- Accounting (ACCT) (p. 1207)
- Anthropology (ANTH) (p. 1208)
- Art (ART) (p. 1209)
- Athletic Training (ATHT) (p. 1210)
- Aviation (AVN) (p. 1211)

## B

- Biology (BIOL) (p. 1211)
- Biomechanics & Kinesiology (BMKI) (p. 1220)
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- Black Studies (BLST) (p. 1222)
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## C

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## E

- Economics (ECON) (p. 1264)
- Educational Leadership (EDL) (p. 1267)
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## F

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## G

- Geography (GEOG) (p. 1285)
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## H

- Health & Kinesiology (HEKI) (p. 1290)
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- History (HIST) (p. 1292)
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## I

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## J

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## K

- Kinesiology (KINS) (p. 1301)

## L

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## M

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## N

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## P

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## R

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## S

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## T

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## U

- Urban Studies (UBNS) (p. 1359)

## W

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- World Languages and Literature (WLL) (p. 1360)
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# Accounting (ACCT)

## Accounting Graduate Courses

### ACCT 8016 ADVANCED FINANCIAL ACCOUNTING (3 credits)

Specialized issues in financial accounting. Principal topics include business combinations and consolidated financial statements, partnership accounting, translation of foreign currency financial statements, accounting for foreign currency denominated transactions, and SEC reporting requirements. (Cross-listed with ACCT 4010).

**Prerequisite(s):** Admission to MAcc or MBA program or permission of the Director of the MAcc program. ACCT 3030 and ACCT 3040 with a grade of "C+" (2.33) or better in each. Not open to non-degree graduate students.

### ACCT 8046 ADVANCED FEDERAL INCOME TAXATION (3 credits)

Analysis of various advanced tax issues, such as accounting methods, property transactions, and formation, operation, and liquidation of C-corporations, S-corporations and partnerships. (Cross-listed with ACCT 4040).

**Prerequisite(s):** Admission to MAcc or MBA program or permission of the Director of the MAcc program. ACCT 3020 with a grade of "C" (2.0) or better. Not open to non-degree graduate students.

### ACCT 8050 FINANCIAL STATEMENT ANALYSIS (3 credits)

Using the financial statement and supplemental information as inputs, this course utilizes a systematic fundamental analysis approach across a variety of decision-making contexts to understand how a business generates value for shareholders.

**Prerequisite(s):** Admission to MAcc or MBA program or permission of instructor. ACCT 3040 with a "C" (2.0) or better. Not open to non-degree graduate students.

### ACCT 8056 PRINCIPLES OF INTERNAL AUDIT (3 credits)

This course introduces students to the internal audit profession and the internal audit process. Topics include: the definition of internal auditing, The Institute of Internal Auditor's International Professional Practices Framework, risk, governance and control issues, fraud detection and mitigation, communicating results, and conducting internal audit engagements. (Cross-listed with ACCT 4050).

**Prerequisite(s):** Admission to MAcc or MBA program or permission of the Director of the MAcc program. Not open to non-degree graduate students.

### ACCT 8066 ADVANCED MANAGERIAL ACCOUNTING (3 credits)

Intensive study and discussion of the responsibilities of managerial accountants in the decision-making process in organizations and the consequences of the manner in which they use cost accounting information in decision-making. (Cross-listed with ACCT 4060).

**Prerequisite(s):** Admission to MAcc or MBA program or permission of the Director of the MAcc program. ACCT 3050 with a grade of "C" (2.0) or better. Not open to non-degree graduate students.

### ACCT 8076 GOVERNMENTAL/NONPROFIT ACCOUNTING AND AUDITING (3 credits)

Study of budgeting, accounting, financial reporting and auditing in governmental and nonprofit entities. (Cross-listed with ACCT 4070).

**Prerequisite(s):** Admission to MAcc or MBA program or permission of the Director of the MAcc program. ACCT 3030 with a grade of "C" (2.0) or better. Not open to non-degree graduate students.

### ACCT 8080 CURRENT TECHNOLOGY USE IN ACCOUNTING (3 credits)

This course will cover tools and methods that facilitate business analytic techniques, with a focus on current and emerging technology. This may include tools for databases, spreadsheets, robotic process automation, data mining, artificial intelligence, and others.

**Prerequisite(s):** Admission to MAcc or MBA program or permission of instructor. Successful completion of BSAD 8110, ACCT 2020, or equivalent. Not open to non-degree graduate students.

### ACCT 8090 INFORMATION SYSTEMS AUDITING (3 credits)

This course presents a broad overview of the professional practice of information systems audit, emphasizing control and audit procedures related to security along with Information Technology General Controls. Content studied will include professional standards, guidelines, and procedures promulgated by the Information Systems Audit and Control Association.

**Prerequisite(s):** ACCT 4080 or ACCT 4050 or ACCT 8056 with a grade of C (2.0) or better. Admission to MAcc or MBA program or permission of instructor. Not open to non-degree graduate students.

### ACCT 8210 FINANCIAL ACCOUNTING THEORY (3 credits)

The development of accounting, current accounting theory and present controversies and suggested theory and practice.

**Prerequisite(s):** ACCT 3040. Not open to non-degree graduate students.

**ACCT 8220 GRADUATE TOPICS IN INCOME TAXATION (3 credits)**

This course will discuss commonly encountered tax issues such as gift and estate taxation, income taxation of estates and trusts, and exempt organizations, as well as discuss current events while introducing the student to practitioner-oriented research publications.

**Prerequisite(s):** Admission to MAcc or MBA program or permission of instructor. ACCT 4040 or ACCT 8046 with a "C" (2.0) or better, or concurrent enrollment in ACCT 4040 or ACCT 8046. Not open to non-degree students.

**ACCT 8230 MANAGEMENT ACCOUNTING ISSUES (3 credits)**

An analysis of information to assist managers in determining successful strategies, developing those strategies into plans and controlling operating activities to achieve strategic goals.

**Prerequisite(s):** Admission to MAcc or MBA program or permission of instructor. ACCT 3050 or BSAD 8210 with a "C" (2.0) or better. Not open to non-degree graduate students.

**ACCT 8250 SEMINAR IN ACCOUNTING (3 credits)**

A study of a specific area within the accounting discipline. Possible areas include: auditing, financial, managerial, systems and tax. May be repeated, but no area can be taken more than once.

**Prerequisite(s):** Admission to MAcc or MBA programs or permission of instructor. Not open to non-degree students.

**ACCT 8260 FEDERAL TAX RESEARCH AND PLANNING (3 credits)**

This course is intended to provide students with a working knowledge of the primary and secondary tax resources used in practice to solve tax problems, as well as basic tax planning concepts.

**Prerequisite(s):** Admission to MAcc or MBA program or permission of instructor. ACCT 4040 or ACCT 8046 with a "C" (2.0) or better. Not open to non-degree students.

**ACCT 8280 SEMINAR IN ACCOUNTING INFORMATION SYSTEMS (3 credits)**

This course examines current topics in Accounting Information Systems (AIS), how AIS contributes to business effectiveness and ineffectiveness, and the interaction between AIS and human decision-makers.

**Prerequisite(s):** Admission to MAcc or MBA program or permission of instructor. Successful completion of BSAD 8110, ACCT 2020, or equivalent. Not open to non-degree graduate students.

**ACCT 8290 ADVANCED FINANCIAL AUDITING (3 credits)**

This course will provide students with an intense study of financial auditing in accordance with generally accepted auditing standards.

**Prerequisite(s):** Admission to MAcc or MBA program or permission of the Director of the MAcc program. ACCT 4080 with a grade of "C" (2.0) or better.

**ACCT 8900 INDEPENDENT RESEARCH (1-3 credits)**

This is an independent research course in which the student completes a focused project, typically individual research, under faculty supervision to supplement graduate study in a specific area within the Accounting discipline.

**Prerequisite(s):** Completed contract and permission needed from director of MACC program. Not open to non-degree graduate students.

**ACCT 8910 SPECIAL TOPICS IN ACCOUNTING (3 credits)**

A variable content course with accounting topics based on student and faculty interest. May be repeated to a maximum of six (6) hours.

**Prerequisite(s):** Admission to MAcc program and permission of instructor. Not open to non-degree graduate students.

# Anthropology (ANTH)

## Anthropology Graduate Courses

**ANTH 8216 CULTURAL ANTHROPOLOGY (3 credits)**

Cultural Anthropology is the sub-discipline of Anthropology that systematically considers cultural diversity (similarities and differences) in all known human societies. The scope of cultural anthropology is one of the broadest in the social sciences and includes the study of subsistence strategies and economies, kinship and social organization, political organization, religion, gender, language, expressive arts, human-environment relationships, and globalization. (Cross-listed with ANTH 4210).

**Prerequisite(s):** ANTH 1050 or permission of Instructor

**ANTH 8226 NORTH AMERICAN ARCHAEOLOGY (3 credits)**

This course explores more than 20,000 years of Native American culture and lifeways in North America. Indigenous peoples faced numerous challenges throughout this vast and diverse continent. Hunters, gatherers, fishers, and horticulturalists adapted to all regions of North America. Students will be introduced to a range of archaeological concepts, methods and theoretical perspectives central to learning about this rich heritage of American archaeology. (Cross-listed with ANTH 4220).

**Prerequisite(s):** ANTH 1050 or permission of instructor

**ANTH 8236 ETHNOMEDICINES OF THE AMERICAS (3 credits)**

An anthropological approach to the study of the cultural systems of specific American ethnomedicines (traditional medicines) of North, Central and South America. For each ethnomedicine, the historical context, philosophy, practice, therapeutics, and utilization will be examined to understand how and why each ethnomedicine has survived despite tremendous extermination pressure. (Cross-listed with ANTH 4230).

**Prerequisite(s):** ANTH 1050 or permission of the instructor.

**ANTH 8246 MEDICAL ANTHROPOLOGY (3 credits)**

Medical anthropology is the cross-cultural study of human culture, health and illness. Using multiple theoretical perspectives, this course examines how cultural, social, environmental, and biological factors interact to produce patterns of health and illness in past and present human societies. (Cross-listed with ANTH 4240)

**Prerequisite(s):** Junior standing or the permission of the instructor

**ANTH 8256 ENVIRONMENTAL ANTHROPOLOGY AND NATIVE PEOPLES OF THE GREAT PLAINS (3 credits)**

Environmental anthropology seeks to understand the interrelationships between human societies and their biophysical and social environments. This course introduces students to basic concepts and theories used by anthropologists to study environmental influences upon both past and present Native American societies on the North American Great Plains. Particular attention will be given to the rapid and dramatic environmental changes that continue to challenge Native Americans in the Great Plains today. (Cross-listed with ANTH 4250)

**ANTH 8276 DECOLONIZING NATIVE AMERICAN HEALTH (3 credits)**

This course will utilize an interdisciplinary lens to interrogate Native American health and wellness grounded in the decolonizing theoretical and methodological tools drawn from Medical Anthropology and Native American Studies. Topics covered will include: Health Disparities, Federal Indian Health Policy, Historical Trauma, Medical Mistrust, Traditional Healing, Food Sovereignty and Research Ethics. (Cross-listed with ANTH 4270, NAMS 4270, NAMS 8276).

**ANTH 8286 CLINICAL ETHNOGRAPHY (3 credits)**

Using ethnographic texts, this course explores the clinical world from an anthropological perspective. Students will use anthropological theories and methods to learn about cultures of medical practices, diverse health professions, the contexts of health care delivery, and the structural, cultural, and historical forces that influence the practice of healthcare in the U.S. and cross-culturally. (Cross-listed with ANTH 4280, MEDH 4280).

**Prerequisite(s):** ANTH 1050 or MEDH 1000 or permission of the instructor.

**ANTH 8296 DRUG USE, ADDICTION, & CULTURE (3 credits)**

What does "addiction" and its treatment look like in different cultures? How do social practices and cultural values shape drug use and addiction? Why do some people become addicted to drugs and others don't? This course examines drug use and addiction cross-culturally. Using anthropological theories and methods, we will explore: definitions of addiction across time and place; drug use and addiction in relation to social inequalities; interventions targeting drug use and the assumptions underlying them; and lived experiences of drug use and addiction. We will also consider the implications of these issues for healthcare, policy, and social justice in the context of contemporary problems such as the rise in opioid overdose in the U.S. (Cross-listed with ANTH 4290, MEDH 4290)

**Prerequisite(s):** ANTH 1050, MEDH 1000, or permission of the instructor

**ANTH 8926 SEMINAR IN ANTHROPOLOGY (3 credits)**

This course reviews research and writing in an area of current interest in the field of anthropology. The specific topic(s) to be covered will be announced at the time the course is being offered. Since the topics will vary, students may elect to take this course more than once. (Cross-listed with ANTH 4920).

**Prerequisite(s):** Graduate standing or permission of instructor

**ANTH 8946 ARCHAEOLOGICAL FIELD METHODS (3 credits)**

This course introduces students to the field methods of scientific archaeology. These field methods include map reading, use of satellite and aerial photographs, instrument survey and mapping, pedestrian survey or reconnaissance, site survey data collection, identification of artifacts (stone tools, ceramics, etc.) and ecofacts (animal remains, macrobotanicals, etc.), systematic artifact collection and documentation, soil probes and coring methods, GPS-based mapping, excavation methods, and data recording. Additional topics include laboratory methods (artifact and ecofact analysis, interpretation, and documentation). This field course ultimately focuses upon the use of empirical data to test or evaluate our interpretations of past human behavior. (Cross-listed with ANTH 4940).

**ANTH 8980 INDEPENDENT STUDY IN ANTHROPOLOGY (1-3 credits)**

This course is guided reading or independent research in special topics in Anthropology under the supervision of a member of the Anthropology faculty. This course is designed primarily for the student interested in topics not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated once for credit.

**Prerequisite(s):** Permission of the instructor. Not open to non-degree graduate students.

## Art (ART)

### Art Graduate Courses

**ART 8006 SPECIAL SEMINARS IN ART EDUCATION (1-3 credits)**

A series of intensive courses in the history and theory of art education designed specifically for elementary and secondary school art teachers. These courses are scheduled as special seminars or workshops according to purpose. (Cross-listed with ART 4000)

**ART 8316 ADVANCED SCULPTURE (3 credits)**

Advanced work in area of student's choice with facilities for oxyacetylene welding, arc welding and wood working. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.) Lab fee required. (Cross-listed with ART 4310)

**ART 8416 ADVANCED PAINTING (3 credits)**

Advanced instruction in oil painting permits students the time and environment to work and develop individually. Emphasis on developing cohesive body of work as continuation from work done in Intermediate painting. Knowledge of contemporary painting integral to painting practice. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.) Lab fee required. (Cross-listed with ART 4410)

**ART 8516 ADVANCED TECHNIQUES IN PRINTMAKING (3 credits)**

This course allows students to develop their skills in both lithography and intaglio and the color processes for each printmaking technique. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.) Lab fee required. (Cross-listed with ART 4510)

**ART 8616 ADVANCED CERAMICS (3 credits)**

This course will consist of advanced work on the potter's wheel, casting and preparations in glaze composition, as well as loading and firing of a high-fire kiln. The content of this course varies from semester to semester allowing students the opportunity to investigate and practice a variety of techniques. (May be repeated for credit up to 6 hours.) Lab fee required. (Cross-listed with ART 4610)

**ART 8736 CLASSICAL ART HISTORY (3 credits)**

This course is a study of painting, sculpture, architecture and minor arts of the classical world beginning with Cycladic art and including Minoan, Mycenaean, Greek, Etruscan and Roman art through 300 A.D. Lab fee required. (Cross-listed with ART 4730)

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 8756 LATE ROMAN AND BYZANTINE ART HISTORY (3 credits)**

A study of painting, sculpture and architecture of the Eastern Roman Empire from the founding of Constantinople, and of Western Europe from the time of Constantine to the dissolution of the Western Roman Empire. Lab fee required. (Cross-listed with ART 4750)

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 8836 ITALIAN RENAISSANCE ART HISTORY (3 credits)**

A study of painting, sculpture and architecture in Italy during the 14th, 15th and 16th centuries. Lab fee required. (Cross-listed with ART 4830)

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 8856 BAROQUE AND ROCOCO ART HISTORY (3 credits)**

This course is a study of painting, sculpture and architecture in Europe during the 17th and 18th centuries. Lab fee required. (Cross-listed with ART 4850)

**Prerequisite(s):** For Fine Arts majors, completion of ART 2050 & ART 2060 (Prereq or coreq), plus junior standing. For non-majors, junior standing and permission of the instructor are required.

**ART 8886 MODERN ART I (ART OF EUROPE AND THE AMERICAS, 1850-1920) (3 credits)**

A study of the most significant developments in European art and architecture dating from the early Modern period and examined in varied contexts (artistic, religious, political, economic, etc.). (Cross-listed with ART 4880)

**ART 8896 MODERN ART II (ART OF EUROPE AND THE AMERICAS, 1918-1968) (3 credits)**

This course explores the major artistic movements and artists active in Europe and the Americas between the end of WWI and the Vietnam Era circa 1968. (Cross-listed with ART 4890)



**ART 8906 CONTEMPORARY ART HISTORY SINCE 1968 (3 credits)**

This course introduces contemporary visual arts in a global context from 1968 to the present with topics of discussion including art, aesthetics, politics, gender and sexuality, race and economics. (Cross-listed with ART 4900)

**ART 8910 INDEPENDENT STUDY IN ART HISTORY (3 credits)**

Independent research under the direct supervision of the sponsoring faculty member, generally involving the writing of a paper. The topic of the research and the expectations for credit should be jointly agreed upon in writing by the student and the faculty member at the beginning of the semester.

**Prerequisite(s):** Permission of instructor and graduate standing.

**ART 8936 SPECIAL TOPICS IN ART HISTORY (3 credits)**

These illustrated lecture courses deal with a limited topic in the field of art history. The course may be coordinated with an external event such as an exhibition, publication or study trip. Lab fee required. (Cross-listed with ART 4930)

**Prerequisite(s):** ART 2050 or ART 2060 or instructor permission.

## Athletic Training (ATHT)

### Athletic Training Graduate Courses

**ATHT 8110 ATHLETIC TRAINING TECHNIQUES (2 credits)**

Overview course including basic components of the athletic training profession including the prevention, recognition, evaluation and immediate care of athletic injuries. Medical terminology, tissue healing, taping procedures, and professional considerations will be covered.

**Prerequisite(s):** Admission to the Master of Arts in Athletic Training. Not open to non-degree graduate students.

**ATHT 8120 EMERGENCY MANAGEMENT OF INJURY AND ILLNESS (2 credits)**

The purpose of this course is to prepare students to respond to emergent conditions that affect patients involved in physical activity. Students will learn to recognize the signs and symptoms of acute injury and illness, assess patients using evidence-based methods, apply appropriate treatments, make appropriate referral decisions, and implement effective prevention strategies to reduce the risk of injury and illness.

**Prerequisite(s):** Admission to the Master of Arts in Athletic Training program. Not open to non-degree graduate students.

**ATHT 8130 THERAPEUTIC INTERVENTIONS I (2 credits)**

This course will cover the pathophysiology of musculoskeletal injuries as well as the theory, physiology and application of physical agents used in the treatment of these injuries. This course will include the development of treatment programs involving these skills utilizing hands-on practical application.

**Prerequisite(s):** Not open to non-degree graduate students.

**ATHT 8230 THERAPEUTIC INTERVENTIONS II (2 credits)**

This course will introduce students to the use of basic theories and principles of athletic injury rehabilitation including therapeutic exercise. This course will include the development of treatment programs involving these skills utilizing hands-on practical application.

**Prerequisite(s):** ATHT 8130/HEKI 8130. Not open to non-degree graduate students.

**ATHT 8240 ORTHOPEDIC ASSESSMENT I (2 credits)**

The primary purpose of this course is to provide the student with knowledge and skill in the area of advanced athletic injury assessment to the lower extremity. The student will be exposed to current methodology in the field of orthopedic physical assessment, particularly the foot, ankle, lower leg, knee, thigh and hip. In addition, students will learn how to use the principles of evidence-based practice (EBP) to select and evaluate specific tests during the diagnostic process.

**Prerequisite(s):** Admission to the Master of Arts in Athletic Training Program. Not open to non-degree graduate students.

**ATHT 8250 CLINICAL PRACTICUM IN ATHLETIC TRAINING I (2 credits)**

Clinical Practicum in Athletic Training I is the first course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a preceptor in order to improve clinical and decision-making skills.

**Prerequisite(s):** Admission to the MA in Athletic Training program, instructor permission, & compliance with published Athletic Training Program Technical Standards for Admission. Not open to non-degree graduate students.

**ATHT 8330 THERAPEUTIC INTERVENTIONS III (2 credits)**

This course will introduce students to the use of basic theories and principles of physical agents and manual therapies. This course will include the development of treatment programs involving these skills utilizing hands-on practical application.

**Prerequisite(s):** ATHT 8230/HEKI 8230. Not open to non-degree graduate students.

**ATHT 8340 ORTHOPEDIC ASSESSMENT II (2 credits)**

The primary purpose of this course is to provide the student with knowledge and skill in the area of advanced athletic injury assessment to the upper extremity. The student will be exposed to current methodology in the field of orthopedic physical assessment, particularly the shoulder, elbow, wrist, hand and fingers. In addition, students will learn how to use the principles of evidence-based practice (EBP) to select and evaluate specific tests during the diagnostic process.

**Prerequisite(s):** ATHT 8240/HEKI 8240. Not open to non-degree graduate students.

**ATHT 8350 CLINICAL PRACTICUM IN ATHLETIC TRAINING II (2 credits)**

Clinical Practicum in Athletic Training II is the second course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills.

**Prerequisite(s):** ATHT 8250/HEKI 8250 Clinical Practicum I. Not open to non-degree graduate students.

**ATHT 8360 ADVANCED ORTHOPEDIC & MEDICAL ASPECTS OF ATHLETIC TRAINING (3 credits)**

This course will provide the student with knowledge and skill in the area of orthopedic and medical aspects of athletic training. Students will gain this knowledge through directed observation, experiential learning, literature review, and hands-on experience under the supervision of local medical professionals. The student will be exposed to advanced evaluation of medical conditions, systemic diseases, and other disorders; observe common surgical procedures for orthopedic conditions; and medical management of patients and physically active populations in conjunction with other healthcare providers.

**Prerequisite(s):** Admission to Master of Arts in Athletic Training Program

**ATHT 8410 ATHLETIC TRAINING ADMINISTRATION (3 credits)**

This course will introduce students to administrative topics related to athletic training. Management strategies for financial resources, personnel, facilities, medical records, and third-party reimbursement will be covered. Additionally, legal and ethical professional practice standards will be introduced.

**Prerequisite(s):** Not open to non-degree graduate students.



**ATHT 8450 INTERNSHIP IN ATHLETIC TRAINING (2 credits)**

This course is designed to provide an immersive athletic training clinical experience for students. The internship is a supervised, educational clinical work experience of at least 300 hours over a minimum of 4-weeks during a single semester. This experience will allow the student the opportunity to take more responsibility for the care, prevention, and rehabilitation of athletic injuries with a particular team or group of patients, as well as help plan and provide daily coverage for practices or clinical appointments.

**Prerequisite(s):** Permission from the instructor or program director. Not open to non-degree graduate students.

**ATHT 8530 THERAPEUTIC INTERVENTIONS IV (2 credits)**

This course will introduce students to the use of basic theories and principles of athletic training related to pharmacology, nutrition and psychosocial wellness. This course will include the development of treatment programs involving these skills utilizing hands-on practical application.

**Prerequisite(s):** ATHT 8330/HEKI 8330. Not open to non-degree graduate students.

**ATHT 8540 ORTHOPEDIC ASSESSMENT III (2 credits)**

The primary purpose of this course is to provide the student with knowledge and skill in the area of advanced athletic injury assessment to the head, face and spine. The student will be exposed to current methodology in the field of orthopedic physical assessment, particularly the head, face and spine. In addition, students will learn how to use the principles of evidence-based practice (EBP) to select and evaluate specific tests during the diagnostic process.

**Prerequisite(s):** ATHT 8340/HEKI 8340. Not open to non-degree graduate students.

**ATHT 8550 CLINICAL PRACTICUM IN ATHLETIC TRAINING III (2 credits)**

Clinical Practicum in Athletic Training III is the third course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a preceptor in order to improve clinical and decision-making skills.

**Prerequisite(s):** ATHT 8350/HEKI 8350 Clinical Practicum II. Not open to non-degree graduate students.

**ATHT 8650 CLINICAL PRACTICUM IN ATHLETIC TRAINING IV (2 credits)**

Clinical Practicum in Athletic Training IV is the fourth course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a preceptor in order to improve clinical and decision-making skills.

**Prerequisite(s):** ATHT 8550/HEKI 8550 Clinical Practicum III

**ATHT 8706 INTERNSHIP IN SPORTS MEDICINE AND BIOMECHANICS RESEARCH (3 credits)**

This course is an on-campus, supervised, educational work experience of at least 150 clock hours at an approved worksite offering programs and experiences in sports medicine or biomechanics. (Cross-listed with BMCH 4700, BMCH 8706).

**Prerequisite(s):** 2.5 GPA and instructor permission

**ATHT 8900 ATHLETIC TRAINING PROGRAM COMPREHENSIVE ASSESSMENT (0 credits)**

This zero-credit-hour course is used to assess the knowledge and skills that students accumulate over the course of the CAATE-accredited entry-level graduate Athletic Training Program. Students must enroll in this course in their final semester in the program to take and pass the comprehensive examination. The exam assesses the student on their knowledge of the domains of athletic training and preparedness to sit for and take the national Board of Certification exam. Students will receive a pass/fail grade for this course.

**Prerequisite(s):** Requires departmental approval. Not open to non-degree graduate students.

## Aviation (AVN)

### Aviation Graduate Courses

**AVN 8086 AIRPORT SAFETY AND SECURITY (3 credits)**

This course will explore the role of airports in relation to safety and security. Topics will include regulations, responsibilities, security issues, ramp safety, disaster preparedness, and emergency management.

**Prerequisite(s):** AVN 1000 or its equivalent or permission of the instructor.

**AVN 8510 AEROSPACE EDUCATION WORKSHOP (3 credits)**

This course will focus on aviation and space education and its impact on society. It will seek to communicate knowledge, impart skill, and develop attitudes relative to the scientific, engineering and technical as well as the social, economic and political aspects of aviation and space flight efforts. (Cross-listed with TED 8510, STEM 8510).

**Prerequisite(s):** Graduate standing.

**AVN 9900 ADVANCED TOPICS (3 credits)**

This course provides a format for exploration of topics of interest to advanced students in public administration. Topics covered will change periodically in keeping with the interests of faculty and students. (Cross-listed with PA 9900).

**Prerequisite(s):** Admission to PhD program in Public administration or permission of instructor. Not open to non-degree graduate students.

## Biology (BIOL)

### Biology Graduate Courses

**BIOL 8010 SEMINAR IN BIOLOGY (1 credit)**

A study of current research in any of the divisions of biology. Graduate students will complete this course once for credit.

**Prerequisite(s):** Graduate student in biology and written permission of graduate faculty supervisor. Not open to non-degree graduate students.

**BIOL 8020 INDEPENDENT RESEARCH IN BIOLOGY (1-6 credits)**

Research work under supervision of a member of the graduate faculty. May be taken more than once for credit; up to 4 credits for thesis option of M.S. degree and up to 6 credits for the non-thesis option of the M.S. degree.

**Prerequisite(s):** Graduate student in biology and written permission of graduate faculty supervisor. Not open to non-degree graduate students.

**BIOL 8030 EVOLUTION: FROM GENOMES TO ECOSYSTEMS (3 credits)**

This course will prepare students to evaluate and discuss evolution as an underlying concept in all of biology. Further, it will provide a comprehensive overview of evolutionary processes related to the evolution of genomes, development, physiology, morphology, behavior, and ecosystems. (Cross-listed with STEM 8030).

**Prerequisite(s):** Courses for graduate admission or equivalent, or with permission of instructor.

**BIOL 8036 SPECIAL TOPICS IN BIOLOGY (3 credits)**

A lecture and/or laboratory course for biology majors pertaining to a specific biological topic not available in the regular curriculum. Topics will be developed by individual faculty members reflecting their special interests and expertise. The course may be repeated for credit. (Cross-listed with BIOL 4030).

**Prerequisite(s):** Graduate standing.

**BIOL 8040 TOPICS IN BIOLOGY (1 credit)**

Lecture courses for graduate students designed to provide exposure to biological specialties not offered in the regular curriculum.

**Prerequisite(s):** Graduate and permission. Not open to nondegree students. Not open to non-degree graduate students.

**BIOL 8045 MICROBIAL ECOLOGY (4 credits)**

Through an integrated lecture and laboratory course, this course will introduce students to the diversity and ecology of microbes in various environments (soils, water, plants, insects, etc.). Emphasis will be placed on molecular approaches to analyzing microbial diversity and evolution, as well as teacher-directed but student-led investigations. Students will participate in a continuum of course-based research experiences in molecular microbial ecology, from fieldwork to laboratory techniques and evolutionary analysis of DNA sequence data. The course explores ecological principles as they apply to microorganisms while emphasizing the molecular, biochemical, and evolutionary diversity in the microbial world. (Cross-listed with BIOL 3030, ENVN 3030).

**BIOL 8046 SPECIAL TOPICS IN BIOLOGY-LAB (1 credit)**

A laboratory course for biology majors pertaining to a specific biological topic not available in the regular curriculum, paired with a BIOL 8036/4030 Special Topics lecture course. Topics will be developed by individual faculty members reflecting their special interests and expertise. The course may be repeated for credit. (Cross-listed with BIOL 4034).

**Prerequisite(s):** Graduate standing.

**BIOL 8060 ADVANCED TOPICS IN BIOLOGY (3 credits)**

Lecture and/or laboratory courses for graduate students designed to provide exposure to biological specialties not offered in the regular curriculum.

**Prerequisite(s):** Graduate and permission. Not open to nondegree students.

**BIOL 8070 ADVANCED READINGS IN BIOLOGY (1-3 credits)**

An in-depth study of the literature in a limited segment of the biological sciences under the supervision of a graduate faculty member. May be taken more than once for credit up to a total of six credits.

**Prerequisite(s):** Graduate student in biology and written permission of graduate faculty supervisor. Not open to non-degree graduate students.

**BIOL 8106 BIOGEOGRAPHY (3 credits)**

This course is intended as an introduction to biogeography, the study of the distribution and evolution of organisms across space and through time. Usually offered every year. (Cross-listed with BIOL 4100, GEOG 4100, GEOG 8106, GEOL 4100, GEOL 8106)

**Prerequisite(s):** BIOL 1450 and 1750 or GEOL 3100 or BIOL 3100, junior-senior.

**BIOL 8116 STATISTICS FOR BIOLOGICAL SCIENCES (4 credits)**

Introduction to statistical methods and software used to display, summarize, analyze, and interpret biological and medical data. (Cross-listed with BIOL 4110)

**BIOL 8126 CONSERVATION BIOLOGY (3 credits)**

Study of biological diversity at the genetic, species and ecosystem levels, its values, and the factors that threaten it. We will explore the scientific basis of conservation biology and how it can be applied to the maintenance of biological diversity. Usually offered every year. (Cross-listed with BIOL 4120).

**Prerequisite(s):** Graduate student in Biology. Not open to non-degree graduate students.

**BIOL 8136 MOLECULAR GENETICS (4 credits)**

A lecture and lab course that explores the frontiers of molecular genetics research. Topics addressed will include DNA replication, gene function, gene expression, genetic manipulation, cloning, mutational analysis, genome sequencing, and epigenetics. Research techniques will include DNA/RNA isolation, PCR, cloning, gel electrophoresis, transgene generation, data analysis, and quantitative rtPCR. Students will get a solid grounding in scientific writing and presentations, as well as reading and assessing primary scientific literature. Lecture, discussion, and laboratory. Usually offered fall semester. (Cross-listed with BIOL 4130)

**Prerequisite(s):** BIOL 2140, 3020 and CHEM 2210 or 2260 or their equivalents. Not open to nondegree students.

**BIOL 8146 CELLULAR BIOLOGY (4 credits)**

This course is a modern study of mammalian cell function. Focus will be placed on developing skills in experimental cellular biology. Material covered will include tissue culture techniques, cell staining applications, fluorescent microscopy, determination of gene expression, and high-throughput assay design. (Cross-listed with BIOL 4140)

**Prerequisite(s):** BIOL 2140, 3020 and CHEM 2210 or 2250. Junior or senior undergraduate standing or graduate standing. Must enroll in laboratory section and lecture for this course. Not open to non-degree graduate students.

**BIOL 8150 PROFESSIONAL DEVELOPMENT IN BIOLOGY (2 credits)**

This course focuses on developing the skills needed for becoming a successful professional biologist. Students actively participate in developing key research and teaching skills including: developing and writing grant proposals and papers, communicating science to the general public and to professional audiences through oral and poster presentations, constructive reviews of the work of others in the context of teaching and as a working professional, and development of teaching materials and assessments. Professional and ethical norms in research and teaching are discussed throughout the course. By the end of the course, students will be able to evaluate alternative career paths within biology and devise development plans appropriate for those careers.

**Prerequisite(s):** Graduate student in biology and permission of graduate program chair.

**BIOL 8156 CANCER BIOLOGY (3 credits)**

The etiology of cancers, differences between types of malignancies, oncogenes and genetic modifiers, treatments, susceptibility, and tumor-induced immunosuppression are discussed. This is an active course focused on inquiry-based learning and the purpose of this course is to provide students a foundation in cancer biology while applying tools learned through cell biology, genetics, and immunology courses. (Cross-listed with BIOL 4150).

**BIOL 8166 BIOINFORMATICS FOR BIOLOGISTS (3 credits)**

This course intends to introduce fundamental concepts in bioinformatics with an emphasis on how to use biological databases and computational tools to solve common bioinformatics problems in biology and biomedicine. The topics consist of sequence database access and searching, sequence alignment and phylogeny, functional prediction of DNA and protein sequences, and genome sequencing and annotation. Students are expected to learn fundamental concepts in bioinformatics and gain extensive experience with the use of bioinformatics analysis tools. (Cross-listed with BIOL 4160).

**Prerequisite(s):** BIOL 2140 Genetics; BIOL 3020 Molecular Biology of the Cell; Or Permission of instructor

**BIOL 8170 ECOSYSTEM ANALYSIS FOR EDUCATORS (3 credits)**

This course is designed for education graduate students who wish to take a field-based biology course that uses an interdisciplinary approach to understanding the ecosystem of the tallgrass prairie. This course engages graduate students in methods reflecting multidisciplinary STEM strategies (e.g. scientific inquiry, modeling, geographic information system mapping, etc.) associated with research taking place at the Glacier Creek Preserve. Graduate students completing this course will develop advanced knowledge of ecology, restoration ecology, and monitoring of prairie habitat restoration. Graduate students will focus on the technical, biogeochemical, ecological and cultural aspects of analyzing and restoring the prairie ecosystem and its various habitats. (Cross-listed with STEM 8170)

**Prerequisite(s):** Graduate Standing or Permission from the Instructor.

**BIOL 8186 FRESHWATER ECOLOGY (4 credits)**

A study of the physical, chemical and biological relationships that serve to establish and maintain plant and animal communities in freshwater environments. (Cross-listed with BIOL 4180, ENVN 4180).

**Prerequisite(s):** Prerequisites: BIOL 1450 and BIOL 1750, junior-senior, or permission of instructor. Registration requirements: Must enroll in lab. Not open to non-degree graduate students.

**BIOL 8190 COMMUNITIES AND ECOSYSTEMS (3 credits)**

Advanced study of populations, communities and ecosystems; may require overnight weekend field trips.

**Prerequisite(s):** BIOL 3340/8345, graduate in biology. Not open to nondegree students.

**BIOL 8200 PLANT ECOLOGY (4 credits)**

Advanced study of plant communities and of individual plant species including relationships with the environment and vegetative dynamics. Emphases on methods of evaluation and analysis. May require overnight field trips.

**Prerequisite(s):** BIOL 3340/8345, graduate in biology. Recommended: BIOL 3530/8535.

**BIOL 8216 FIRE ECOLOGY (3 credits)**

Study of fire in ecosystems including characteristics of fire, effects on flora, fauna and the abiotic environment, and use in maintaining native ecosystems. May include two weekend field exercises. (Cross-listed with BIOL 4210)

**Prerequisite(s):** BIOL 3340; junior, senior, or graduate student

**BIOL 8226 POPULATION BIOLOGY (4 credits)**

Population biology takes a conceptual approach to study the dynamics, ecology, genetics, and evolution of populations. Topics include the growth and regulation of populations, population interactions, selection on individuals and groups, mating systems, and life history evolution. Implications of these topics for areas such as the ecology and evolution of disease, conservation, and resource management will be highlighted. Concepts are reinforced through labs emphasizing interpretation of results from population simulations and the relationship between theory and experimentation in population biology. Usually offered in alternate years. (Cross-listed with BIOL 4220).

**Prerequisite(s):** Graduate student in Biology or permission of instructor

**BIOL 8236 EVOLUTION (3 credits)**

The course emphasizes the general principles of evolution, particularly focusing on evolutionary changes and the mechanisms of evolution (natural selection, gene flow, mutation and genetic drift) that apply to all or most organisms. The course covers micro- and macroevolution, speciation, and human evolution. Students will discover how scientists can learn about what has happened in the evolutionary past and the most common patterns of change (i.e., changes that have characterized various groups of organisms). (Cross-listed with BIOL 4230).

**Prerequisite(s):** Prerequisites are BIOL 2140, junior or senior undergraduate status, Biology graduate status, or permission by the instructor. Not open to non-degree graduate students.

**BIOL 8246 MARINE BIOLOGY (3 credits)**

An introduction to the marine environment, this course explores physical conditions of the ocean including ocean chemistry, salinity, waves and currents, and tides as well as the ecology of planktonic, nektonic and benthic organisms— their communities and environments. Impacts of humans on the marine environment will also be covered. (Cross-listed with BIOL 4240)

**Prerequisite(s):** BIOL 1750

**BIOL 8250 STATISTICAL ANALYSIS AND DESIGN FOR BIOLOGICAL RESEARCH (4 credits)**

This course examines the statistical aspects of the design and analysis of laboratory and field experiments in biology. Basic statistical methods are reviewed and advanced methods presented. Lectures focus on an introduction to the theory behind experimental design and statistical analysis. Labs focus on how to properly complete and interpret statistical analyses, and also focus on how to use the R statistical computer package.

**Prerequisite(s):** Undergraduate course in statistics is recommended. Non-degree students must gain permission of the instructor before enrolling. Not open to non-degree graduate students.

**BIOL 8256 FIELD MARINE BIOLOGY (1 credit)**

This lab is a hands-on introduction to the marine environment using a field trip to the Gulf Coast. Students will observe first-hand examples of local marine habitats and organisms. Students will be required to take a trip to the Gulf Coast of Texas, Louisiana, Mississippi, and Alabama during Spring Break. Students will be required to provide their own basic camping and snorkeling gear. (Cross-listed with BIOL 4250)

**Prerequisite(s):** BIOL 1750, previous or concurrent enrollment in BIOL 4240 and permission of instructor.

**BIOL 8266 BEHAVIORAL ECOLOGY (3 credits)**

Behavioral ecology is the study of behavior from an evolutionary and ecological point of view. Through the integration of research at different organizational levels and the use of many different organisms, behavioral ecology is one of the most integrative fields in biological sciences. This course will provide an introduction to the basic concepts of behavioral ecology and the integrative approaches used in behavioral ecology. Further, the course will train students in critical reading and discussion of primary literature in writing and in an oral setting. (Cross-listed with BIOL 4260)

**Prerequisite(s):** Admission into the graduate college. Not open to non-degree graduate students.

**BIOL 8276 ANIMAL BEHAVIOR (3 credits)**

Behavior of diverse animals for the understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit. (Cross-listed with BIOL 4270, PSYC 4270, PSYC 8276)

**Prerequisite(s):** BIOL 1750 and PSYC 1010 or permission of instructor, junior-senior.

**BIOL 8286 ANIMAL BEHAVIOR LABORATORY (3 credits)**

Laboratory and field studies of animal behavior with an ethological emphasis. Classical laboratory experiences and independent studies will be conducted. (Cross-listed with BIOL 4280, PSYC 4280, PSYC 8286)

**Prerequisite(s):** PSYC 4270 or BIOL 4270 or PSYC 8276 or BIOL 8273. Not open to non-degree graduate students.

**BIOL 8296 NEUROETHOLOGY (3 credits)**

In the field of Neuroethology a major goal is to understand the neural bases of animal behaviors in a natural context. In this course students will investigate how behaviors are generated and modulated by the nervous system in organisms ranging from insects to mammals. We will explore the neural mechanisms underlying a variety of animal behaviors as they interact with their natural environment ranging from sensory perception of the world (e.g. echolocation, electrolocation), to locomotor movements (e.g. flying, swimming), to more complex behaviors (e.g. learning, memory). (Cross-listed with BIOL 4290, NEUR 4290, NEUR 8296, PSYC 8296).

**Prerequisite(s):** Graduate Standing. Not open to non-degree graduate students.

**BIOL 8326 HORMONES & BEHAVIOR (3 credits)**

In this course, students will examine the interaction between hormones, chemical messengers released from endocrine glands, and behavior in both human and animal systems. Methods for studying hormonal issues on behavior will be addressed. This course will provide students in psychology, biology, and related disciplines an understanding of how hormones affect sensory processing, motor activities, and processing of information in the central nervous system. (Cross-listed with BIOL 4320, PSYC 4320, PSYC 8326)

**Prerequisite(s):** Admission to graduate level PSYC program or permission of dept. Not open to non-degree graduate students.

**BIOL 8345 ECOLOGY (4 credits)**

Study of interrelationships between organisms and their biotic and abiotic environment; includes the physical environment, population biology, community dynamics, biotic interactions and evolution. Usually offered Fall, Spring, Summer. (Cross-listed with BIOL 3340).

**Prerequisite(s):** Prerequisites are BIOL 1450 and BIOL 1750; junior-senior or Biology graduate student; or permission by instructor. Not open to non-degree graduate students.

**BIOL 8416 WETLAND ECOLOGY AND MANAGEMENT (3 credits)**

This course will examine the principles and theory of wetland ecology with application towards wetland management and regulation. An interdisciplinary overview of physical, biological and regulatory aspects of wetlands will allow students to synthesize information from their backgrounds in geography, geology and ecology. Definitions, classifications, natural processes and functions of wetland environments will be presented. Labs concentrate on field techniques used to assess specific plant, animal, soil, and hydrological characteristics of wetlands. (Cross-listed with ENVN 4410 and BIOL 4410)

**Prerequisite(s):** BIOL 3340 or instructor permission.

**BIOL 8426 RESTORATION ECOLOGY (3 credits)**

Restoration Ecology examines how people assist with the recovery of ecosystems that have been degraded. The course will examine the theory and application of restoration ecology through lecture, discussion, field trips, and development of a restoration management plan for a degraded ecosystem near Omaha. The course will provide information and resources used by restoration and land management professionals to plan, implement, and manage restorations. (Cross-listed with BIOL 4420, ENVN 4420)

**Prerequisite(s):** Graduate standing.

**BIOL 8446 PLANT PHYSIOLOGY (4 credits)**

A study of plant processes and functions with emphasis on photosynthesis, growth and development, metabolism and mineral nutrition. (Cross-listed with BIOL 4440)

**Prerequisite(s):** BIOL1450, BIOL1750, and CHEM 2210 or CHEM 2250; or permission of instructor.

**BIOL 8450 BIOLOGY EDUCATION RESEARCH METHODS (3 credits)**

In this course, students will learn the methods of conducting pedagogical research in Biology, understand how people learn the concepts, practices, and ways of thinking in science and engineering; understand the nature and development of expertise in a discipline; help identify and measure appropriate learning objectives and instructional approaches that advance students toward those objectives; contribute to the knowledge base in a way that can guide the translation of statistical findings to classroom practice; and identify approaches to make science and engineering education broad and inclusive. Students will work with live data sets to evaluate effective pedagogical approaches in the biology classroom of various audiences (K-16).

**BIOL 8454 VIROLOGY LABORATORY (1 credit)**

A laboratory to accompany virology lecture. This course enables students to work with viruses in the laboratory and to conduct experiments using viral systems. Experimental design, data gathering, data analysis and manuscript writing will be integral parts of the course. The experiments include host cell characterization, viral infection, virus purification from infected cells, viral genome isolation and viral transfection. Sequence analysis and sequence comparison will also be introduced. Laboratory exercises will emphasize fundamental molecular biology techniques and instrumentation. Usually offered in Fall semester. (Cross-listed with BIOL 4454)

**BIOL 8456 VIROLOGY (3 credits)**

A comprehensive course about viruses. The course will address principles of viral infection, virus-host interaction, viral evolution and viral disease processes. Cellular and molecular aspects of viral infection will be the primary focus. This will include examination of viral particles, viral multiplication cycles, regulation of gene expression, viral assembly and viral escape. Viral immunology, viral defenses, viral vaccines and antiviral compounds will also be addressed. Emerging viruses and current viral topics will be a major part of the course. Usually offered in Fall semester. (Cross-listed with BIOL 4450)

**BIOL 8466 COMPARATIVE IMMUNOLOGY (4 credits)**

This course is an exploration of comparative immunology across kingdoms. There will be a strong focus on human as well as mouse immunology. Laboratory sessions require dissections to determine lymphoid anatomy of representative organisms. Samples will be prepared and analyzed using immunological techniques such as flow cytometry. (Cross-listed with BIOL 4460).

**Prerequisite(s):** Two classroom sessions and one laboratory session per week. Graduate standing. Not open to non-degree graduate students.

**BIOL 8496 MEDICINAL USES OF PLANTS (3 credits)**

A scientific study of the biochemical properties and physiological effects of medicinal plants, including their historical uses, current applications to varying systems of the human body, and pathways by which today's potent drugs have transitioned from wild flora. Usually offered Fall semesters of even-numbered years. (Cross-listed with BIOL 4490)

**BIOL 8535 FLORA OF THE GREAT PLAINS (4 credits)**

A study of common vascular plants found in the Great Plains region, including identification, description, and classification techniques and an introduction to the plant communities of Nebraska. Usually offered every Fall and Summer. (Cross-listed with BIOL 3530.)

**Prerequisite(s):** BIOL 1450-1750. Not open to nondegree students.

**BIOL 8606 GIS APPLICATIONS FOR ENVIRONMENTAL SCIENCE (1 credit)**

This course introduces the use of geographic information systems (GIS) and other geospatial tools for work in the fields of environmental science, ecology, and natural resource management. The course will develop a working knowledge of the common software and hardware tools used by ecologists through hands-on projects. (Cross-listed with BIOL 4600, ENVN 4600)

**Prerequisite(s):** BIOL 3340 or permission of instructor.

**BIOL 8645 MOLECULAR MICROBIOLOGY LAB (1 credit)**

This course will train students to perform techniques commonly used in microbiology labs, such as isolation of bacteria, staining of bacterial cells, use of different media, antibiotic susceptibility tests, polymerase chain reactions, and enzymatic assays. (Cross-listed with BIOL 4644).

**Prerequisite(s):** Prerequisites of BIOL 2140 and BIOL 3020 and either BIOL 3830/8835 or BIOL 4640/8646 prior or concurrent.

**BIOL 8646 MOLECULAR MICROBIOLOGY (3 credits)**

This course will cover the diversity observed in genomes, molecules, structures, metabolism, and regulation observed in microorganisms with a focus on bacteria and Archaea. Usually offered Fall semesters. (Cross-listed with BIOL 4640).

**Prerequisite(s):** Prerequisites are BIOL 2140 and BIOL 3020 or equivalents. Not open to non-degree graduate students.

**BIOL 8654 BIOCHEMISTRY I LABORATORY (1 credit)**

A laboratory course to help integrate the concepts learned in biochemistry lecture with the development of biochemical laboratory skills including experimental design, data analysis, presentation of results and communication of scientific information, with a focus on formal instruction in journal-style writing and notebook skills. There is an emphasis on protein properties, including enzyme activity. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. (Fall) (Cross-listed with BIOL 4654, CHEM 4654, CHEM 8654).



**BIOL 8656 BIOCHEMISTRY I (3 credits)**

A comprehensive introduction to biochemistry emphasizing: structure-function relationships for proteins, carbohydrates, lipids, and nucleic acids; protein purification; enzyme kinetics and mechanisms; membranes and membrane transport; carbohydrate metabolism including glycolysis, the citric acid cycle and oxidative phosphorylation; and important applications of thermodynamics and the properties of water to living systems. (Fall) (Cross-listed with BIOL 4650, CHEM 4650, CHEM 8656).

**Prerequisite(s):** CHEM 2260 and CHEM 2274; and either CHEM 2400 or BIOL 3020, all with a C- or better. Other comparable courses taken at accredited colleges or universities are acceptable. BIOL 8654 must be taken concurrently.

**BIOL 8664 BIOCHEMISTRY II LABORATORY (1 credit)**

A laboratory course to help integrate the concepts learned in Biochemistry II lecture with the development of biochemical laboratory skills, to gain practical experience in experimental design, data analysis, presentation of results and communication of scientific information, with a focus on formal instruction in journal-style writing and notebook skills. There is an emphasis on nucleic acid properties. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. (Spring) (Cross-listed with BIOL 4664, CHEM 4664, CHEM 8664).

**BIOL 8666 BIOCHEMISTRY II (3 credits)**

A continuation of the study of the structure and function of biomolecules and biochemical reactions with an emphasis on metabolism of carbohydrates, lipid, amino acids and nucleotides, and the chemistry of signal transduction and genetic information transfer. (Spring) (Cross-listed with BIOL 4660, CHEM 4660, CHEM 8666).

**Prerequisite(s):** CHEM 8656 and CHEM 8654 or BIOL 8656 and BIOL 8654 with a grade of B- or better. BIOL 8664 must be taken concurrently.

**BIOL 8685 BIOLOGY OF AFRICA (3 credits)**

Biology of Africa (3) Introduction to the plants, animals, and habitats of Africa. Although other groups are included, this course will focus on the large mammals of east Africa and will pay particular attention to elephant reproduction and biology. Other topics include Serengeti migrations, hippos, lions and other large cats, reptiles, and human evolution. Usually offered alternate Spring semesters. (Cross-listed with BIOL 3680).

**BIOL 8695 BIOLOGY OF AFRICA LAB (1 credit)**

BIOL 3690/8695 Biology of Africa (1) A Hands-on introduction to the major plants and animals of east Africa using a field trip to South Africa. Students will observe, first hand, examples of the flora and fauna of the African savannah, partake in research on elephant reproductive biology, and observe historic African tribal culture.. Students will be required to take a trip to South Africa including Johannesburg, Hoedspruit, Kruger National Park, and Skukuza. Students will be required to register their travel plans through Education Abroad. Usually offered alternate Summer semesters. Students enrolled in this course must have taken BIOL 3680/8685 during the spring semester immediately prior to this class, or have taken it some semester prior. (Cross-listed with BIOL 3690).

**Prerequisite(s):** Previous or concurrent enrollment in BIOL 3680/BIOL 8685 lecture.

**BIOL 8716 TOXICOLOGY (3 credits)**

An overview of the fundamentals of toxicology. Concepts include the dose-response relationship, absorption, distribution and excretion of toxicants, and the biotransformation of xenobiotics. Emphasis will be given to metals, pesticides, pharmaceutical compounds, chemical carcinogenesis and endocrine disruption. Usually offered Fall. (Cross-listed with BIOL 4710)

**Prerequisite(s):** CHEM 2210 or 2260 and BIOL 1750, BIOL 3020 or equivalent.

**BIOL 8735 FAUNA OF THE GREAT PLAINS (3 credits)**

A survey of the common animal groups found in the Great Plains, including their evolution, ecology, distribution and specific adaptations to the environment of the temperate North American grasslands.

**Prerequisite(s):** BIOL 1750. Not open to nondegree students.

**BIOL 8736 VERTEBRATE ENDOCRINOLOGY (4 credits)**

An overview of the fundamentals of vertebrate endocrinology. Concepts include: the mammalian hypothalamus-pituitary system, the endocrinology of mammalian reproduction, the mammalian adrenal glands, endocrine disruption, endocrinology and metabolism. (Cross-listed with BIOL 4730)

**Prerequisite(s):** BIOL 1750, BIOL 3020 or equivalent. Not open to non-degree graduate students.

**BIOL 8746 ANIMAL PHYSIOLOGY (3 credits)**

An overview of the fundamentals of animal physiology. Concepts include: the physiology of nerve and muscle function, endocrine function, cardiovascular and respiratory function, oxygen and carbon dioxide delivery by the blood, and osmoregulation and excretion. The course is comparative in nature, including examples from humans, mammals, vertebrates and invertebrate animals. Usually offered Spring. (Cross-listed with BIOL 4740.)

**BIOL 8760 CLINICAL REASONING (3 credits)**

This is an intensive class in which students will translate biological concepts into solving case-based scenarios in clinical medicine. Relevant readings will prepare students to address these challenges in small-group settings. Intended as an advanced preparatory course for healthcare professionals or students desiring exposure to clinical decision-making. Usually offered during Summer semester.

**Prerequisite(s):** Molecular Biology; Microbiology or Immunology; plus instructor approval.

**BIOL 8766 GENOME TECHNOLOGY AND ANALYSIS (3 credits)**

This course will introduce the latest genome sequencing technologies and their broad applications in biology and medicine. Students will learn how genome sequencing is conducted by different platforms and obtain practical experience of how to use bioinformatics tools for genome analysis. Students are expected to be able to perform sequence analysis efficiently and interpret the results properly. (Cross-listed with BIOL 4760)

**Prerequisite(s):** BIOL2140 Genetics; or Permission of instructor

**BIOL 8770 CLINICAL READINGS (3 credits)**

This course is a rigorous study of current biomedical, translational, and clinical primary literature spanning a wide range of human health and disease.

**Prerequisite(s):** Graduate and written permission of graduate faculty member.

**BIOL 8786 VERTEBRATE ZOOLOGY (4 credits)**

A study of the general biology of the subphylum vertebrata including the morphology, anatomy, physiology and ecology of vertebrate representatives. (Cross-listed with BIOL 4780)

**Prerequisite(s):** Prerequisites are BIOL 1450, BIOL 1750, and Junior or Senior standing.

**BIOL 8796 MAMMALOLOGY (4 credits)**

The biology of mammals, including their evolution, functional morphology, physiology, ecology, zoogeography, behavior, classification and identification, with emphasis on North American groups. Field trips. Usually offered in alternate years. (Cross-listed with BIOL 4790)

**Prerequisite(s):** BIOL 1450, BIOL 1750, junior or senior standing. Must enroll in laboratory section.

**BIOL 8826 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)**

Seminar on environmental law and regulation. The course will address federal regulations, implementing instructions, legal principles and requirements. The major federal environmental laws, air and water quality, solid and hazardous waste, and pollution prevention and remediation will be discussed. Usually offered Fall semesters.

**Prerequisite(s):** Junior-senior and permission.



**BIOL 8835 BIOLOGY OF PATHOGENIC MICROORGANISMS (3 credits)**

This course will cover diseases commonly caused by microorganisms and the features of the microorganisms that cause those diseases. The course will also cover terms used to describe infections, their transmission and their occurrence, and the defenses of humans against infections. The goal of the course is to provide students with the knowledge to be able to diagnose common infectious diseases based on symptoms and test results. Usually offered in Spring semesters. (Cross-listed with BIOL 3830).

**Prerequisite(s):** BIOL 2140 or BIOL 2440 or BIOL 3240 or the equivalent, or by instructor permission. Not open to non-degree graduate students.

**BIOL 8836 DEVELOPMENTAL GENETICS (2 credits)**

This course considers experimental approaches in developmental genetics and provides students with first-hand experience in laboratory techniques used in developmental genetics. (Cross-listed to BIOL 4830)

**Prerequisite(s):** This course considers experimental approaches in developmental genetics and provides students with first-hand experience in laboratory techniques used in developmental genetics.

**BIOL 8846 HERPETOLOGY (4 credits)**

The biology of amphibians and reptiles, including their evolution, classification, anatomy, physiology, ecology, distribution and identification, with emphasis on North American groups. Methods for studying herptiles are examined. Usually offered in Spring semesters of even years. (Cross-listed with BIOL 4840).

**Prerequisite(s):** Prerequisites are BIOL 1450, BIOL 1750 and Junior-Senior standing. Must enroll in lab. Not open to non-degree graduate students.

**BIOL 8856 DEVELOPMENTAL BIOLOGY (3 credits)**

This course explores principles underlying the development of multicellular organisms, stressing the environmental, genetic, molecular, cellular, tissue, and evolutionary mechanisms of animal development. Usually offered once per year. (Cross-listed with BIOL 4850)

**BIOL 8866 COMPARATIVE GENOMICS (3 credits)**

This course will introduce fundamental concepts in genomics and genome comparison. Students will learn how genomes are constructed, how they evolve, how individual genomes are unique, and what genomic knowledge means in terms of human health and medicine. (Cross-listed with BIOL 4860)

**BIOL 8876 MOLECULAR AND CELLULAR NEUROBIOLOGY (3 credits)**

This course presents foundational topics in molecular and cellular neurobiology in the context of how the nervous system is functionally organized. Topics include: nervous system cell types and their subcellular organization; electrical properties of neurons and glia; energy metabolism and biochemistry of the brain; intra- and intercellular neuronal signaling; the regulation of gene expression in neuronal cells; synaptic plasticity; and how these are altered in disease. (Cross-listed with BIOL 4870, NEUR 4870, NEUR 8876).

**Prerequisite(s):** NEUR 1500, or both NEUR 1520 and NEUR 1540, or BIOL 3020, or permission of instructor.

**BIOL 8896 GENES, BRAIN, AND BEHAVIOR (3 credits)**

This course will evaluate the complex interaction between an organism's genome and neural activity pattern in the nervous system as related to behavior. In this course students will explore how changes in gene expression (allelic variants, epigenetics, differential regulation) and gene networks within neural tissue can reciprocally influence behaviors such as communication, foraging, reproduction, and cognition. (Cross-listed with BIOL 4890, NEUR 4890, NEUR 8896, PSYC 8896)

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**BIOL 8946 ENTOMOLOGY (4 credits)**

The study of insects; their classification, morphology, physiology, behavior, life histories, ecology and evolution. (Cross-listed with BIOL 4940)

**Prerequisite(s):** BIOL 1450, BIOL 1750. Junior or Senior standing.

**BIOL 8966 ADVANCED GENETICS (3 credits)**

An in-depth consideration of topics in genetics, including the conceptual and molecular definition of a gene, cytogenetics, mutation, population genetics, developmental genetics, gene regulation and the application of genetics to other areas of biology. (Cross-listed with BIOL 4960).

**Prerequisite(s):** BIOL 2140 and BIOL 3020 and concurrent enrollment or completion of either CHEM 3650 or CHEM 4610 or CHEM 4650 or BIOL 4650, or permission of the instructor.

**BIOL 8976 ADVANCED BOTANY (4 credits)**

Advanced Botany examines plant structures (cells, tissues, and organs) and their connections with plant functions (growth, reproduction, photosynthesis, respiration, and dispersal). Topics covered include energy metabolism, development and morphogenesis, genetics, ecology, and the latest in plant taxonomy and phylogeny, keeping students on the forefront of cutting-edge botanical research. In lab, students conduct activities such as dissecting plant organs, making microscope slides, and conducting plant-based experiments, using plants from the local area, from native Great Plains collections, and from around the world and grown in the greenhouse. Students compare and contrast both physiological and morphological adaptations to varying environments. (Cross-listed with BIOL 4970, ENVN 4970).

**Prerequisite(s):** Graduate Standing

**BIOL 8986 ORNITHOLOGY (4 credits)**

An introduction to the general biology of birds, including their anatomy, physiology, behavior, ecology, classification and identification with emphasis on North American groups. Usually offered in alternate years. (Cross-listed with BIOL 4980)

**Prerequisite(s):** BIOL 1750.

**BIOL 8990 THESIS (1-6 credits)**

An original and independent research project written under the supervision of a faculty thesis advisory committee.

**Prerequisite(s):** Graduate student in biology and written permission of graduate faculty supervisor. Not open to non-degree graduate students.

## Biomechanics (BMCH)

### Biomechanics Graduate Courses

**BMCH 8000 SEMINAR IN BIOMECHANICS (0 credits)**

Required non-credit course for graduate students in biomechanics. Intended to familiarize the graduate student with current ongoing biomechanical research at UNO and other institutions. The seminar will additionally include topics focusing on professional development, job and educational opportunities, and biomechanical methodologies.

**Prerequisite(s):** Must be a student in BMCH graduate program. Not open to non-degree graduate students.

**BMCH 8006 BIOMATERIALS (3 credits)**

Students will learn the classification, properties, characterization methods, body interactions, applications, and design principles of biomaterials. (Cross-listed with BMCH 4000).

**BMCH 8016 WEARABLE MATERIALS FOR BIOMECHANICAL PERFORMANCE I (3 credits)**

This course contains lecture and lab components focused on the design and characterization of wearable materials used in biomechanical and biomedical applications for heat management, moisture removal, and respiratory protection. Students will learn the classification, properties, evaluation methods, and design principles of wearable materials. (Cross-listed with BMCH 4010).

**Prerequisite(s):** BMCH 8006 or BMCH 8676 or Department Permission

**BMCH 8020 WEARABLE MATERIALS FOR BIOMECHANICAL PERFORMANCE II (3 credits)**

This course contains lecture and lab components focused on the design and characterization of wearable materials used in biomechanical and biomedical applications for protection against physical and chemical threats. Students will learn the classification, properties, evaluation methods, and design principles of wearable materials. (Cross-listed with BMKI 9021).

**Prerequisite(s):** BMCH 4010/BMCH 8016 (WEARABLE MATERIALS FOR BIOMECHANICAL PERFORMANCE I) or Department Permission

**BMCH 8030 BIostatistics in Biomechanics I (3 credits)**

The focus of the course is to prepare students to understand and apply research and biostatistical methods needed in the design and analysis of biomechanical investigations. The major topics to be covered include research design and multiple linear regression. (Cross-listed with BMKI 9031)

**Prerequisite(s):** Graduate Standing in Biomechanics program or Department Permission.

**BMCH 8100 NONLINEAR ANALYSIS FOR MOVEMENT STUDIES (3 credits)**

This course is to introduce different nonlinear methods for the analysis of biological and movement time series. Emphasis will be given on understanding the algorithms behind each nonlinear method. (Cross-listed with BMKI 9101).

**Prerequisite(s):** Instructor Permission.

**BMCH 8106 BIOINSPIRED ROBOTICS (3 credits)**

The goal of the course is to involve students in an interdisciplinary vision of biomechanics, biology, engineering and architecture by learning how humans and other animals function in their environment. These design principles from nature can be translated into novel devices, structures, and robots. (Cross-listed with BMCH 4100).

**BMCH 8116 3D PRINTING IN HEALTHCARE (3 credits)**

A study of basic principles and applications of additive manufacturing (i.e., 3D printing) in healthcare settings. This course will incorporate introductory lectures, practical applications, case studies, and hands-on experiences incorporating basic design techniques and 3D printing. Students will be exposed to various 3D printing techniques and approaches. This course will equip students with knowledge and hands-on experience of basic design techniques and 3D printing. Students will demonstrate, evaluate, and apply technical knowledge about computer aided design and 3D printing. The final project includes a presentation of short grant proposal. (Cross-listed with BMCH 4110).

**BMCH 8200 MATLAB FOR MOVEMENT SCIENCES (3 credits)**

Introduction to Matlab software, plotting data, spectral analysis and the Fourier transform, data smoothing, and image analysis of movement related data. All topics will be implemented using Matlab. (Cross-listed with BMKI 9201).

**Prerequisite(s):** Instructor permission.

**BMCH 8206 METHODS IN BIOMECHANICS I (3 credits)**

In this course students learn about the methods and equipment used in biomechanics as well as the analysis of data collected from those methods. Course experiences include both lecture and lab based learning. (Cross-listed with BMCH 4200).

**Prerequisite(s):** Department Permission

**BMCH 8216 METHODS IN BIOMECHANICS II (3 credits)**

In this course students learn about advanced methods and equipment used in biomechanics, as well as the analysis of data collected from those methods. Course experiences include both lecture and lab based learning. This course builds on the experience gained in BMCH 4200/8206, Methods in Biomechanics I. (Cross-listed with BMCH 4210).

**Prerequisite(s):** BMCH 8206 or Department Permission

**BMCH 8220 METHODS IN CARDIOVASCULAR BIOMATERIALS RESEARCH (3 credits)**

This course contains lecture and lab components focused on cardiovascular biomaterial development and characterization methods used in academia and industry. The lecture component will provide the necessary clinical background of cardiovascular diseases and the theoretical background of cardiovascular biomaterials and state-of-the-art research methods. The lab component will provide practical experience focused on cardiovascular biomaterial design, manufacturing, and characterization methods. (Cross-listed with BMKI 9221).

**BMCH 8300 STEM TEACHING METHODS FOR DEVICE DESIGN (3 credits)**

STEM Teaching in Biomechanics focuses on principles in teaching including teaching models (Problem-Based, Team-Based, Inquiry-Based teaching), student assessment, classroom logistics/organization, and device design through a mentorship project. (Cross-listed with BMKI 9301, STEM 8300).

**BMCH 8400 MOTOR LEARNING I (3 credits)**

Discussion and analysis of scientific principles related to the learning of motor skills; review related literature and research in motor learning. The focus of the course is on recent theories of how movements are acquired and performed, and on factors that have implications for motor learning throughout the life span. (Cross-listed with BMKI 9401).

**Prerequisite(s):** Department Permission.

**BMCH 8410 MOTOR CONTROL I (3 credits)**

The focus of the course is to explore the study of the conditions and factors that influence the control and performance of motor skills from both neurophysiological and psychobiological perspectives. (Cross-listed with BMKI 9411).

**Prerequisite(s):** Department Permission. Not open to non-degree graduate students.

**BMCH 8420 MOTOR DEVELOPMENT (3 credits)**

This course focuses on the study of motor development, the processes that underlie this development and the factors that influence it. Students will gain an understanding of the major theoretical perspectives of motor development across the life span with special emphasis given in child development. (Cross-listed with BMKI 9421).

**Prerequisite(s):** Department Permission.

**BMCH 8450 ADVANCED BIOMECHANICS (3 credits)**

The course will address the biomechanical basis of human performance including mechanical analysis of human gait, fundamental movement patterns and techniques used for collecting biomechanical data. (Cross-listed with BMKI 9451).

**Prerequisite(s):** BMCH 4630 (Biomechanics) [previously PE 4630] or Instructor Permission.

**BMCH 8646 ORTHOPEDIC BIOMECHANICS (3 credits)**

Orthopedic Biomechanics focuses on the use of biomechanical principles and scientific methods to address clinical questions that are of particular interest to professionals such as orthopedic surgeons, physical therapists, rehabilitation specialists, and others. (Cross-listed with BMCH 4640).

**Prerequisite(s):** Department Permission

**BMCH 8666 CLINICAL IMMERSION FOR RESEARCH AND DESIGN (3 credits)**

This course will involve exposure to current clinical practices, identification of unmet clinical needs, and information regarding future career options. In this course, students will be matched with local clinical sites to provide a unique opportunity for innovative and interdisciplinary approaches to problem solving subject to practical constraints. Concepts in clinical rehabilitation, integrated assessments, regulation of medical devices in health care will be covered. This course will review the latest research efforts for rehabilitation in the context of device design and implementation. (Cross-listed with BMCH 4660).

**Prerequisite(s):** Instructor Permission. Not open to non-degree graduate students.

**BMCH 8676 INTRODUCTION TO MECHANICS OF BIOMATERIALS (3 credits)**

In this course students will learn how to analyze the stresses and strains in different structures under complex loading conditions with extensive examples from biomaterials and materials generally used in the medical device field. (Cross-listed with BMCH 4670).

**Prerequisite(s):** BMCH 3000 or Department Permission

**BMCH 8686 SPORTS BIOMECHANICS (3 credits)**

This course is intended to provide students with a foundational knowledge on how to analyze sport movements through biomechanical analytical methods. Students will utilize foundational biomechanical principles and apply them to a variety of sports and associated movements. (Cross-listed with BMCH 4680).

**Prerequisite(s):** BMCH 4630 or KINS 4100 or Instructor Permission

**BMCH 8690 MATHEMATICS OF BIOMECHANICAL DATA PROCESSING (3 credits)**

Biomechanics is a rapidly changing and technologically dependent field of study. A thorough understanding of the factors influencing outcome measures is critical to correctly interpreting results. Students will be exposed to various data acquisition systems, approaches, and choices required to assess the computational aspects of biomechanical data critically. This course will equip students to complete independent processing from raw data to 3D joint angles and forces. (Cross-listed with BMKI 9691).

**Prerequisite(s):** Departmental Permission

**BMCH 8696 CARDIOVASCULAR BIOMECHANICS (3 credits)**

This course will introduce students to cardiovascular biomechanics, emphasizing the integration of analytical and experimental methods to better understand the mechanobiology of tissues. (Cross-listed with BMCH 4690).

**Prerequisite(s):** BMCH 3000, BMCH 4670, or Department Permission

**BMCH 8706 INTERNSHIP IN SPORTS MEDICINE AND BIOMECHANICS RESEARCH (3 credits)**

This course is an on-campus, supervised, educational work experience of at least 150 clock hours at an approved worksite offering programs and experiences in sports medicine or biomechanics. (Cross-listed with BMCH 4700, ATHT 8706).

**Prerequisite(s):** Instructor permission

**BMCH 8900 INDEPENDENT RESEARCH IN BIOMECHANICS (1-6 credits)**

In this course individuals or groups will conduct research projects for the study and analysis of biomechanical topics.

**Prerequisite(s):** Permission of the Department and approval by Faculty Advisor. Not open to non-degree graduate students.

**BMCH 8910 INDEPENDENT STUDY IN BIOMECHANICS (1-6 credits)**

This is a variable credit course designed for graduate students in Biomechanics who would benefit from independent reading assignments and problems. Independent study enables individual students or a small group of students to focus on topics typically not explored in other offerings or to explore topics currently offered in further depth. (Cross-listed with BMKI 9911).

**Prerequisite(s):** Graduate student in BMCH and approval by Faculty Advisor. Not open to non-degree graduate students.

**BMCH 8990 THESIS IN BIOMECHANICS (1-6 credits)**

A research project, designed and executed under the supervision of the chair and approval by members of the graduate student's advisory committee. In this project the student will develop skills in research design, research conduct, data analysis, and reporting. The final product of this course will be an original thesis of independent scientific investigation.

**Prerequisite(s):** Department Permission. Not open to non-degree graduate students.

# Biomedical Informatics (BMI)

## Biomedical Informatics Graduate Courses

**BMI 8000 ADVANCES IN BIOMEDICAL INFORMATICS (0 credits)**

BMI 8000 provides a regular forum for BMI graduate students, where the latest developments in the field of Biomedical Informatics are introduced and discussed. The course also functions as a central communication and collaboration hub for graduate students in BMI. Participation is required.

**Prerequisite(s):** Students in the MS in BMI and PhD in BMI program may register. Not open to non-degree graduate students.

**BMI 8020 ADVANCED COURSE IN BIOINFORMATICS (3 credits)**

This is a special topics course designed to explore the research interests of faculty and students. Therefore, topics may include, but are not limited to, such areas of study as next-generational sequencing, biological networks, proteomics, metabolomics, and biomedical informatics.

**Prerequisite(s):** Admission to the MS/PhD Program in the College of Information Science and Technology, or permission of the instructor. Not open to non-degree graduate students.

**BMI 8070 HEALTH INFORMATICS RESEARCH METHODS (3 credits)**

This is a foundational course for health informatics research methods. Health informatics is a broad term that denotes disciplines that encompass the use of computer and information science to manage all aspects of healthcare data and the use of healthcare information to foster better collaboration among a patient's various healthcare providers. This course takes a practical approach to understanding health informatics research methods through the use of real-life examples, step-by-step research method practices, and applying various analytical procedures. The course will guide the student through the process of designing research studies using a variety of research methods. Students are introduced to quantitative, qualitative and mixed methods designs through hands-on assignments and reviewing selected research studies. In addition, students will learn how to conduct a literature review. Students will learn about grant opportunities, the proposal writing process and IRB applications.

**Prerequisite(s):** Graduate student status and prior or concurrent enrollment in BMI 8100, or by instructor approval.

**BMI 8080 SEMINAR IN BIOMEDICAL INFORMATICS (3 credits)**

This is a variable-content course that engages students in current research in Biomedical Informatics and develops skills in the oral and written presentation of scientific research.

**Prerequisite(s):** Permission of the instructor. Additional prerequisite courses may be required for particular course offerings.

**BMI 8100 INTRODUCTION TO BIOMEDICAL INFORMATICS (3 credits)**

This course offers students an overview of the field of biomedical informatics, combining perspectives from computing, biosciences and medicine. The historical development of the field and its influence on biological, clinical, and translational research will be discussed. Issues related to bioinformatics, clinical, bioimaging and public health/population informatics will be explored.

**Prerequisite(s):** Class standing of senior or above.

**BMI 8300 PUBLIC HEALTH GENOMICS (3 credits)**

This course will address the biopsychosocial issues that bridge genomics and public health, which are generally considered two vastly different disciplines. The focus will center on understanding how genomics may be incorporated into health promotion and disease prevention efforts for individuals and population.

**Prerequisite(s):** Class standing of senior or above.

**BMI 8310 ADVANCED HEALTH INFORMATICS (3 credits)**

The purpose of this course is to equip students with advanced skills in analyzing healthcare data using state-of-the-art frameworks, tools, and applications. Students will learn to effectively use medical and health data, interpret results from analyzing this data, and construct a cohesive story outlining their findings in a clinical environment. Upon completion of this course, students will be able to outline current trends in health informatics, summarize the legislative and ethical barriers present in the field, and recognize common standardizations used in health informatics. In addition, students will be able to apply state-of-the-art data analytics and visualization approaches to tackle health relevant problems, using real world data from the MIMIC IV dataset.

**Prerequisite(s):** BMI 8100 and ISQA 8156 or Permission of the instructor. Not open to non-degree graduate students.

**BMI 8320 CONSUMER HEALTH INFORMATION SYSTEMS (1 credit)**

Consumer health informatics as a field focuses on health informatics from the perspective of the consumer or patient, health literacy, and consumer education. Creative problem solving and fluency in this subdiscipline requires competence in information structures and processes that empower consumers to manage their own health. In this course, students will strategically review publicly available databases, datasets, and projects involved in consumer health. With this information in hand, students will design their own consumer health information system geared towards addressing a consumer or patient education and literacy challenge of their interest.

**BMI 8400 LINEAR ALGEBRA FOR ADVANCED COMPUTING AND AI (3 credits)**

Matrix Analysis and Linear Algebra are at the core of several important algorithms and techniques that are widely used in machine learning for data analytics, imaging informatics, and bioinformatics. The course will explore fundamental concepts of matrix analysis and linear algebra as they apply to machine learning, emphasizing applications over proofs. Students will have an opportunity to perform "pencil and paper" calculations as well as more sophisticated numerical computations using a programming language/statistical environment of their choice. Applications of linear algebra to machine learning in the context of imaging informatics and biomedicine will be covered in depth.

**Prerequisite(s):** Proficiency in programming and knowledge of calculus are required. Familiarity with concepts from biology is beneficial but not required.

**BMI 8540 FOUNDATIONS IN PROGRAMMING FOR BIOMEDICAL INFORMATICS (3 credits)**

Foundations in programming, software development, pipeline management, and version control are critical for developing a capable biomedical informatics workforce. This course will provide foundations in programming skills necessary for students with a limited computer science background to develop fluency and basic skills in the concepts of software development for biomedical informatics. Specific topics covered will include Unix/Linux shell programming, Python, databases, Applications Programming Interface (APIs), software versioning, and data management.

**Prerequisite(s):** Experience with programming in a scripting, database management, or object-oriented programming language is strongly recommended but not required.

**BMI 8850 BIOMEDICINE FOR THE NONMEDICAL PROFESSIONAL (3 credits)**

This course will cover the basic principles of molecular and cellular biology, human anatomy, physiology, and pathology that are essential to an informed use of biomedical data. The biomedical topics will be interspersed and complemented with discussions about relevant data sources and datasets, emphasizing their strengths and weaknesses, and the lectures will be enriched with virtual anatomical dissections. Reading assignments from the primary literature and multimedia materials will supplement the textbook.

**Prerequisite(s):** Class standing of senior or above

**BMI 8866 BIOINFORMATICS ALGORITHMS (3 credits)**

The main objective of this course is to provide an organized forum for students to understand the foundations of algorithmic design and analysis in the context of health and biological data. The course will present fundamental concepts in algorithms (exhaustive, greedy, graph, heuristic, and more) and explore how those concepts extend to bioinformatics and related fields, such as biomedical informatics, and health informatics. Students will learn about historical context of these algorithms and how they were pivotal in forming more complex modern approaches, and will explore advanced algorithms in their area of interest. Students will also exercise their programming skills with the opportunity to implement and apply bioinformatics algorithms to real data, so to better grasp the technical components of algorithmic design and analysis. (Cross-listed with BIOI 4860, ACMP 4860).

**Prerequisite(s):** BMI 8540 or prior completion of an undergraduate data structures course

**BMI 8896 COMPUTERIZED GENETIC SEQUENCE ANALYSIS (3 credits)**

The goal of this course is to introduce students to major topics in computerized analysis of genetic sequences. In particular the course will allow students to become familiar with the computational tools and software that aid in the modern molecular biology experiments and analysis of experimental results. Following the completion of this course, it is expected that the students will have a basic understanding of the theoretical foundations of the sequence analysis tools and develop competence in evaluating the output from these tools in a biological context. This course will emphasize hands-on experience with the programs for nucleotide and amino acid sequence analysis and molecular phylogeny. (Cross-listed with BIOI 4890).

**Prerequisite(s):** Permission from the instructor.

**BMI 8900 INDEPENDENT RESEARCH IN BIOMEDICAL INFORMATICS (1-3 credits)**

The content of the course will vary, however both the student and the faculty member must sign an Independent Research Agreement and file it with the Biomedical Informatics Graduate Program Committee before registration for the course. This agreement will detail the project, the schedule for its completion, the form of the output, the method of evaluation and other relevant information pertaining to the project.

**Prerequisite(s):** Permission of instructor, and at least 12 hours of course work toward the MS BMI program should be completed.

**BMI 8910 INTERNSHIP (1-3 credits)**

The purpose of this course is to provide the students with an opportunity for practical application and further development of knowledge and skills acquired in the Biomedical Informatics graduate program. The internship gives students professional work experience and exposure to the challenges and opportunities faced by IT professionals in the workplace.

**Prerequisite(s):** Students must have completed a minimum of 12 credit hours towards the MS in BMI program. Not open to non-degree graduate students.

**BMI 8950 BIOMEDICAL INFORMATICS GRADUATE CAPSTONE (3 credits)**

The graduate capstone course challenges students to prove their mastery of the skills and domain knowledge they have gathered throughout their program of study. The course begins with a module on project management and research best practices. The majority of the course is structured around facilitating a non-trivial semester-long project, often in service to a third-party project sponsor, such as a community, industry, or government partner. The course is intended for students that have selected the coursework option, not thesis, and that are close to graduation.

**Prerequisite(s):** Students must have 9 credit hours or fewer left in the program, including this course. Students must have completed all core courses, and core electives are recommended but not required. Not open to non-degree graduate students.



**BMI 8970 INDEPENDENT STUDY IN BIOINFORMATICS (1-3 credits)**

This is a variable-credit course designed for graduate students in bioinformatics who would benefit from independent reading assignments and research-type problems. Independent study enables coverage of topics not taught in scheduled course offerings.

**Prerequisite(s):** Permission of a supervising faculty member and approval of the Bioinformatics Program Committee Chair. A formal description of the problem area to be investigated, the resources to be used, and the results to be produced must be prepared.

**BMI 8990 THESIS IN BIOMEDICAL INFORMATICS (1-6 credits)**

A research project, designed and executed under the supervision of the chair and approval by members of the graduate student's thesis advisory committee. In this project the student will develop and perfect a number of skills including the ability to design, conduct, analyze and report the results in writing (i.e., thesis) of an original, independent scientific investigation.

**Prerequisite(s):** Graduate major in BMI and approval of the Thesis Advisory Committee. Not open to non-degree graduate students.

**BMI 9900 ADVANCED RESEARCH IN BIOMEDICAL INFORMATICS (3 credits)**

This course provides a format for exploring advanced research areas for doctoral students in Biomedical Informatics and related fields. Specific topics will vary in keeping with research interest of faculty and students.

**Prerequisite(s):** Admission to graduate program in Biomedical Informatics. Not open to non-degree graduate students.

**BMI 9980 INDEPENDENT RESEARCH IN BIOMEDICAL INFORMATICS (1-3 credits)**

This course allows students to research a topic of their interest that is not available in a formal course. The topic to be studied must be agreed upon by the student and the instructor.

**Prerequisite(s):** Admission to Ph.D. program in Biomedical Informatics and permission of instructor. Not open to non-degree graduate students.

**BMI 9990 DISSERTATION (1-12 credits)**

The dissertation is an original research project conducted and written under the direction of a faculty dissertation committee supervisory committee. The dissertation provides the student with an opportunity to do original research that contributes to advancing the body of knowledge in health or bioinformatics and demonstrate technical mastery of the discipline.

**Prerequisite(s):** Admission to the Ph.D. program in Biomedical Informatics and candidacy for the Ph.D. degree. Prior to enrolling for dissertation hours, the students must have permission of the supervisory committee. Not open to non-degree graduate students.

## Biomechanics and Kinesiology

### Biomechanics and Kinesiology Graduate Courses

**BMKI 9000 GRANT WRITING FOR THE BIOMEDICAL SCIENCES (3 credits)**

The purpose of this course is to introduce students to the scientific process and translate it to effective grant writing for biomedical sciences. Topics covered include hypotheses development, strong inference, how to write specific aims, how to generate ideas, federal grant processes with emphasis on National Institutes of Health, National Science Foundation and Veterans' Affairs, how to evaluate calls for grant applications, grant construction, and stylistic writing approaches. Students will compare and contrast successful and unsuccessful grant submissions.

**BMKI 9001 RESEARCH IN HEALTH & KINESIOLOGY (3 credits)**

The course introduces students to scientific writing, quantitative research design, and statistical methods. Considerable emphasis is placed on evaluation of research in scholarly publications. A research proposal in the form of a grant proposal is written as one of the course requirements.

Students will develop the skills necessary to analyze study designs in existing literature and create a research proposal. (Cross-listed with HEKI 8030).

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**BMKI 9010 PRINCIPLES AND PRACTICE OF BIOMEDICAL RESEARCH (3 credits)**

The purpose of this course is to introduce students to a variety of topics related to research practice that will allow them to be successful, independent scientists. Topics covered include manuscript writing and plagiarism, authorship, mentoring, research ethics, responsible conduct of research, presentation skills, research notebook keeping, scientific etiquette, and time and laboratory management.

**BMKI 9021 WEARABLE MATERIALS FOR BIOMECHANICAL PERFORMANCE II (3 credits)**

This course contains lecture and lab components focused on the design and characterization of wearable materials used in biomechanical and biomedical applications for protection against physical and chemical threats. Students will learn the classification, properties, evaluation methods, and design principles of wearable materials. (Cross-listed with BMCH 8020).

**Prerequisite(s):** BMCH 4010/BMCH 8016 (WEARABLE MATERIALS FOR BIOMECHANICAL PERFORMANCE I) or Department Permission

**BMKI 9031 BIOSTATISTICS IN BIOMECHANICS I (3 credits)**

The focus of the course is to prepare students to understand and apply research and biostatistical methods needed in the design and analysis of biomechanical investigations. The major topics to be covered include research design and multiple linear regression. (Cross-listed with BMCH 8030)

**Prerequisite(s):** Graduate Standing in Biomechanics program or Department Permission.

**BMKI 9040 BIOSTATISTICS IN BIOMECHANICS II (3 credits)**

The focus of the course is to prepare graduate students to understand and apply advanced research and biostatistical methods needed in the design and analysis of biomechanical investigations. The major topics to be covered include advanced research design and the general linear model. This course builds upon basic research design and linear regression learned in Biostatistics I for the application in single factor and multi-factor experimental analyses.

**Prerequisite(s):** Graduate Standing, BMCH 8030/BMKI 9031 or equivalent

**BMKI 9041 ADVANCED STATISTICS (3 credits)**

This course will be a study in the statistical methods commonly used in descriptive and experimental research in physical education and exercise science. Application, particularly regarding the purpose, selection, and interpretation of statistical procedures will be emphasized. (Cross-listed with KINS 8040).

**Prerequisite(s):** HPER 8030/HEKI 8030 or BMKI 9001/HPER 9031/HEKI 9031 or equivalent

**BMKI 9050 PHYSICAL ACTIVITY EPIDEMIOLOGY (3 credits)**

This course will cover the broad scope of the issues related to epidemiological methods that are relevant to the study of physical activity populations. It is intended to enhance students' ability to understand and apply epidemiological methods to physical activity related research.

**Prerequisite(s):** PE 8130/KINS 8130 and PE 8040/KINS 8040 or related course, or permission by the instructor. Not open to non-degree graduate students.



**BMKI 9101 NONLINEAR ANALYSIS FOR MOVEMENT STUDIES (3 credits)**

This course is to introduce different nonlinear methods for the analysis of biological and movement time series. Emphasis will be given on understanding the algorithms behind each nonlinear method. (Cross-listed with BMCH 8100).

**Prerequisite(s):** Instructor Permission

**BMKI 9131 IMPLEMENTING PHYSICAL ACTIVITY IN DIVERSE POPULATIONS (3 credits)**

This course will focus on information necessary to assess, design, implement, and evaluate the need for and effectiveness of physical activity interventions in diverse populations, races, and ethnicities. These populations will include: African American, Native American, Hispanic, Asian American, Pacific Islanders, and Caucasian. Additionally, candidates will complete a health and physical activity service learning project in which they will work with diverse populations in the community. (Cross-listed with KINS 8130).

**Prerequisite(s):** PE 3900/KINS 3900 or PE 8905/KINS 8905 or PE 8700/KINS 8700 or HED 8600/PHHB 8600.

**BMKI 9141 PHYSICAL ACTIVITY ASSESSMENT AND HEALTH RELATED RESEARCH (3 credits)**

This course will cover the broad scope of research on physical activity and public health. Emphasis will be placed on the application of physical activity assessment techniques. (Cross-listed with KINS 8140).

**BMKI 9201 MATLAB FOR MOVEMENT SCIENCES (3 credits)**

Introduction to Matlab software, plotting data, spectral analysis and the Fourier transform, data smoothing, and image analysis of movement related data. All topics will be implemented using Matlab. (Cross-listed with BMCH 8200).

**Prerequisite(s):** Instructor permission.

**BMKI 9221 METHODS IN CARDIOVASCULAR BIOMATERIALS RESEARCH (3 credits)**

This course contains lecture and lab components focused on cardiovascular biomaterial development and characterization methods used in academia and industry. The lecture component will provide the necessary clinical background of cardiovascular diseases and the theoretical background of cardiovascular biomaterials and state-of-the-art research methods. The lab component will provide practical experience focused on cardiovascular biomaterial design, manufacturing, and characterization methods. (Cross-listed with BMCH 8220).

**BMKI 9230 ADVANCED CARDIOVASCULAR BIOMECHANICS (3 credits)**

This course is a continuation of BMCH 4690/8696 Cardiovascular Biomechanics. It will introduce applied techniques to analyze cardiovascular biomechanics data and draw conclusions. It will provide graduate students majoring and concentrating in biomechanics and related disciplines to gain applied knowledge of cardiovascular biomechanics.

**Prerequisite(s):** BMCH 8696, BMCH 8676, Department Permission

**BMKI 9300 SYSTEMATIC REVIEW AND META-ANALYSIS (3 credits)**

This course is designed to introduce students to the process of completing systematic reviews and meta-analyses. The objective of the course is to provide students with a foundation of the requisite skills necessary to perform a quantitative and qualitative synthesis of the literature within their area of interest.

**Prerequisite(s):** HEKI 8030 or equivalent research methods course.

**BMKI 9301 STEM TEACHING METHODS FOR DEVICE DESIGN (3 credits)**

STEM Teaching in Biomechanics focuses on principles in teaching including teaching models (Problem-Based, Team-Based, Inquiry-Based teaching), student assessment, classroom logistics/organization, and device design through a mentorship project. (Cross-listed with BMCH 8300, STEM 8300).

**BMKI 9401 MOTOR LEARNING I (3 credits)**

Discussion and analysis of scientific principles related to the learning of motor skills; review related literature and research in motor learning. The focus of the course is on recent theories of how movements are acquired and performed, and on factors that have implications for motor learning throughout the life span. (Cross-listed with BMCH 8400).

**Prerequisite(s):** Department Permission.

**BMKI 9411 MOTOR CONTROL I (3 credits)**

The focus of the course is to explore the study of the conditions and factors that influence the control and performance of motor skills from both neurophysiological and psychobiological perspectives. (Cross-listed with BMCH 8410).

**Prerequisite(s):** Department Permission. Not open to non-degree graduate students.

**BMKI 9421 MOTOR DEVELOPMENT (3 credits)**

This course focuses on the study of motor development, the processes that underlie this development and the factors that influence it. Students will gain an understanding of the major theoretical perspectives of motor development across the life span with special emphasis given in child development. (Cross-listed with BMCH 8420).

**Prerequisite(s):** PE 2800 (Motor Behavior) or permission of instructor.

**BMKI 9451 ADVANCED BIOMECHANICS (3 credits)**

The course will address the biomechanical basis of human performance including mechanical analysis of human gait, fundamental movement patterns and techniques used for collecting biomechanical data. (Cross-listed with BMCH 8450).

**Prerequisite(s):** BMCH 4630 (Biomechanics) [previously PE 4630] or Instructor Permission.

**BMKI 9460 ADVANCED BIOMECHANICS II (3 credits)**

A comprehensive and advanced detailed investigation of the biomechanics of motor performance in special populations such as stroke, Parkinson's disease, and amputees. Includes advanced study of the mechanical analysis of motor skills and movement patterns and the research techniques for collecting and interpreting biomechanical data. Detailed lectures will cover etiology of such special populations with a focus on the endpoint movement disorders.

**Prerequisite(s):** BMCH 8450 or BKMI 9451/BMCH 9451 or Instructor Permission. Not open to non-degree graduate students.

**BMKI 9500 MOTOR LEARNING II (3 credits)**

The focus of the course is to further explore the study of the conditions and factors that influence the learning and performance of motor skills.

**Prerequisite(s):** BMCH 8400, BMKI 9401/BMCH 9401 or Instructor Permission. Not open to non-degree graduate students.

**BMKI 9510 MOTOR CONTROL II (3 credits)**

The focus of the course is to further explore the study of the conditions and factors that influence the control and performance of motor skills.

**Prerequisite(s):** BMCH 8410, BMKI 9411/BMCH 9411 or Department Permission. Not open to non-degree graduate students.

**BMKI 9520 MOTOR DEVELOPMENT II (3 credits)**

This course focuses on the study of motor development, the processes that underlie this development and the factors that influence it. This course will focus on exploring motor development in clinical populations of people with autism, down syndrome, cerebral palsy, etc. and the factors that influence the progression of motor skills.

**Prerequisite(s):** BMCH 8420 or permission from instructor.

**BMKI 9691 MATHEMATICS OF BIOMECHANICAL DATA PROCESSING (3 credits)**

Biomechanics is a rapidly changing and technologically dependent field of study. A thorough understanding of the factors influencing outcome measures is critical to correctly interpreting results. Students will be exposed to various data acquisition systems, approaches, and choices required to assess the computational aspects of biomechanical data critically. This course will equip students to complete independent processing from raw data to 3D joint angles and forces. (Cross-listed with BMCH 8690).

**Prerequisite(s):** Departmental Permission

**BMKI 9701 PSYCHOLOGY OF PHYSICAL ACTIVITY (3 credits)**

The central purpose of this course is to examine the psychological antecedents and consequences of exercise and physical activity behaviors. The course will focus on traditional theories/principles of psychology as they relate to various physical activity settings. (Cross-listed with KINS 8700).

**BMKI 9810 HIGHER EDUCATION TEACHING SEMINAR (3 credits)**

The seminar is designed to prepare students for entry into a higher education teaching career. This seminar requires doctoral students to teach an undergraduate or graduate lecture course relevant to their field of preparation. The seminar includes an examination of the roles, responsibilities, and privileges associated with teaching in higher education.

**Prerequisite(s):** Admittance to the UNO Doctoral Program in Biomechanics and Kinesiology and successful completion of 24 hours of doctoral coursework and approval from advisor. Not open to non-degree graduate students.

**BMKI 9820 SERVICE EXPERIENCE IN HIGHER EDUCATION (3 credits)**

This seminar will allow students the opportunity to gain valuable knowledge of the service expectations of faculty in higher education settings. The seminar will focus on service opportunities within the university, within the profession and within the community. Participants in the seminar will complete appropriate service activities.

**Prerequisite(s):** Admittance to the UNO Doctoral program in Biomechanics and Kinesiology, successful completion of 24 hours of doctoral coursework, and approval from advisor. Not open to non-degree graduate students.

**BMKI 9851 EXERCISE FOR SPECIAL POPULATIONS (3 credits)**

The course will examine the physiological and medical limitations imposed on people with various common chronic diseases/conditions including arthritis, osteoporosis, exercise-induced asthma, obesity, diabetes, hypertension and pregnancy. Special groups such as children and elders will be discussed. Content will emphasize the etiology and guidelines for exercise testing, prescription, and supervision. (Cross-listed with HEKI 8850).

**Prerequisite(s):** PE 4940/KINS 4940 or PE 8946/KINS 8946

**BMKI 9870 MUSCULOSKELETAL SIMULATION (3 credits)**

This course covers knowledge and skills needed to generate dynamic models, analyses, and simulations of the human musculoskeletal system for different types of movement. In this course, students build and analyze computer simulations implemented on common software platforms to gain insight into movement biomechanics and control. The materials covered in this course may be of interest to engineers, physical therapists, and biomedical researchers looking to apply their technical skills to solving clinical problems. This course emphasizes the technical skills necessary to conduct and analyze musculoskeletal simulations of movement.

**Prerequisite(s):** Department Permission.

**BMKI 9910 DOCTORAL SEMINAR (1-24 credits)**

The major goal of this course is to teach the graduate student how to write manuscripts/grants and be an effective academician with strong ethics. The outcome of this course is for the student to produce a manuscript based on data acquired in the laboratory from the ideas developed in the seminar or submit a grant that will support the research ideas developed in at least one semester. The material covered is intended to equip students with the skills necessary to be successful in their academic careers with emphasis given on writing scientific papers.

**Prerequisite(s):** Admission into the PhD program. Not open to non-degree graduate students.

**BMKI 9911 INDEPENDENT STUDY IN BIOMECHANICS (1-6 credits)**

This is a variable credit course designed for graduate students in Biomechanics who would benefit from independent reading assignments and problems. Independent study enables individual students or a small group of students to focus on topics typically not explored in other offerings or to explore topics currently offered in further depth. (Cross-listed with BMCH 8910).

**Prerequisite(s):** Graduate student in BMCH and approval by Faculty Advisor. Not open to non-degree graduate students.

**BMKI 9951 ADVANCED EXERCISE PHYSIOLOGY (3 credits)**

A detailed analysis of selected topics including acute and chronic effects of exercise on metabolic, pulmonary, and cardiovascular function; and sports nutrition. Current research findings and methodology will be emphasized. (Cross-listed with KINS 8950).

**Prerequisite(s):** PE 4940/KINS 4940 or equivalent

**BMKI 9960 ADVANCED EXERCISE PHYSIOLOGY II (3 credits)**

The focus of this course is a detailed analysis of the mechanisms responsible for acute and chronic responses to exercise at the cellular and molecular level. Current and historical research will be emphasized.

**Prerequisite(s):** PE 8950/KINS 8950 or BMKI 9951/PE 9951/KINS 9951. Not open to non-degree graduate students.

**BMKI 9971 TOPICS IN SPORTS MEDICINE (3 credits)**

This course is designed to help students synthesize and apply their knowledge of athletic training and sports medicine to current topics, unique populations, and other areas of exercise, sports medicine and health care. (Cross-listed with KINS 8970).

**BMKI 9990 DISSERTATION (1-15 credits)**

The course provides doctoral candidates in Biomechanics & Kinesiology with a process to complete a dissertation research plan. The course learning activities will focus on the completion of a candidate's dissertation. The course is designed to allow advanced doctoral candidates to demonstrate technical mastery of the discipline and to advance knowledge by completing an investigation.

**Prerequisite(s):** Admittance to UNO Doctoral Program in Biomechanics & Kinesiology, successful completion of doctoral coursework & comprehensive exams, dissertation supervisory committee chair approval & advancement to candidacy. Not open to non-degree graduate students.

## Black Studies (BLST)

### Black Studies Graduate Courses

**BLST 8036 AFRICANA RELIGIONS (3 credits)**

An introduction to religions in Africa and the diaspora, including African Traditional Religions, Christianity, Islam, and Afro-Caribbean religious traditions, using anthropological, historical, and other academic approaches to the study of religious and spiritual traditions. In particular, students will learn about the role of spirits, ancestors, witches, and other invisible agents in ideas and practices regarding health and healing. Finally, the class will examine the complex inter-relationships between religious ideas and practices and contemporary post-colonial political-economic realities, including the consequences of genocide and other human rights violations and the role of religious communities in social and economic development. (Cross-listed with RELI 8036, RELI 4030, BLST 4030).

**BLST 8110 GLOBAL SOCIAL ISSUES: CREATIVE AND CRITICAL ANALYSES (3 credits)**

This course focuses on global cultural and social forces and how they interact to form nexuses of both opportunity and obstacle to constructive human engagement on a wide array of social issues. An overview of topics covered in the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking. This course will provide students with the analytical tools, collaborative engagement skills, and applied problem-solving techniques that will help students succeed in this concentration and program. (Cross-listed with CACT 8110)

**Prerequisite(s):** Graduate standing.

**BLST 8126 BLACK WOMEN LEADERS IN LIBERATION MOVEMENTS (3 credits)**

This course studies scholarship on race, gender, and leadership with a specific focus on African and African descended women's roles in liberation movements in the U.S. and worldwide. Especial focus will be on the use of their personal narratives to analyze the wide range of ideas in the conception and execution of leadership. (Cross-listed with BLST 4120, WGST 4120).

**Prerequisite(s):** graduate standing or permission of instructor

**BLST 8156 AFRICAN AMERICAN PSYCHOLOGY (3 credits)**

African American Psychology traces the psychological history of Africans and African Americans from self-attributes and identity, through race and racism, to cognition, learning, and language. This course will review concepts relevant to understanding the psychology of African Americans, methodological and research issues, and best practices. (Cross-listed with BLST 4150, PSYC 4150, PSYC 8156).

**Prerequisite(s):** BLST 1000 and Junior standing or Instructor permission

**BLST 8216 THE HARLEM RENAISSANCE (3 credits)**

"The Harlem Renaissance" was the name given to the explosion in cultural, artistic, and social awareness that occurred primarily in Harlem, an area of New York City, between the end of World War I and the middle of the 1930s. This course will familiarize students with the general characteristics of African American literature produced during this period and its relation to African American literature and American literature writ large. The selected texts and writers will provide particular insight into the historical experiences of African Americans in the U.S. primarily between the two world wars and inform the subsequent cultural production of African Americans in later years. (Cross-listed with ENGL 8216, ENGL 4210, BLST 4210).

**BLST 8226 PAN AFRICANISM & BLACK LIBERATION (3 credits)**

The Pan-Africanism and Black Liberation course will expose students to the historical origins and development of Pan-Africanism, and the connection to global Black liberation movements. In this course, students will learn about the origin of Pan-Africanism, including major Pan-African leaders and historical events; the definitions of Pan-Africanism, Black Nationalism, Ethiopianism, and Negritude; and the commonalities and linkages between African continental and diasporic Pan-African liberation movements. Students will critically examine the differences between Pan-Africanism as an ideological, political, and cultural movement, and will explore the evolution of Pan-African ideology and philosophy in the 21st century. (Cross-listed with BLST 4220).

**Prerequisite(s):** BLST 1000, BLST 2410, or permission of instructor.

**BLST 8266 WOMEN OF COLOR WRITERS (3 credits)**

Women of Color Writers is designed to introduce graduate students to the multicultural, literary experience, creativity and contributions of women of color writers to contemporary world literature. (Cross-listed with BLST 4260)

**BLST 8356 THE BLACK ATLANTIC (3 credits)**

This course examines the cultural and ethnic history of Black people who comprised "The Black Atlantic." The course is organized historically and begins with a brief overview of the European slave trade on the West African Coast in the 15th century. From there, we look critically at the arrival of Africans to the New World, examine varieties of slavery and freedom in the Americas, and conclude with slave revolts and emancipation activism in the 18th and 19th century. We will use the Haitian Revolution (in which Haiti became the first country to be founded by formerly enslaved people) as a special case study, a conduit for our exploration of this socio-cultural, economic, and Diasporic space. (Cross-listed with BLST 4350, HIST 4080, HIST 8086).

**Prerequisite(s):** Graduate standing

**BLST 8476 SOUTH AFRICA & THE SOCIO POLITICS OF APARTHEID (3 credits)**

South Africa and the Socio Politics of Apartheid examines the lived experiences of South African people under the Apartheid system, and their long struggle against European colonial oppression and racial segregation throughout the 20th century. Students will examine the laws, tools, and strategies that developed and sustained Apartheid, and the anti-Apartheid movements and international pressure that led to its repeal and South African democratic elections. (Cross-listed with BLST 4470, PSCI 8476, PSCI 4470, SOC 8476, SOC 4470).

**Prerequisite(s):** Graduate standing

**BLST 8580 SEMINAR IN RESEARCH AND WRITINGS OF W.E.B. DUBOIS (3 credits)**

This course examines the life and writings of W.E.B. DuBois, who stands as the most eminent intellectual produced by people of African descent in the United States. Perhaps, next to Cheikh Anta Diop, DuBois is the most respected and honored African scholar of the 20th century. Within the context of Western traditions, DuBois is in the top category of prodigious intellectuals developed in the West. He is the father of modern American sociology, the founder of reconstruction history, the leader in urban analysis, the first serious student of inter-racial relations, as well as a novelist, poet, playwright, and essayist.

**BLST 8586 COMMUNICATING RACE, ETHNICITY & IDENTITY (3 credits)**

This is an undergraduate/graduate course that provides students with definitional and experiential knowledge about the origin of racial concepts, theories, and practices, definitions of ethnicity and identity, and the communicative relationship between race, ethnicity, and identity. (Cross-listed with BLST 4580, CMST 4580, CMST 8586)

**BLST 8596 AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of African-American popular music literature from c. 1900-present. The objective will be to provide the student with a broad overview with special attention given to musicians and individual works which typify a style or form. Listening assignments will be an integral part of the course, and attendance at live performances will supplement the lectures, discussions and readings. (Cross-listed with BLST 4590).

**BLST 8656 SLAVERY AND RACE RELATIONS IN THE AMERICAS (3 credits)**

Slavery and Race Relations in the Americas examines the historical relationship between the trans-Atlantic slave trade and American race relations, connecting the enslavement of Africans in the Americas to race relations in the Caribbean, Latin America, and the United States. (Cross-listed with BLST 4650, HIST 4070, HIST 8076, LLS 4650, LLS 8656).

**Prerequisite(s):** Graduate standing

**BLST 8716 BROWN V. BOARD OF EDUCATION (3 credits)**

Brown v. Board of Education traces the educational history of African Americans from segregation to desegregation to re-segregation. This course will review the legal cases before and after the Supreme Court's Brown decision, their aftermath, and the effects on educational policies and practices. (Cross-listed with BLST 4710, PSCI 8136, PSCI 4130).

**Prerequisite(s):** Graduate standing or instructor permission

**BLST 8756 CRITICAL QUANTITATIVE RESEARCH METHODS (3 credits)**

This online undergraduate/graduate course is a comprehensive source for foundational concepts in quantitative behavioral research. The course is designed to expose students to the role and importance of critical quantitative research of marginalized and underrepresented groups. Students will examine and gain definitional and empirical knowledge about conducting culturally relevant quantitative research and will learn both the logic behind and procedures for critical quantitative research, including research ethics, correlational and experimental designs, data collection, sampling, analysis, and reporting. (Cross-listed with BLST 4750).

**Prerequisite(s):** Graduate student or instructor permission

**BLST 8886 BLACK LEADERSHIP IN AMERICA (3 credits)**

Designed as a senior and graduate seminar, Black Leadership in America will examine the meaning and attributes of effective leadership strategies of African Americans, particularly as it relates to Black student leaders. The role of Black leadership will be explored using leadership and community theory, and will highlight the impact of Black culture within the broader American experience. (Cross-listed with BLST 4880).

**Prerequisite(s):** Senior or graduate student or instructor permission.

## Business Administration (BSAD)

### Business Administration Graduate Courses

**BSAD 8000 BUSINESS ETHICS: ACHIEVING SOCIAL RESPONSIBILITY (2 credits)**

This core MBA course will explore the relationship between law and ethics, will examine the generally-accepted theoretical principles associated with doing business ethically, and will examine practical ethical issues associated with various facets of business.

**Prerequisite(s):** BSAD 8060 or BSAD 8070 (prior to or concurrent) or admission to the MAcc program. Students with an undergraduate major or a graduate degree in Law may not include this course in a plan of study for the MBA degree. Not open to non-degree students

**BSAD 8026 RESEARCH METHODS IN ECONOMICS AND BUSINESS (3 credits)**

Covers the methodology of economics: choosing a research topic, literature search tools, data source identification, data summary techniques, basic statistical data analysis using statistical packages, and clear economics writing. The student will become familiar with these techniques through text materials, journal studies, and completion of an empirical economics paper.

**Prerequisite(s):** Graduate standing. Not open to nondegree students.

**BSAD 8030 INFORMATION TECHNOLOGY IN BUSINESS (3 credits)**

The premise of this course is that today's managers must learn to use information technology to create competitive firms, manage global corporations and provide useful products and services to customers. Accordingly, the content of this course is focused on use of information technology for competitive advantage. Students will develop case studies of firms who have achieved this objective. Furthermore, the course will address emerging technologies and their current and potential application.

**Prerequisite(s):** Completion of MBA foundation courses and BSAD 8060 (prior to or concurrent). Not open to nondegree students.

**BSAD 8040 BUSINESS AND INFORMATION TECHNOLOGY: CONNECTING PEOPLE AND INFORMATION (2 credits)**

The premise of this course is that today's managers must learn to use information technology to create competitive firms, manage global corporations and provide useful products and services to customers. Accordingly, the content of this course is focused on use of information technology for competitive advantage. Students will develop case studies of firms who have achieved this objective. Furthermore, the course will address emerging technologies and their current and potential application.

**Prerequisite(s):** BSAD 8060 or BSAD 8070 (prior to or concurrent).

Students with an undergraduate major or a graduate degree in management information systems may not include this course in a plan of study for the MBA degree. Not open to non-degree graduate students.

**BSAD 8060 PEOPLE: CULTIVATING SKILLS FOR LEADERSHIP (2 credits)**

This course will prepare students with the skills to effectively enact the critical leadership skills of listening, employee feedback and coaching, goal-setting, empowerment/delegation, influencing, interviewing, conflict, negotiation, intercultural awareness, team/group discussions, and business etiquette.

**Prerequisite(s):** Admission to the MBA program. Not open to non-degree graduate students.

**BSAD 8066 HEALTHCARE ANALYTICS FOR BUSINESS (3 credits)**

This course will focus on the mixing of analytics and technology to develop key performance indicators that integrate and evaluate clinical, administrative, and financial performance. Concepts in this course explore the intersection of information management, performance metrics, data visualization, and result communication spanning across the healthcare ecosystem. Topics covering health outcome analysis, financial performance, developing analytic strategies, data quality and governance, and the four stages of actionable intelligence are all used to educate the advantages of leveraging analytics. (Cross-listed with HLSC 8066, MGMT 8066, MGMT 4060, SCMT 8066, SCMT 4060).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8070 COACHING & DEVELOPING OTHERS (2 credits)**

Organizational leaders must effectively coach and develop others in order to ensure sustainable long-term organizational performance. Both through one-on-one feedback and coaching as well as through strategy-aligned organizational-level talent development programs, leaders establish the organization's culture of employee development and growth.

**Prerequisite(s):** Admission to Executive MBA Program or Executive Certificate in Business Leadership. Not open to non-degree graduate students.

**BSAD 8076 INTERNATIONAL LOGISTICS MANAGEMENT (3 credits)**

This course will focus on the logistics of international trade and how managers facilitate the flow of goods and services in import and export environments. Students will learn about infrastructure and business practices needed to manage international transportation, communications, services, and regulatory requirements. Students will develop an understanding of international terms of trade, transaction risk management, and location decisions for placement of warehouses and distribution centers. (Cross-listed with HLSC 8076, SCMT 4070, SCMT 8076).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8080 BUSINESS FORECASTING (3 credits)**

The course will cover forecasting tools and applications applied to business settings. The first half of the course will cover traditional Econometric forecasting methods and the second half of the course will focus on predictive analytics models and machine learning. Time in the computer lab will be focused on teaching students how to implement the models discussed in lectures. (Cross-listed with ECON 8310).

**Prerequisite(s):** ECON 8320 (or equivalent programming experience) or permission of instructor. Not open to non-degree graduate students.



**BSAD 8090 ESSENTIAL LEADERSHIP SKILLS (3 credits)**

This course will teach students the interpersonal skills necessary to effectively manage others. Second, this course will serve as a vehicle to assess the business content knowledge and computer literacy of incoming MBA students in order to provide customized remediation recommendations for each student. Third, the course will collect information that will be used for assessment and accreditation purposes to evaluate the effectiveness of the MBA program. This course will address the following MBA program themes: communication, change agent, teamwork, information technology, critical thinking and information gathering and analysis.

**Prerequisite(s):** Admission to the MBA program and completion of MBA foundation courses (or equivalent) or may be taken concurrently with the final foundation course. Not open to nondegree students.

**BSAD 8096 MANAGING COLLABORATIVE ENGAGEMENT (3 credits)**

This course will provide students with the opportunity to develop knowledge and strategies for leading teams, enhancing collaboration, building consensus, problem solving in teams, facilitating group processes, and designing collaborative workspaces. (Cross-listed with ACMP 4090, MGMT 4090, MGMT 8096, SCMT 4090).

**Prerequisite(s):** Admission to a graduate program at UNO or the STRATCOM Leader Fellow Program. Not open to non-degree graduate students.

**BSAD 8100 MANAGERIAL ECONOMICS (3 credits)**

The course will offer students tools of analysis drawn from consumer theory and the theory of the firm in order to improve the understanding of human behavior as it is constrained in the context of business decision-making. This course is intended for students who are seeking the degree of Master of Science in Economics or the degree of Master of Business Administration.

**Prerequisite(s):** ECON 2200 and 2220 or BSAD 8180 and BSAD 8060. BSAD 8060 may be taken prior to or concurrent. Not open to nondegree students.

**BSAD 8110 ACCOUNTING AND FINANCIAL FUNDAMENTALS (3 credits)**

The course is designed to give incoming graduate students the foundation in accounting that is necessary for subsequent graduate courses. Emphasis is on introducing the students to as many accounting concepts as possible.

**Prerequisite(s):** Graduate admission or permission of the appropriate graduate advisor. This course cannot be used in a plan of study for any graduate program at UNO. Not open to non-degree graduate students.

**BSAD 8136 HUMAN RESOURCE MANAGEMENT (3 credits)**

This course is a comprehensive review of the field of human resource management and its relevance to employees, managers, and organization stakeholders for goal achievement. The design of this course is structured to educate future managers and leaders on the importance of utilizing effective HR methods that comply with federal laws and the critical role of HR professionals in achieving the organization's positive workplace culture, competitive advantage, and overall success. (Cross-listed with MGMT 8136, MGMT 4030, HRM 8136, HRM 4030).

**Prerequisite(s):** BSAD 8250 (Organizational Behavior) is recommended (but not required) prior to enrollment.

**BSAD 8140 BUSINESS INTELLIGENCE ANALYSIS (2 credits)**

In BSAD 8440 you learned how to extract and manipulate data in a business intelligence tool. In this class you will learn to use this data to extract business knowledge. To do this, you will learn about the data model, methods of aggregation, and visualizations in the business intelligence (BI) software.

**Prerequisite(s):** Admission to the Executive MBA Program or the Executive Certificate in Business Analytics; Completion of BSAD 8440. Not open to non-degree graduate students.

**BSAD 8146 TOTAL REWARDS (3 credits)**

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee compensation and benefits programs. Students will gain and utilize effective strategies for managing the single largest controllable expense for organizations; employee pay and benefits. The design of this course is most beneficial for students pursuing future careers in management and human resource professions. (Cross-listed with MGMT 8146, MGMT 4010, HRM 4010, HRM 8146).

**Prerequisite(s):** BSAD 8136 is recommended but not required.

**BSAD 8150 ECONOMICS: ESSENTIAL CONCEPTS FOR MANAGERS (2 credits)**

This course exposes MBA students to fundamental economic concepts necessary for successful business planning and financial success. Topics include: Comparative advantage and international trade, market dynamics, the role that the competitive landscape plays in company decision-making, macroeconomic growth and development, and monetary and fiscal policy and their impact on business activity.

**Prerequisite(s):** BSAD 8060 or BSAD 8070 (prior to or concurrent). Students with an undergraduate major or a graduate degree in economics may not include this course on their plan of study for the MBA degree. Not open to non-degree graduate students.

**BSAD 8156 TALENT DEVELOPMENT (3 credits)**

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee training and development programs to optimize human capital effectiveness in modern organizations. The course is designed to enable future managers and human resource professionals to utilize effective strategies for assessing employee training needs and developing appropriate solutions to maximize talent utilization. (Cross-listed with MGMT 8156, MGMT 4120, HRM 4120, HRM 8156).

**Prerequisite(s):** BSAD 8136 is recommended but not required.

**BSAD 8160 INTERMEDIATE ANALYTICS (2 credits)**

Business Intelligence software tools are statistical in nature. Many of the visualizations/widgets use statistics "under the hood" to provide insights to you the user. Can you trust these insights? How are they calculated? When are they appropriate? In this class, you will learn the answers to these questions.

**Prerequisite(s):** Admission to the Executive MBA Program or the Executive Certificate in Business Analytics; Completion of BSAD 8140. Not open to non-degree graduate students.

**BSAD 8166 STAFFING THE ORGANIZATION (3 credits)**

This course is a comprehensive review of issues and techniques involved in the acquisition and management of a high quality and diverse workforce for optimal organizational effectiveness. Students pursuing future manager and human resource professions will benefit from practice utilizing effective strategies for recruiting, selecting, placing, and integrating new employees into an organization's workforce. (Cross-listed with MGMT 8166, MGMT 4110, HRM 4110, HRM 8166).

**Prerequisite(s):** BSAD 8136 is recommended but not required.

**BSAD 8176 EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT (3 credits)**

This course will focus on trends influencing supply chain management and design in the 21st century. Key concepts in this course will include contemporary opportunities and challenges in creating customer value via the supply chain with a focus on globalization and risk management. Specific topics will include the influence of the empowered customer on supply chain design, global supply chain trends, and the need for integration of technology and talent to create a competitive advantage. (Cross-listed with HLSC 8176, SCMT 4170, SCMT 8176).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.



**BSAD 8190 APPLICATIONS IN ANALYTICS (2 credits)**

What is a 'business question' and how do you answer it with data? In this class you will learn to form testable business questions. This course will build on the knowledge you gained in BSAD 8440, BSAD 8140, and BSAD 8160 to answer your business questions with the help of business intelligence software.

**Prerequisite(s):** Admission to the Executive MBA Program or the Executive Certificate in Business Analytics; Completion of BSAD 8160. Not open to non-degree graduate students.

**BSAD 8200 MANAGERIAL ACCOUNTING (3 credits)**

A study of concepts, analysis and procedures of accounting utilizing internal financial and non-financial data which provides management with information for planning and controlling routine operations, for non-routine decisions, policy-making and long-range planning; and for external reporting to stockholders, governments and interested parties.

**Prerequisite(s):** ACCT 2010 and 2020 or BSAD 8110, and BSAD 8060. BSAD 8060 may be taken prior to or concurrent. Not open to nondegree students.

**BSAD 8206 CONSULTATIVE SELLING PRINCIPLES (3 credits)**

The primary focus of the Consultative Selling Principles course is to develop the behaviors, methodologies, principles, and processes required to successfully lead and manage complex selling initiatives to a win-win close. The course examines and applies, through role playing and other activities, the critical relationship building, critical thinking, problem solving, listening and negotiating capabilities which are the foundation skills underlying consultative selling. (Cross-listed with MKT 4200)

**Prerequisite(s):** MKT 3310 with 'C+' or better; MKT 3100 with C+ or better; GPA of 2.5 or better; or permission of instructor. Not open to non-degree graduate students.

**BSAD 8210 ACCOUNTING: DECISIONS & CONSEQUENCES (2 credits)**

Managers and administrators must be able to understand, analyze, and use accounting information to make operational and strategic business decisions. In this course, we will study practical uses of accounting information to address the problems and decisions managers face in business. Emphasis is placed on the user of accounting information rather than the preparer. Upon completion of this course, a student should be able to use accounting information to make management decisions, understand how accounting rules inform those decisions, and consequently, how those decisions affect a company's financial reports.

**Prerequisite(s):** BSAD 8060 or BSAD 8070 (prior to or concurrent). Students with an undergraduate major or graduate degree in accounting may not include this course on their plan of study for the MBA degree. Not open to non-degree graduate students.

**BSAD 8216 SELLING FINANCIAL SERVICES (3 credits)**

Selling Financial Services concentrates on methods to effectively sell services and products in the financial services industry, including the banking, brokerage and insurance sectors. Targeting, initiating, and acquiring client relationships, expanding business opportunities, and maintaining long-term client relationships are the course's focal points. This integrative course is designed to provide students with a basic understanding of the selling profession and sales culture within the financial services industry. (Cross-listed with MKT 4210, FNBK 4210).

**Prerequisite(s):** Not open to non-degree graduate students.

**BSAD 8220 ADVANCED APPLICATIONS IN ANALYTICS (2 credits)**

Using the knowledge gained in BSAD 8440, BSAD 8140, BSAD 8160, and BSAD 8190, each student in this course will work individually to apply the entire business analytics process (starting with data collection and ending with using results to make informed decisions) to a real problem in their own organization.

**Prerequisite(s):** Admission to the Executive MBA Program or the Executive Certificate in Business Analytics; Completion of BSAD 8190. Not open to non-degree graduate students.

**BSAD 8226 GLOBAL STRATEGIC ACCOUNT MANAGEMENT (3 credits)**

Throughout this course, the management of strategic account programs at national, multi-country, and global levels will be addressed. The primary focus of the curriculum is on the critical success factors for driving revenue, sustainable long term-growth and profitability with a base of core strategic buyers.

**Prerequisite(s):** Senior or graduate student standing and permission of the instructor. Not open to non-degree graduate students.

**BSAD 8230 LEADING CHANGE & INNOVATION (2 credits)**

This course focuses on providing leaders with the knowledge and ability to lead organizational change and enhance organizational innovation. Topics include organizational culture, organizational design, and organizational processes (including reward systems).

**Prerequisite(s):** Admission to the Executive MBA program or Executive Certificate in Business Leadership. Not open to non-degree graduate students.

**BSAD 8236 GLOBAL BUSINESS MANAGEMENT (3 credits)**

The central objective of this course is to explore the unique opportunities and challenges that confront international managers as they navigate the complex and ever-changing global economic, political, legal, technological, and cultural environment. This course will particularly focus on people, values, and culture, better equipping students to both undertake an international career as well as effectively lead organizations with a culturally diverse workforce in any environment. (Cross-listed with MGMT 4150, MGMT 8236).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8240 EFFECTIVE LEADERSHIP OF PEOPLE (2 credits)**

This course aims to enhance the leadership effectiveness of students by developing knowledge of what constitutes effective leadership and how to apply leadership concepts and models.

**Prerequisite(s):** Admission to the Executive MBA program or Executive Certificate in Business. Not open to non-degree graduate students.

**BSAD 8250 ORGANIZATIONAL BEHAVIOR: ENHANCING HUMAN & ORGANIZATIONAL CAPABILITIES (2 credits)**

This course will prepare students with the knowledge necessary to manage and lead organizations effectively. Students will learn management theories, understand important research findings in organizational behavior, and apply both theory and research results to real organizational situations, thus giving them the capacity to use OB theories to enhance organizational effectiveness.

**Prerequisite(s):** BSAD 8060 or BSAD 8070 (prior to or concurrent). Students with an undergraduate major or a graduate degree in management may not include this course on their plan of study for the MBA degree. Not open to non-degree graduate students.

**BSAD 8256 NEW VENTURE FORMATION (3 credits)**

This course provides hands-on experience in assessing industries, customers, and competitors for a potential new business venture. Students will create a business plan for a business venture idea that includes distinctive new products and services, a venture strategy, a venture financing plan, and a compelling investor pitch. (Cross-listed with ENTR 4730).

**Prerequisite(s):** Admission to the MBA program

**BSAD 8260 EFFECTIVE USE & REPORTING OF ACCOUNTING INFORMATION (2 credits)**

This course focuses on the use and reporting of accounting information, with an emphasis on financial statements and how executive decisions can influence these statements. Financial statements, including footnotes and explanatory material, are the primary instruments utilized by parties external to the enterprise in making judgments about the enterprise. By understanding how management decisions are reflected in the financial statements, managers will understand how they can influence their judgment.

**Prerequisite(s):** Admission to the Executive MBA program or the Executive Certificate in Business Leadership. Not open to non-degree graduate students.

**BSAD 8266 TECHNICAL BUSINESS DEVELOPMENT (3 credits)**

Students will learn how to navigate the four main milestones of the technical sales process: Responding to requests for proposals (RFPs), conducting exploratory customer meetings, submitting RFP responses, and interviewing for projects. The course will broaden understanding of the sales process in technical domains where sales cycles are longer and decision processes are more complex. This class will also emphasize team selling. (Cross-listed with MKT 4260, MKT 8266).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8280 EMPLOYEE RECRUITMENT, ENGAGEMENT, AND RETENTION (2 credits)**

Effective recruitment, engagement, and retention of highly motivated and high performing employees is critical for organizational success. This course will address the key organizational characteristics that must be in place for this to occur.

**Prerequisite(s):** Admission to the Executive MBA program or the Executive Certificate in Business Leadership.

**BSAD 8300 ORGANIZATION THEORY & DESIGN (3 credits)**

This course is designed to increase students' understanding and knowledge of how organizations are designed and structured in order to create value and competitive advantage, and how organizations can operate in an effective and efficient manner in an ever-changing environment. The course will address topics such as: organizational effectiveness, organizational structure, organizational design, organizational culture, organizational technology, the external environment, organizational change, and the organizational life cycle. The ultimate goal is for students to be able to understand how organizations should be structured as a result of both external and internal factors. (Cross-listed with MGMT 8300).

**Prerequisite(s):** Graduate. Not open to non-degree graduate students.

**BSAD 8310 MANAGING PERFORMANCE IN ORGANIZATIONS (3 credits)**

A human behavior course emphasizing the areas of individual behavior, interpersonal behavior, group behavior and the interplay of human and non-human factors.

**Prerequisite(s):** Essential Leadership Skills (BSAD 8060) or admission to the MAcc program. Not open to nondegree students.

**BSAD 8326 SALES MANAGEMENT (3 credits)**

The student will be exposed to current research findings in sales management and to business cases and simulations where sales management theories and concepts will be applied. This course will prepare students to develop and implement specific compensation, motivation, and evaluation strategies for managing sales professionals across a wide variety of organizations. (Cross-listed with MKT 4320.)

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8330 LEADING TEAMS (2 credits)**

This course focuses on building and leading high-performing teams in organizations. Topics include how to evaluate team effectiveness, how to create and develop teams that are cohesive and high-performing, how to lead and facilitate teams, and how to diagnose and intervene when teams are experiencing problems.

**Prerequisite(s):** Admission to the Executive MBA program or Executive Certificate in Business Leadership. Not open to non-degree graduate students.

**BSAD 8336 PROJECT MANAGEMENT (3 credits)**

This course focuses on the systemic exploration of planning and executing complex projects to create organizational success. Using a comprehensive understanding of principles, methodologies, and tools within project management, students will learn how to initiate critical processes, plan objectives and constraints, execute management and leadership, monitor budgets and development, and close outcomes of complex projects. Skills obtained from this course enhance individuals' ability to recognize, identify, and prioritize organizations' culture and structure to lead projects across various industries efficiently. (Cross-listed with HLSC 8336, MGMT 8336, MGMT 4330, SCMT 4330, SCMT 8336)

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8340 INTERNATIONAL BUSINESS STUDY ABROAD (3 credits)**

This course provides students with an international business and cultural experience through a study tour in a selected international location. Students will develop an understanding of the factors that affect international business decisions by visiting American companies operating abroad and foreign companies that export goods and services to the U.S.

**Prerequisite(s):** Instructor Permission.

**BSAD 8345 CONSUMER BEHAVIOR (3 credits)**

Consumers purchase, use, experience, and dispose of products and services as part of their consumption process. How and why consumers choose various brand options, form judgments about these brands, and decide which options to buy and/or re-buy are essential knowledge for marketing professionals. The course covers the psychological and social issues that guide consumption decisions. (Cross-listed with MKT 3320).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**BSAD 8356 GLOBAL SOURCING AND INNOVATION (3 credits)**

This course focuses on global suppliers as partners in the development and commercialization of new products. Students will learn about open innovation and the integration of internal and external business systems in new product innovation. Students will develop an understanding of regulatory policies related to information sharing and the intellectual property rights of buyers and suppliers. (Cross-listed with HLSC 8356, SCMT 4350, SCMT 8356).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8360 EFFECTIVE MANAGEMENT OF CAPITAL STRUCTURE, CASH, & RISK (2 credits)**

Students will develop strategic decision making skills by using financial concepts including time value of money, capital budgeting processes, cash flow forecasting and project risk analysis. Topics covered include: capital budgeting, financial statement analysis, capital structure, financial risk analysis.

**Prerequisite(s):** Admission to the Executive MBA program or Executive Certificate in Business. Not open to non-degree graduate students.

**BSAD 8366 E-MARKETING (3 credits)**

This course focuses on utilizing the Internet as a marketing platform. Course content includes discussion of how the Internet is used by businesses for designing products, pricing, promotions, distribution, positioning, gathering information, and cultivating relationships with stakeholders. The discussion about the rise of social media, sharing economy, virtual reality devices, and other relevant trends will also be part of the course. (Cross-listed with MKT 4360).

**Prerequisite(s):** BSAD 8400 with a grade of 'B' or above. Not open to non-degree graduate students.

**BSAD 8370 TALENT MANAGEMENT LEADERSHIP (2 credits)**

This course will focus on how leaders can proactively and comprehensively enhance organizational effectiveness through maximizing employee engagement, retention strategies and high performance teams using people-focused practices across the entire organization.

**Prerequisite(s):** Admission to the Executive MBA Program or the Executive Certificate in Business Leadership. Not open to non-degree graduate students.

**BSAD 8376 SUPPLY CHAIN ANALYTICS (3 credits)**

This course focuses on integrating supply chain management through the use of key performance indicators. Key concepts in this course include data visualization, supplier performance metrics, service-dominant logic, and the supply chain for data. Specific topics include the influence of the empowered customer on supply chain metrics, using metrics to develop a competitive advantage, data-driven decision making, and the four stages of actionable intelligence. (Cross-listed with HLSC 8376, SCMT 4370, SCMT 8376).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8380 EFFECTIVE SYSTEMS, OPERATIONS, AND IT (2 credits)**

Students will learn how to employ decision-making skills to create a long-term competitive advantage for an organization through operational and technical excellence. Key concepts in this course will include developing a view of organizations as technical and behavioral systems, operations management, quality management, strategies related to IT procurement, deployment, maintenance and security, and the supply chain. Specific topics will include applied systems theory, process improvement, quality assurance, supply chain management, IT systems development strategies, and issues related to systems security, data security, and data privacy.

**Prerequisite(s):** Admission to the Executive MBA program or the Executive Certificate in Business

**BSAD 8386 INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT (3 credits)**

This course will focus on the strategic procurement of products and services in order to gain a competitive advantage through integrated supply management. Students will learn about strategic supply management, contract negotiation, and supplier quality management. Students will develop an understanding of supplier performance management through the use of supply chain information systems. (Cross-listed with HLSC 8386, MKT 4380, SCMT 4380, SCMT 8386).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8396 MARKETING ANALYTICS (3 credits)**

This course focuses on the application of data analytics in marketing decision making (e.g., segmentation, sales forecasting, and resource allocation). Students will learn to apply statistics and econometrics to solve marketing problems. Key topics in this course include marketing data visualization, marketing metrics, descriptive and predictive analytics, and digital marketing analytics. This course takes a very hands-on approach with real-world databases and equips students with tools that can be used immediately on the job. (Cross-listed with MKT 4370).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8400 MARKETING POLICIES (3 credits)**

This course provides an introduction to the fundamental concepts of marketing, including a customer orientation, matched with attention to competition and core strengths. The course will illustrate strategies and principles that will help you understand how marketing managers, product managers or service managers must think through their situations, determine their goals and lay a course to achieve those goals.

**Prerequisite(s):** Completion of MBA foundation courses and BSAD 8060 (prior to or concurrent); or admission to MAcc program. Not open to nondegree students.

**BSAD 8420 MARKETING: UNDERSTANDING CONSUMERS AND MARKETS (2 credits)**

This course exposes MBA students to the fundamental concepts, practices and issues of marketing. A wide range of marketing practices and structures will be explored including product and service firms, consumer and business markets, profit and not-for-profit organizations, domestic and global companies, and small and large businesses.

**Prerequisite(s):** BSAD 8060 or BSAD 8070 (prior to or concurrent). Students with an undergraduate major or a graduate degree in marketing may not include this course on their plan of study for the MBA degree. Not open to non-degree graduate students.

**BSAD 8426 BUSINESS DEMOGRAPHICS (3 credits)**

The goal of this course is to develop a demographic perspective in order to assist in understanding the business environment and business policy. How population change impacts consumer markets and all of the functions (for example, accounting, finance and management) that must exist for these markets to perform. Includes a history of population change and policy as well as a view toward international population considerations. (Cross-listed with MKT 4420).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8430 STRATEGIC BRAND MANAGEMENT (3 credits)**

An exploration of the characteristics, meanings, and management of brands in the business world. The course examines brands as a strategic asset, and draws on managerial, consumer, and cultural perspectives.

**Prerequisite(s):** BSAD 8420 or permission of instructor. Not open to nondegree students.

**BSAD 8435 MARKETING INNOVATION (3 credits)**

Product, service, and process innovation are essential drivers of firm performance. However, firms face considerable and complex challenges when bringing innovative ideas to life. For example, what marketing research methods should we employ to uncover vital consumer insights? How do these insights influence the development and launch of new products and services? What differentiated value are we delivering to our consumers? How do we successfully bring this new product or service to market? How does a brand's purpose and personality influence consumers' perceptions, purchase decisions, adoption, and engagement? This course will cover key marketing principles involved in the development and launch of new and innovative products and services - from conception to commercialization. Furthermore, we will explore how new-age technologies impact each stage of the development and launch processes. (Cross-listed with MKT 3400).

**Prerequisite(s):** BSAD 8420 or equivalent; and admission to Graduate College, MBA Program or by permission of the instructor.

**BSAD 8436 LEARNING TO LEAD (3 credits)**

The course provides students with the opportunity to learn historical and modern theories of effective leadership, gain insight into their own leadership styles and aspirations, and learn how to apply leadership theories to real-world leadership cases. Along with empowering individuals' leadership capabilities, this course explores the factors that can influence leader decision-making. (Cross-listed with MGMT 4230, MGMT 8436).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8440 BUSINESS INTELLIGENCE DATA EXPLORATION (2 credits)**

The first in any analytics project is to get data ready for analysis. In this class you will learn to extract data from a business data source and ready it for analysis in a business intelligence software tool. In the process you will learn tools necessary for this process including SQL, Power Query, M, and DAX.

**Prerequisite(s):** Admission to the Executive MBA Program or the Executive Certificate in Business Analytics. Not open to non-degree graduate students.

**BSAD 8446 QUALITY MANAGEMENT (3 credits)**

This course approaches Quality Management from a practical quantitative-oriented point of view. Throughout this course, students will be introduced to all five steps of the six sigma continuous process improvement (Define, Measure, Analyze, Implement, and Control). The assignments are designed in project-based formats, in which students will initiate their own process improvement project and follow through with each step for a final grade. Upon the completion of this course, students will understand the ever-evolving nature of quality and quality management. They will also have practical experience in initiating and managing process improvement project at small scale and apply six sigma in their future work. (Cross-listed with MGMT 4440, SCMT 4440).

**Prerequisite(s):** BSAD 2130 (Business Statistics) or equivalent, admission to the MBA or Masters of Healthcare Logistics and Supply Chain Management program, or permission of instructor

**BSAD 8450 SEMINAR IN MARKETING (3 credits)**

Exploration, study and critical analysis of contemporary marketing problems, trends, methods and approaches for seminar discussion and written report.

**Prerequisite(s):** Graduate. Not open to nondegree students.

**BSAD 8456 MANAGERIAL NEGOTIATION STRATEGIES (3 credits)**

This course introduces students to the theory and practice of negotiation across various organizational settings. The ability to successfully negotiate an outcome is an important aspect of management and leadership. Negotiation can be used to determine multiparty relationships, manage conflict resolution, and improve organizational outcomes. Using a combination of conceptual frameworks, roleplaying exercises, and debriefing opportunities, the design of this course is structured to help students understand the power and influence negotiation has over the successful outcomes of managers, leaders, and organizations. (Cross-listed with HLSC 8456, MGMT 4450, MGMT 8456, SCMT 4450, SCMT 8456).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor.

**BSAD 8476 BEHAVIORAL FINANCE & INVESTING (3 credits)**

This course focuses on how actual investor behaviors and market behaviors differ from traditional theories of finance. This course will examine psychological biases, identify how such biases influence financial markets and settings, and explore methods that can be utilized to recognize and overcome such behavioral pitfalls. (Cross-listed with FNBK 4470).

**Prerequisite(s):** Admission to graduate college, MBA program, or by permission of instructor. Not open to non-degree graduate students.

**BSAD 8480 BUSINESS ECONOMICS AND CORPORATE STRATEGY (2 credits)**

Using Porter's famous "Five Forces" stakeholder framework, students taking this course learn both how successful business executives can apply economic analysis to inform business strategy from both an internal operations and external stakeholder perspective. Internal operations involve the managing labor, equipment, and materials acquisition from suppliers in cost effective ways. External stakeholder perspectives involve consideration of a company's domestic and global industry structure, behavior of its competitors, consumer behavior, as well as broader community influences.

**Prerequisite(s):** Admission to the Executive MBA Program or the Executive Certificate in Business.

**BSAD 8516 SECURITY ANALYSIS & INVESTING (3 credits)**

Study of the US securities and investment markets, to include understanding of the efficient market, fundamental and technical analysis approaches for the valuation of marketable securities, and risk and return within a portfolio. Analysis ranges from considering the economy, industry groups, and individual corporations when selecting securities to investigating various investment products appropriate for individuals. (Cross-listed with FNBK 4310).

**Prerequisite(s):** Graduate admissions

**BSAD 8520 SEMINAR INVESTMENT MANAGEMENT (3 credits)**

This course focuses upon the modern portfolio theory of investment management and its application in formulation of policies for individuals and institutional investors. Topics addressed will include qualitative and quantitative analysis of the risks and returns of portfolio management using efficient market, fundamental analysis, and technical analysis approaches.

**Prerequisite(s):** BSAD 8510. Not open to nondegree students.

**BSAD 8530 BANK & FINANCIAL MARKETS (3 credits)**

This course focuses on the theory and practice in managing commercial banks. Topics covered include but not limited to: bank regulations, bank performance analysis, asset liability management, credit analysis and consumer loans. The course emphasizes the link between theory and practice through assigned course related readings, guest lecturers from industry experts, and a comprehensive bank research project on a local bank of your choice. At the end of the course, students should have a good understanding of basic banking theories as well as banking practices, and current issues and challenges facing the banking industry.

**Prerequisite(s):** BSAD 8500. Not open to non-degree graduate students.

**BSAD 8540 MULTINATIONAL FINANCIAL MANAGEMENT (3 credits)**

The focus of this course is on multinational financial management as viewed and practiced by the multinational firm and on current developments in international financial markets, including global banking. Familiarity with certain areas of the firm's environment, such as the international monetary system, the European Monetary System, and determination of exchange rates under alternative regimes, is essential to the international financial manager.

**BSAD 8550 SEMINAR IN FINANCE (3 credits)**

This course will address specific financial management topics which will vary by semester and is intended for graduate students.

**BSAD 8560 MARKETING STRATEGY: CUSTOMERS AND MARKETS (2 credits)**

This course will focus on how successful businesses match their objectives and resources with opportunities in the marketplace by identifying and measuring consumer needs, determining target markets and deciding which products and services to offer. This course will also address pricing, promotion, and distribution strategies to create competitive advantage in domestic and international markets.

**Prerequisite(s):** Admission to the Executive MBA program or the Executive Certificate in Business. Not open to non-degree graduate students.

**BSAD 8570 EFFECTIVE STRATEGIC MANAGEMENT (2 credits)**

This course centers around the theme that a company achieves sustained success if and only if its managers (1) develop, and revise as needed, an action-oriented strategic plan and (2) implement and execute the plan with some proficiency. Students will develop the strategic thinking skills needed to formulate and execute successful strategies for firms/organizations in a variety of industries and dynamic environments. Emphasis is given to the contributions of several business disciplines of study, such as marketing, finance and management, to understanding both the internal operations of the organization and the influences of the external environment. This course is integrative and introduces both the theory and practice that enables that integrative process.

**Prerequisite(s):** Admission to the Executive MBA program or the Executive Certificate in Business. Not open to non-degree graduate students.



**BSAD 8576 INVESTMENT MANAGEMENT FOR FINANCIAL ANALYSTS (3 credits)**

This course provides critical knowledge needed for students pursuing a career in investment management. The topic areas bridge academic theory, current industry practice, and ethical and professional standards and comprehensively address the areas assessed in the Chartered Financial Analyst examinations. (Cross-listed with FNBK 4570)

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**BSAD 8590 EXECUTIVE MBA CAPSTONE PROJECT (4 credits)**

Students in the Executive MBA capstone project course will complete an applied consulting project for an organization that requires them to integrate knowledge across multiple Executive MBA program knowledge areas. Students will identify the key problem(s) to be solved, use sound methodologies to gather necessary data, identify and employ relevant evidence-based research and practitioner literatures, apply relevant models and theories to guide the generation of potential solutions and implementation strategies, and identify the feasibility and financial implications of their proposed solution(s).

**Prerequisite(s):** Admission to the Executive MBA Program. Not open to non-degree graduate students.

**BSAD 8596 INSURANCE PLANNING (3 credits)**

An analysis of risk management techniques for handling the risk exposures most businesses face, including insurance, self insurance, risk control and risk avoidance, among others. (Cross-listed with FNBK 4590).

**BSAD 8600 REAL ESTATE FINANCE THEORY AND APPLICATIONS (3 credits)**

This course explores advanced financial analysis tools and methodologies used to quantify complex factors surrounding real estate productivity, value, investment, and project feasibility. Specific course topics will coincide with student interest in one of three focus areas: Investment, Development, or Commercial Finance.

**Prerequisite(s):** RELU 3410 and BSAD 8630, or permission of Real Estate Program Director.

**BSAD 8605 REAL ESTATE PRINCIPLES AND PRACTICES (3 credits)**

This is a survey course in real estate principles and practices, which is designed to familiarize students with industry terminology, current practices, and cover the following topics: Licensure, property rights, legal descriptions, real estate law and contracts, appraisal, financing, investments, Fair Housing, and related topic areas. This course provides foundational knowledge of the real estate field and will prepare students to successfully complete more advanced real estate coursework. NOTE: Students cannot receive credit for both RELU 2410 and RELU 3410. (Cross-listed with RELU 3410).

**Prerequisite(s):** Admission to Graduate College, MBA Program, or permission of Real Estate Program Director.

**BSAD 8606 FINANCIAL RISK MANAGEMENT (3 credits)**

The course provides students with an intermediate level analysis of financial derivatives, and the use of these instruments for managing risk in financial institutions. (Cross-listed with FNBK 4600.)

**Prerequisite(s):** BSAD 8500 and 8510 or their equivalent, and graduate standing. Not open to nondegree students.

**BSAD 8610 REAL ESTATE APPRAISAL (3 credits)**

This course addresses the fundamentals of real estate valuation and appraising, including factors affecting value, valuing land, improvements, and special classes of residential property, appraisal practice and rules, depreciation and obsolescence, and the mathematics of appraising.

**Prerequisite(s):** RELU 3410 and BSAD 8630, or permission of instructor.

**BSAD 8616 REAL ESTATE INVESTMENTS (3 credits)**

This course focuses on methods used to analyze existing and proposed commercial and residential real estate investments through dynamic programming models, and explores strategies to finance commercial real estate. The class ultimately prepares students to understand the risks and rewards associated with financing and investing in real estate. (Cross-listed with RELU 4390).

**Prerequisite(s):** RELU 2410 or RELU 3410 or FNBK 3250 or BSAD 8605 or BSAD 8630

**BSAD 8625 PROPERTY MANAGEMENT (3 credits)**

This course focuses on commercial and residential property management concepts and their application to the operation, control, and oversight of real property. The course will study leasing, tenant selection and relations, maintenance, marketing, contract management, asset management principles, as well as Fair Housing Laws and the Americans With Disabilities Act as they pertain to property management. (Cross-listed with RELU 3450).

**Prerequisite(s):** BSAD 8605, or permission of the Real Estate Program Director.

**BSAD 8626 REAL ESTATE DEVELOPMENT (3 credits)**

This course focuses on the procedures and complexities in developing and redeveloping various commercial property types and mixed-use real estate. Topics include an overview of the real estate development process, assembling a team, identifying project stakeholders, financial analysis, site selection, market analysis, and the regulatory environment. (Cross-listed with RELU 4440).

**Prerequisite(s):** BSAD 8605 or BSAD 8630, or permission of the Real Estate Program Director.

**BSAD 8630 FINANCE: UNDERSTANDING CAPITAL AND CASH (2 credits)**

As a comprehensive introduction to financial management, the course will cover various fields of finance and discuss topics including the time value of money, bond and stock valuation, capital budgeting.

**Prerequisite(s):** BSAD 8060 or BSAD 8070, 8150 and 8210. Students with an undergraduate major or a graduate degree in finance or accounting may not include this course on their plan of study for the MBA degree. Not open to non-degree graduate students.

**BSAD 8640 IT: STRATEGIC DEVELOPMENT AND DEPLOYMENT (1 credit)**

Students will gain a strategic perspective of information technology management, including current trends and best practices, and understand how technology can be used in competitive positioning. Processes for innovation and research and development spending and new business models will be covered.

**BSAD 8650 VISION & STRATEGIC LEADERSHIP (2 credits)**

This course focuses on the critical role that organizational leaders play in ensuring that the organization has a clear vision and a clear mission which are in alignment with the organization's business strategy and unit goals and effectiveness metrics. This course focuses on the mission and vision creation and communication process as well as vertical and horizontal goal alignment.

**Prerequisite(s):** Admission to the Executive MBA program or the Executive Certificate in Business Leadership. Not open to non-degree graduate students.

**BSAD 8660 FRONTIERS OF ANALYTICS (2 credits)**

In this program, you have learned many analytics techniques. However, analytics is a constantly evolving field with increasingly advanced methods. What techniques might be presented to you as a manager? How do you interpret these results? In this class we will explore cutting-edge analytics methods and when they are appropriate for your business.

**Prerequisite(s):** Admission to the Executive MBA Program or the Executive Certificate in Business Analytics; Completion of BSAD 8160. Not open to non-degree graduate students.



**BSAD 8680 SUPPLY CHAIN INTEGRATION (3 credits)**

This course will focus on the integration of internal and external systems designed to maximize the efficiency and effectiveness of supply chain networks developed by industrial organizations, government agencies, and not-for-profit organizations. Key concepts will include supply chain design, trends in technology, and cross-functional collaboration, coordination, and communication along the value chain. Specific topics will include the influence of empowered customers on supply chain integration, global supply chain trends, closed-loop supply chains, and the challenges and benefits of integrating technology and talent in the workplace. Students enrolled in the Master's in Healthcare Logistics and Supply Chain Management program should consult with their advisor about this course satisfying that degree's capstone requirement. (Cross-listed with HLSC 8680, SCMT 8680).

**Prerequisite(s):** Admission to Graduate College, MBA Program, or instructor permission. Students in the Master's of Healthcare Logistics and Supply Chain Management must complete this course in the last nine hours of the program. Not open to non-degree graduate students.

**BSAD 8696 EMERGING TECHNOLOGY AND INNOVATION (3 credits)**

This course equips entrepreneurially-minded students with a more complete range and vision of the viability of various startup opportunities (with a specific focus on innovative technologies and innovative business models). Students will become familiarized with the new and emerging technologies and innovations that define modern industries and product categories, as well as the various shifts in the way cutting-edge business gets done, regardless of industry. (Cross-listed with ENTR 4690, ENTR 8696, MGMT 4690, MGMT 8696).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**BSAD 8700 BUSINESS ANALYTICS: MAKING SENSE OF DATA (2 credits)**

The purpose of this course is to provide business managers with an understanding of the important role data analytics has assumed in today's organizations. Data analytics has become a key component in accomplishing strategic and operational goals. This course is designed to familiarize students with the concepts and principles of analytics. It is targeted for graduate or MBA students who have little or no background in analytics. Therefore, it focuses on breadth of coverage rather than depth in any specific area.

**Prerequisite(s):** BSAD 8060 or BSAD 8070 (prior to or concurrent); or admission to the MAcc program. Not open to non-degree graduate students.

**BSAD 8710 SUPPLY CHAIN MANAGEMENT (3 credits)**

This course will focus on supply chain management as a key functional area of organizational success. Students will learn about current techniques used by supply chain practitioners to make strategic and tactical decisions that support the overall strategy and day-to-day operations of an organization. Students will develop an understanding of how supply chain decisions and appropriate metrics of performance can be utilized to improve the operational efficiency and effectiveness of an organization. (Cross-listed with HLSC 8710, SCMT 8710).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**BSAD 8720 STRATEGIC FINANCIAL MANAGEMENT (2 credits)**

This course is intended to be advanced financial management. It will stress the theory and application of topics including, but not limited to capital budgeting, cash flow estimation, real options, capital structure, dividends and share repurchases, working capital management, budgeting, planning and forecasting, and lease management. The material covered in Strategic Financial Management will increase the student's knowledge of how to strategically manage financial resources to increase the intrinsic value of the organization.

**Prerequisite(s):** For MBA students, BSAD 8630. For MAcc students, completion of all Master of Accounting (MAcc) foundation courses. Not open to non-degree graduate students.

**BSAD 8726 INNOVATION VENTURES (3 credits)**

This team-based course provides students with the opportunity to practice the basic tools of business discovery and validation. Concepts and techniques in innovation, entrepreneurship, and strategy will be used to aid students in the venture creation process. Important considerations impacting the viability of the venture post formation will also be explored. Practical real-world experimentation is the central component of the course and will help students to conceive, develop, and launch their own innovative ventures. (Cross-listed with ACMP 4720, HCC 8256, ENTR 4720, ENTR 8726, MGMT 4720, MGMT 8726, MKT 4720, MKT 8726).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**BSAD 8736 ECONOMICS OF ENTREPRENEURSHIP (3 credits)**

This course will review economic theories of entrepreneurship with special emphasis on Schumpeter's theory of creative destruction. The main focus of the seminar will be on the "high-level" entrepreneurship that sometimes results in major innovations. This course will address the societal benefits of entrepreneurship, factors influencing entrepreneurial success, the policies that best encourage entrepreneurship, and how firms can survive and prosper in an entrepreneurial environment. (Cross-listed with ECON 4730, ECON 8436)

**Prerequisite(s):** ECON 2200 or permission of the instructor for all students

**BSAD 8766 SELLING IN AN ENTREPRENEURIAL CONTEXT (3 credits)**

Successful entrepreneurs are able to identify unmet needs in the marketplace and then design and sell products or services that fulfill those needs. Sales effectiveness is essential for entrepreneurs because they must be able to build sustainable sales pipelines that ensure profitable growth while simultaneously addressing other pressing issues including financing, staffing, and product development. This course will focus on consultative solution-based sales fundamentals that can be applied in an entrepreneurial selling environment. (Cross-listed with ENTR 4760, MKT 4760)

**Prerequisite(s):** GPA 2.5 or better; MKT 3100 with a "C+" or better; MKT 3310 with a "C+" or better; or permission of instructor. Not open to non-degree graduate students.

**BSAD 8776 INTRODUCTORY MAVERICK VENTURE FUND (1 credit)**

This course teaches the basics of venture capital, including, the topics of term sheets, due diligence and learning the perspectives of the entrepreneur and investor. Students in this course have the opportunity to observe more advanced students making investments, ranging from 5,000 dollars to 10,000 dollars plus. This course is the first of three, one-credit courses where students gain more advanced venture funding knowledge and application at each level. (Cross-listed with ENTR 4770).

**Prerequisite(s):** This course requires instructor approval. Students must apply and interview to take this course. Preference is given to students in their junior year, and must have three semesters of school left before graduating.

**BSAD 8786 INTERMEDIATE MAVERICK VENTURE FUND (1 credit)**

In this course, students source deals, listen to pitches, and select start-ups to be funded. Investments typically range from 5,000 dollars to 10,000 dollars plus. This course is the second in a set of three courses that increase in difficulty with each course. (Cross-listed with ENTR 4780).

**Prerequisite(s):** This course requires instructor approval. Students must have completed BSAD 8776 with a grade of C or better.

**BSAD 8796 ADVANCED MAVERICK VENTURE FUND (1 credit)**

This course applies advanced concepts of venture capital. Students will learn how to monitor and assist start-ups in the scaling process. Students learn how to leverage community partners to amplify investment opportunities. This course is the third in a set of three courses that increase in difficulty with each course. (Cross-listed with ENTR 4790).

**Prerequisite(s):** This course requires instructor approval. Students must have completed BSAD 8786 with a grade of C or better.

**BSAD 8800 MBA PROJECT-FOCUSED CAPSTONE (2 credits)**

In this Master's of Business Administration (MBA) required project-focused capstone course, students complete a service-learning consulting project for a non-profit or other type of organization. This consulting project will focus on the application of the knowledge and skills learned in the MBA program.

**Prerequisite(s):** Students must successfully complete BSAD 8630, BSAD 8420, and BSAD 8830 prior to Capstone and must also complete this course in the final semester or within the last nine (9) hours of their MBA program. Not open to non-degree graduate students.

**BSAD 8820 CONTEMPORARY BUSINESS ISSUES (1 credit)**

This course exposes students to contemporary business issues that they are likely to experience as leaders. Students will examine and synthesize academic literature relevant to an instructor-approved specific topic associated with the contemporary business issue of focus. This course is to be used for MBA students who need a one credit hour course to meet their credit hour graduation requirements.

**Prerequisite(s):** Permission of MBA advisor (email mba@unomaha.edu). Not open to non-degree graduate students.

**BSAD 8830 STRATEGY: DEVELOPING SUSTAINABLE COMPETITIVE ADVANTAGE (2 credits)**

This course centers on the theme that a company achieves sustained success if and only if its managers (1) develop, and revise as needed, an action-oriented strategic plan and (2) implement and execute the plan with some proficiency. The primary objective of this course is to sharpen the ability of students to think strategically, to diagnose situations from a strategic perspective and to develop creative solutions to enable firms to achieve a sustainable competitive advantage.

**Prerequisite(s):** Students must successfully complete BSAD 8150 and BSAD 8210 before enrolling in this course. This course must be taken within the first 20 hours of the MBA program. Not open to non-degree graduate students.

**BSAD 8836 FUNDAMENTALS OF FINANCIAL PLANNING (3 credits)**

The course provides students with practical skills in evaluating personal financial statements, applying time value of money principles, creating education funding strategies, advising on debt management, integrating behavioral finance, and understanding regulatory, ethical, legal, and economic aspects of financial planning. (Cross-listed with FNBK 4300).

**BSAD 8846 RETIREMENT PLANNING & EMPLOYEE BENEFITS (3 credits)**

This course addresses key retirement issues, such as income planning, Social Security, Medicare, long-term care insurance, and retirement plan distributions. It also covers housing, guardianships, powers of attorney, and living trusts. Students will explore employee benefits, focusing on distribution options, rules, taxation, and investment strategies. Additional topics include equity-based and deferred compensation. The course provides a broad understanding of factors influencing retirement decisions for individuals. (Cross-listed with FNBK 4320).

**BSAD 8856 ESTATES AND INCOME TAX (3 credits)**

This course covers estate planning topics, such as estate and gift taxes, trust planning, property ownership, life insurance, annuities, postmortem tax strategies, and charitable giving. It emphasizes tax planning strategies related to investment goals, focusing on discretionary income and net worth. Students will learn to evaluate investment decisions based on current tax implications. (Cross-listed with FNBK 4330).

**BSAD 8866 APPLICATIONS IN PERSONAL FINANCIAL PLANNING (3 credits)**

In this course for the Financial Planning program, students apply their knowledge through case-based learning to demonstrate their proficiency in financial planning, insurance, tax, retirement, and estate planning. The course involves a comprehensive case analysis, integrating key areas of financial planning. (Cross-listed with FNBK 4340).

**Prerequisite(s):** BSAD 8836, BSAD 8510, BSAD 8846, BSAD 8596, & BSAD 8856

**BSAD 8880 ARTS AND THE EXECUTIVE (3 credits)**

The course will provide the graduate student with an understanding of the organizational and managerial issues involved in an arts organization as the role of the arts in the business community.

**Prerequisite(s):** Graduate. Not open to nondegree students.

**BSAD 8900 INDEPENDENT STUDY (1-6 credits)**

In this independent study course, individual students are able to complete independent research in a business-related topic area under the supervision of a faculty member. Written independent study reports are expected to include appropriate academic citations and references.

**Prerequisite(s):** Graduate and permission of MBA Advisor. Requires submission of completed Independent Study Contract to MBA Advisor prior to registration. Not open to non-degree graduate students.

**BSAD 8926 SPECIAL TOPICS IN BUSINESS (3 credits)**

This business-focused special topics course is designed to provide students the opportunity to focus on a current or emerging topic in any area of business. An in depth exploration of the topic will be undertaken with the expectation that students will play an active role in the course and engage deeply with the material and concepts addressed within the focal topic area. (Cross-listed with BSAD 4920).

**Prerequisite(s):** Not open to non-degree graduate students.

**BSAD 8990 THESIS (1-6 credits)**

A research project, under the supervision of a faculty thesis adviser in the College of Business Administration, in which the student establishes his capacity to design, conduct and complete an independent, scholarly investigation of a high originality. The research topic and the completed project must be approved by the student's faculty thesis adviser and two other faculty members, one of whom must be from outside the program area.

**Prerequisite(s):** Permission of graduate adviser. Not open to non-degree graduate students.

## Chemical Engineering (CHME)

### Chemical Engineering Graduate Courses

**CHME 8306 CHEMICAL ENGINEERING LAB (4 credits)**

Selected experiments in chemical engineering. Emphasis on experimental design, interpretation of results, and formal oral and written reports. (Cross-listed with CHME 4300).

**Prerequisite(s):** CHME 2030 and CHME 3330 and (coreq CHME 4420 or CHME 8426)

**CHME 8346 DIFFUSIONAL OPERATIONS (3 credits)**

Application of diffusional theory to the design of processing equipment required for absorption, adsorption, leaching, drying, and chemical reactions. (Cross-listed with CHME 4340).

**Prerequisite(s):** CHME 3330 and CHME 4420 and MATH 2350

**CHME 8426 CHEMICAL REACTOR ENGINEERING AND DESIGN (3 credits)**

Basic principles of chemical kinetics are coupled with models descriptive of rates of energy and mass transfer for the analysis and design of reactor systems. (Cross-listed with CHME 4420).

**Prerequisite(s):** CHME 3230

**CHME 8896 AIR POLLUTION, ASSESSMENT AND CONTROL (3 credits)**

Survey of the present status of the air pollution problem and the application of engineering and scientific principles to its practical and effective coordinated control. (Cross-listed with CHME 4890).

**Prerequisite(s):** Senior standing, not open to nondegree students

# Chemistry (CHEM)

## Chemistry Graduate Courses

### **CHEM 8040 SEMINAR IN TEACHING ADVANCED PLACEMENT CHEMISTRY (2 credits)**

This course provides an introduction to the Advanced Placement high-school chemistry course and includes instruction on content and methods specific to teaching an Advanced Placement chemistry course. Emphasis will be placed on subject content and adaptations of college-level laboratory experiments to the high-school level.

**Prerequisite(s):** Concurrent enrollment in the Advanced Placement Chemistry Institute at UNO and current employment as a high-school science teacher or instructor permission.

### **CHEM 8215 INTRODUCTION TO MOLECULAR MODELING (3 credits)**

The course covers the advantages and limitations of current modeling systems, the criteria for choosing the appropriate modeling system to best solve a given problem and the computer resources needed to conduct the modeling experiments. Following an introduction to the theory behind a variety of modeling systems, students model organic and bioorganic compounds in projects designed to mimic real world applications. (Alternate Spring semesters). (Cross-listed with CHEM 3210).

**Prerequisite(s):** CHEM 2260 and CHEM 2274 with a grade of C- or better.

### **CHEM 8236 ADVANCED ORGANIC CHEMISTRY - SYNTHESIS (3 credits)**

An advanced lecture course in modern theories and organic reactions with application to synthesis. (Alternate Fall semesters) (Cross-listed with CHEM 4230).

### **CHEM 8246 ADVANCED ORGANIC CHEMISTRY - MECHANISM (3 credits)**

An advanced lecture course in organic chemical reactions. (Cross-listed with CHEM 4240).

**Prerequisite(s):** CHEM 2260 and CHEM 2400 with a C- or better

### **CHEM 8256 ADVANCED ORGANIC CHEMISTRY: MECHANISMS AND MODELING (4 credits)**

Presentation of advanced topics in organic chemistry focused on structure, bonding and reaction mechanisms. The use of molecular modeling software as means to predict structure, relative stabilities and reaction thermodynamics are covered in a hands-on environment. The course will survey various modeling methods and show its relevance to molecular orbital theory. The basic methodologies used to explore organic mechanisms are presented and then used to study mechanistic details of various reaction types. Students cannot count both Chem 4250 and Chem 4240 toward their degree. (Cross-listed with CHEM 4250).

**Prerequisite(s):** CHEM 2260 and CHEM 2274 with a C- or better

### **CHEM 8276 ADVANCED ORGANIC CHEMISTRY-MOLECULAR MODELING LABORATORY (1 credit)**

The use of molecular modeling software as means to predict structure, relative stabilities and reaction thermodynamics are covered in a hands-on environment. The course will survey various modeling methods and show its relevance to organic reactions and mechanisms therein. Students will learn how to use commercial software to obtain/supplement experimental data in a manner suitable for peer-review publication. (Cross-listed with CHEM 4244).

**Prerequisite(s):** CHEM 2260 and CHEM 2400 with a C- or better

### **CHEM 8316 POLYMER CHEMISTRY (3 credits)**

An introduction to the chemical and physical properties of polymers. Emphasis will be on physical properties and structure/property relationships. Topics will include kinetics and synthesis. Students will gain an understanding of the characteristics of polymers and their applications.

**Prerequisite(s):** CHEM 2260 and CHEM 3350 with a grade of C or better, or instructor permission.

### **CHEM 8355 PHYSICAL CHEMISTRY I (3 credits)**

A presentation of selected topics from the laws of thermodynamics, chemical and physical equilibria, phase diagrams, thermodynamics of solutions, electrochemistry and kinetics. (Fall) (Cross-listed with CHEM 3350).

**Prerequisite(s):** CHEM 2260, CHEM 2274, CHEM 2400, CHEM 2404, PHYS 1120 or PHYS 2120; MATH 1960 or higher. (Chemistry courses must be with a grade of C- or better). Concurrent enrollment in CHEM 3354/8359.

### **CHEM 8359 PHYSICAL CHEMISTRY I LABORATORY (1 credit)**

Physical chemistry laboratory covering topics in thermodynamics, kinetics and electrochemistry, to be taken concurrently with CHEM 3350/8355. Instruction and practice in scientific writing is also an emphasis of the course. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. Offered in Fall. (Cross-listed with CHEM 3354).

### **CHEM 8365 PHYSICAL CHEMISTRY II (3 credits)**

This course provides students with an overview of quantum mechanics and its application to chemistry, particularly through the lens of atomic and molecular spectroscopy and computational modeling. (Cross-listed with CHEM 3360).

**Prerequisite(s):** CHEM 3350 and CHEM 3354 OR CHEM 8355 and CHEM 8359 with a grade of C- or better.

### **CHEM 8369 PHYSICAL CHEMISTRY II LABORATORY (1 credit)**

Physical chemistry laboratory covering topics in quantum mechanics, computational chemistry, spectroscopy, and kinetics, to be taken concurrently with CHEM 3360. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. Offered in Spring. (Cross-listed with CHEM 3364).

### **CHEM 8406 INSTRUMENTAL ANALYSIS (3 credits)**

Study of instrumentation for use in chemical analysis and chemistry research. Advanced instrumental methods and data analysis techniques are included. (Cross-listed with CHEM 4400).

**Prerequisite(s):** CHEM 3350 and CHEM 3354 both with a C- or better; or CHEM 3360 and CHEM 3364 both with a C- or better; or instructor permission. Concurrent enrollment in CHEM 8409.

### **CHEM 8409 INSTRUMENTAL ANALYSIS LABORATORY (1 credit)**

Investigation of instrument performance and use of instrumentation in quantitative and trace analysis. Advanced instrumental methods and electronics for instrumentation are included. (Spring) (Cross-listed with CHEM 4404).

**Prerequisite(s):** Concurrent enrollment in CHEM 8406

### **CHEM 8425 SPECTROMETRIC CHARACTERIZATIONS (1 credit)**

A laboratory course intended to further develop the ability to determine chemical structure from focused spectrometric data especially IR, MS, 1D and 2D (proton and carbon) NMR. Lab time focuses on the spectrochemical data collection and interpretation. (Cross-listed with CHEM 3424).

### **CHEM 8506 ADVANCED INORGANIC CHEMISTRY (3 credits)**

The application of bonding models for understanding of the composition, structure, and reactions of inorganic molecules, including organometallic and bioinorganic complexes. (Cross-listed with CHEM 4500).

**Prerequisite(s):** CHEM 8355 or may be taken concurrently.

### **CHEM 8654 BIOCHEMISTRY I LABORATORY (1 credit)**

A laboratory course to help integrate the concepts learned in biochemistry lecture with the development of biochemical laboratory skills including experimental design, data analysis, presentation of results and communication of scientific information, with a focus on formal instruction in journal-style writing and notebook skills. There is an emphasis on protein properties, including enzyme activity. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. (Fall) (Cross-listed with BIOL 4654, BIOL 8654, CHEM 4654).

**CHEM 8656 BIOCHEMISTRY I (3 credits)**

A comprehensive introduction to biochemistry emphasizing: structure-function relationships for proteins, carbohydrates, lipids, and nucleic acids; protein purification; enzyme kinetics and mechanisms; membranes and membrane transport; carbohydrate metabolism including glycolysis, the citric acid cycle and oxidative phosphorylation; and important applications of thermodynamics and the properties of water to living systems. (Fall) (Cross-listed with BIOL 4650, BIOL 8656, CHEM 4650).

**Prerequisite(s):** CHEM 2260 and CHEM 2274; and either CHEM 2400 or BIOL 3020, all with a C- or better. Other comparable courses taken at accredited colleges or universities are acceptable. CHEM 8654 must be taken concurrently.

**CHEM 8664 BIOCHEMISTRY II LABORATORY (1 credit)**

A laboratory course to help integrate the concepts learned in Biochemistry II lecture with the development of biochemical laboratory skills, to gain practical experience in experimental design, data analysis, presentation of results and communication of scientific information, with a focus on formal instruction in journal-style writing and notebook skills. There is an emphasis on nucleic acid properties. Fulfills the third writing course requirement for students majoring in chemistry when NSCI 3940 and another approved laboratory course have been completed with a C- or better. (Spring) (Cross-listed with BIOL 4664, BIOL 8664, CHEM 4664).

**CHEM 8666 BIOCHEMISTRY II (3 credits)**

A continuation of the study of the structure and function of biomolecules and biochemical reactions with an emphasis on metabolism of carbohydrates, lipids, amino acids and nucleotides, and the chemistry of signal transduction and genetic information transfer. (Spring) (Cross-listed with BIOL 4660, BIOL 8666, CHEM 4660).

**Prerequisite(s):** CHEM 8656 and CHEM 8654 or BIOL 8656 and BIOL 8654 with a grade of B- or better. CHEM 8664 must be taken concurrently.

**CHEM 8676 PROTEIN PURIFICATION AND CHARACTERIZATION (2 credits)**

This course is a study of protein biochemistry, protein purification techniques, and characterization strategies with an emphasis on chromatography and crystallography. The course has a significant laboratory component. (Cross-listed with CHEM 4670).

**Prerequisite(s):** CHEM 8656 and CHEM 8654 (grade of B or better), or permission of instructor.

**CHEM 8936 SPECIAL TOPICS IN CHEMISTRY (1-3 credits)**

Selected special topics in chemistry. (Cross-listed with CHEM 4930).

**Prerequisite(s):** CHEM 2260, CHEM 2400 with a grade of C or better. Some topics will require more advanced prerequisites and will be accepted for advanced course work in chemistry.

**CHEM 8966 CHEMISTRY PROBLEMS (1-3 credits)**

Independent student research and communication of results. (Cross-listed with CHEM 4960).

**Prerequisite(s):** CHEM 4950 with a grade of C or better and permission of instructor or graduate standing in a related discipline

**CHEM 8990 RESEARCH IN CHEMISTRY (1 credit)**

Experimental or theoretical work in chemistry or an interdisciplinary field involving chemical content, analysis and communication of results.

**Prerequisite(s):** Permission of instructor, graduate, and sufficient grounding in the research area to fully support successful project accomplishment.

# College of Information Science & Technology (CIST)

## College of Information Science Technology Graduate Courses

**CIST 8950 GRADUATE CAPSTONE (3 credits)**

The graduate capstone course challenges students to prove their mastery of the skills and domain knowledge they have gathered throughout their program of study. The course begins with a module on project management and research best practices. The majority of course is structured around facilitating a non-trivial semester-long project, often in service to a third-party project sponsor, such as a community, industry, or government partner. The course is intended for students that have selected the coursework option, not thesis, and that are close to graduation (see prerequisites).

**Prerequisite(s):** Students must have 9 credit hours or fewer left in their program. Not open to non-degree graduate students.

**CIST 9040 COLLOQUIUM ON IT RESEARCH (1 credit)**

The purpose of the course is to provide a forum for interaction among doctoral students and faculty on topics of relevance to professional success as researchers. Topics to be discussed include: nature of research in information technology; research problem selection, development, and presentation with special emphasis on the doctoral dissertation; dissertation process; development and crafting of papers for journals; collaboration on research projects; and review process for journal papers.

**Prerequisite(s):** Admission to PhD program in Information Technology or permission of instructor.

**CIST 9050 COLLOQUIUM ON IT TEACHING (1 credit)**

The purpose of the course is to provide a forum for interaction among doctoral student and faculty on topics of relevance to professional success as teachers/educators in university settings. Topics to be discussed include: issues and challenges of teaching; getting started in teaching; course preparation; teaching methods; assessment of students; on-going course development; diversity in the classroom; use of technology in teaching including online education; and developing and maintaining a teaching portfolio.

**Prerequisite(s):** Doctoral students in Information Technology and Biomedical informatics. Students from doctoral programs across the University of Nebraska are welcome to register with permission of instructor. Not open to non-degree graduate students.

**CIST 9060 COLLOQUIUM ON IT PROFESSION AND ETHICS (1 credit)**

The purpose of this course is to provide a forum for interaction among doctoral students and faculty on topics of relevance to professional success as members of the academy. Some of the topics to be discussed will include: ethics and professional code of conduct; strategies for dealing with academic dishonesty/plagiarism; academic and professional organizations in the IT profession (e.g., IEEE, ACM, AIS, PMI, AITP); challenges of human subjects research; developing survival skills: balancing service, teaching and research, etc.; career development and progression; and role and nature of local, national, and international service.

**Prerequisite(s):** Any IS&T PhD student is eligible to attend; other Doctoral students can attend with permission of instructor. Not open to non-degree graduate students.

**CIST 9080 RESEARCH DIRECTIONS IN I.T. (3 credits)**

The purpose of this course is to provide a forum for interaction among doctoral students and faculty on topics of relevance to IT research and make them familiar with current and future research directions in IT. Students will examine what constitutes a research contribution, gain hands-on experience with directed research, and explore the breadth of sub-disciplines within IT research.

**Prerequisite(s):** Doctoral standing in Information Technology or permission of course coordinators. Not open to non-degree graduate students.



**CIST 9100 SEMINAR ON READINGS IN IT (1 credit)**

Seminar focused on IT literature within a topic area aligned with PhD in IT concentrations, providing opportunity for in-depth review and discussion of materials in the concentration reading list. Provides exposure to current topics, research methods, and professional practice for the concentration.

**Prerequisite(s):** Open to all currently admitted PhD students and other graduate students by instructor permission. May be repeated up to 3 times for credit in Major Field of Study, and up to 3 times as an elective.

**CIST 9900 SPECIAL TOPICS IN INFORMATION TECHNOLOGY (3 credits)**

This course is designed to acquaint students with issues which are current to the field or emerging trends in the information technology area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once.

**Prerequisite(s):** Permission of the instructor. Additional prerequisite courses may be required for particular topic offerings.

**CIST 9970 RESEARCH OTHER THAN THESIS (1-3 credits)**

This is a directed research course enabling students to pursue a research topic individually under the direction of a graduate faculty member.

Research problems should help introduce students to practical research methods in the field of computing, and they should be framed in such a way to enable the student to complete the work in the course of one semester.

**Prerequisite(s):** Requires instructor permission. Only open to doctoral students in the IT PhD program. Course cannot be taken for credit after candidacy nor count towards core/major field of study requirements in the IT PhD. Not open to non-degree graduate students.

**CIST 9980 INDEPENDENT STUDY IN INFORMATION TECHNOLOGY (1-3 credits)**

This course allows students to conduct an in-depth study of a specific topic of their interest that is not available in a formal course. The topic to be studied must be agreed upon by the student and the instructor, including a structured schedule and grading criteria, and should be distinct from students' thesis work or Research Other Than Thesis (CIST 9970) course credits.

**Prerequisite(s):** Requires instructor permission. Only open to doctoral students in the IT PhD program. Not open to non-degree graduate students.

**CIST 9990 DISSERTATION (1-12 credits)**

The dissertation is an original research project conducted and written under the direction of a faculty supervisory committee. The dissertation provides the student with an opportunity to do original research that contributes to advancing the body of knowledge in information systems and/or information technology.

**Prerequisite(s):** Admission to the Ph.D. program in Information Technology. Admission to candidacy for the Ph.D. degree. Prior to enrolling for dissertation hours, the students must have permission of the supervisory committee. Not open to non-degree graduate students.

## Civil Engineering (CIVE)

### Civil Engineering Graduate Courses

**CIVE 819 FLOW SYSTEMS DESIGN (3 credits)**

Application of hydraulic principles to the design of water distribution systems, wastewater and stormwater collection systems, channelized flow systems and treatment facilities. (Cross-listed with CIVE 419).

**Prerequisite(s):** CIVE 321; Corequisite: CIVE 351

**CIVE 822 POLLUTION PREVENTION: PRINCIPLES AND PRACTICES (3 credits)**

Introduction to pollution prevention (P2) and waste minimization methods. Practical applications to small businesses and industries. Legislative and historical development of P2 systems analysis, waste estimation, P2 methods, P2 economics, and sources of P2 information. (Cross-listed with CIVE 422).

**CIVE 823 PHYSICAL & CHEMICAL TREATMENT PROCESSES IN ENVIRONMENTAL ENG (3 credits)**

Evaluation and analysis of physical and chemical unit operations and processes applied to the treatment of water, wastewater, and hazardous wastes.

**Prerequisite(s):** CIVE326 and CIVE425

**CIVE 824 SOLID WASTE MANAGEMENT ENGINEERING (3 credits)**

Planning design and operation of solid and waste collection processing, treatment, and disposal systems including materials, resources and energy recovery systems. (Cross-listed with CIVE 424).

**Prerequisite(s):** CIVE 321

**CIVE 825 DESIGN OF WATER TREATMENT FACILITIES (3 credits)**

Analyses of water supplies and design of water treatment and distribution systems. (Cross-listed with CIVE 425).

**Prerequisite(s):** Parallel with CIVE 420

**CIVE 826 DESIGN OF WASTEWATER TREATMENT AND DISPOSAL FACILITIES (3 credits)**

Analysis of systems for wastewater treatment and disposal. (Cross-listed with CIVE 426).

**Prerequisite(s):** CIVE 420

**CIVE 828 ENVIRONMENTAL ENGINEERING CHEMISTRY (3 credits)**

Basic concepts from general chemistry. Thermodynamic and kinetic basis for the composition of aquatic systems. Equilibrium chemistry, including acid-base reactions, reduction-oxidation reactions, metal speciation and precipitation, and gas/liquid partitioning.

**Prerequisite(s):** CIVE 326. Not open to non-degree graduate students.

**CIVE 829 BIOLOGICAL WASTE TREATMENT (3 credits)**

Principles of biological processes and their application in the design of waste treatment systems.

**Prerequisite(s):** CIVE 326 or equivalent.

**CIVE 830 FUNDAMENTALS OF WATER QUALITY MODELING (3 credits)**

Comprehensive study of water quality and the effects of various water pollutants on the aquatic environment; modeling of water quality variables. (Cross-listed with CIVE 430).

**Prerequisite(s):** CIVE 321

**CIVE 831 ADVANCED SOIL MECHANICS (3 credits)**

Application of the effective stress principle to shear strength of cohesive soil; analysis of stability of slopes. Development of continuum relationships for soil; solutions for stresses and displacements for an elastic continuum. Solution of the consolidation equation for various initial and boundary conditions.

**Prerequisite(s):** CIVE 334

**CIVE 834 SOIL MECHANICS II (3 credits)**

(Lecture 3, option Lab 3) Application of the effective stress principle to shear strength of cohesive soils; analysis of stability of slopes. Development of continuum relationships for soils; solutions for stresses and displacements for an elastic continuum, solution of the consolidation equation for various initial and boundary conditions.

**Prerequisite(s):** CIVE334

**CIVE 836 FOUNDATION ENGINEER (3 credits)**

(Lecture 3, Optional Lab 3) Subsoil exploration and interpretation; selection of foundation systems; determination of allowable bearing capacity and settlement; design of deep foundations; pile driving analysis; control of groundwater.

**Prerequisite(s):** CIVE 334

**CIVE 840 REINFORCED CONCRETE DESIGN I (3 credits)**

Introduction to the design of reinforced concrete building components. Emphasis is placed on the design of flexural and compression members, simple walls, foundations, and floor systems using the latest ACI design requirements.

**Prerequisite(s):** CIVE341



**CIVE 842 STRUCTURAL DYNAMICS (3 credits)**

Dynamic behavior of civil engineering structures. Free and forced vibrations of multi degree-of-freedom systems. Response of continuous beam and frames. Elasto-plastic behavior. Dynamic loads on bridges. Analysis and design considerations for buildings and bridges subjected to seismic loadings. Emphasis is on application of computer-aided numerical procedures.

**Prerequisite(s):** CIVE 443

**CIVE 843 ADVANCED STRUCTURAL ANALYSIS (3 credits)**

Matrix analysis methods and computer solutions for indeterminate structures. Additional topics: static condensation, shear deformations, and non-prismatic members in matrix-based analyses, moment distribution method, load cases and load combinations for buildings and bridges, and influence lines and analysis for moving loads. (Cross-listed with CIVE 443)

**Prerequisite(s):** CIVE 341. Not open to non-degree graduate students.

**CIVE 844 STRUCTURAL DESIGN AND PLANNING (3 credits)**

Principles of design of steel and reinforced concrete structural building systems, planning of building vertical and horizontal load resisting systems, and bridge systems. Several design projects involve indeterminate analysis and design concepts for both steel and reinforced concrete. (Cross-listed with CIVE 444).

**Prerequisite(s):** CIVE 440 and CIVE 441; CIVE 444/844 is not available for graduate credit for civil engineering students.

**CIVE 846 STEEL DESIGN II (3 credits)**

A continuation of CIVE 441. The principles and procedures used in design of steel buildings, design of plate girders, design and analysis of building systems, design and analysis of composite steel-concrete building systems, innovative building systems, and introduction to seismic design of steel buildings. Plate buckling, beam, column, and beam-column design. Frame stability. Introduction to connection design.

**Prerequisite(s):** CIVE441

**CIVE 847 REINFORCED CONCRETE II (3 credits)**

Shear friction theory, strut-and-tie modeling, anchorage, deflection, slender and bi-axially loaded members, torsion, two-way action and punching shear, and footing design. Excel spreadsheets are developed and used for various design tasks. (Continuation of topics covered in CIVE 440.) (Cross-listed with CIVE 447).

**Prerequisite(s):** CIVE 840

**CIVE 848 RELIABILITY OF STRUCTURES (3 credits)**

Fundamental concepts related to structural reliability, safety measures, load models, resistance models, system reliability, optimum safety levels, and optimization of design codes. (Cross-listed with CIVE 484).

**Prerequisite(s):** CIVE 341

**CIVE 849 INTRODUCTORY FINITE ELEMENT ANALYSIS IN SOLID MECHANICS (3 credits)**

Matrix methods of analysis. The finite element stiffness method with a focus on solid mechanics. Isoparametric elements formulation based on energy principles. Perform finite element analyses using commercial software.

**Prerequisite(s):** CIVE 443 or 843

**CIVE 850 PRESTRESSED CONCRETE (3 credits)**

Analysis and design of prestressed concrete members. Axial force, bending, shear, torsion, prestress losses, initial and long-term deflection, partial prestressing, statically indeterminate structures.

**Prerequisite(s):** CIVE341 and CIVE440

**CIVE 852 WATER RESOURCES DEVELOPMENT (3 credits)**

Theory and application of systems engineering with emphasis on optimization and simulation techniques for evaluating alternatives in water resources developments related to water supply, flood control, hydroelectric power, drainage, water quality, water distribution, irrigation and water measurement. (Cross-listed with CIVE 452).

**Prerequisite(s):** CIVE 351

**CIVE 853 GIS IN WATER RESOURCES (3 credits)**

Familiarization with a wide range of spatial information and used in hydrologic and water resources analysis. Development of expertise in GIS systems, especially ArcGIS, Digital mapping and analysis of water resources information. Hydrologic terrain analysis using digital elevation models. Integration of time series and geospatial data. Hydrologic Information Systems. River and watershed networks. Evapotranspiration, Precipitation (PRISM), Soil, and Landuse maps, and databases. Use of Remote Sensing tools.

**CIVE 854 HYDRAULIC ENGINEERING (3 credits)**

Fundamentals of hydraulics with applications of mechanics of solids, mechanics of fluids, and engineering economics to the design of hydraulic structures. Continuity, momentum, and energy principles are applied to special problems from various branches of hydraulic engineering. (Cross-listed with CIVE 454).

**Prerequisite(s):** CIVE 351

**CIVE 855 NONPOINT SOURCE POLLUTION CONTROL ENGINEERING (3 credits)**

Identification, characterization, and assessment of nonpoint source pollutants; transport mechanisms and remediation technologies; design methodologies and case studies. (Cross-listed with CIVE 455).

**Prerequisite(s):** CIVE 326 and CIVE 352

**CIVE 856 SURFACE WATER HYDROLOGY (3 credits)**

Stochastic analysis of hydrological data and processes including rainfall, runoff, infiltration, temperature, solar radiation, wind, and non-point pollution. Space-time hydrologic modeling with emphasis on the application of techniques in the design of engineering projects. (Cross-listed with CIVE 456).

**Prerequisite(s):** CIVE 351

**CIVE 857 APPLIED STRUCTURAL ANALYSIS (3 credits)**

Review of basic concepts. Mesh generation using a preprocessor. 2D and 3D Model generation. Boundary conditions. Implicit and explicit solution algorithms. Interpretation of analysis results using a post-processor. Solution of problems using existing FE software.

**Prerequisite(s):** CIVE851

**CIVE 858 GROUNDWATER ENGINEERING (3 credits)**

Application of engineering principles to the movement of groundwater. Analysis and design of wells, well fields, and artificial recharge. Analysis of pollutant movement. (Cross-listed with CIVE 458).

**Prerequisite(s):** CIVE 351

**CIVE 859 RELIABILITY OF STRUCTURES (3 credits)**

Fundamental concepts related to structural reliability, safety measures, load models, resistance models, system reliability, optimum safety levels, and optimization of design codes.

**Prerequisite(s):** CIVE341, not open to nondegree students

**CIVE 861 URBAN TRANSPORTATION PLANNING (3 credits)**

Development of urban transportation planning objectives and goals. Data collection procedures, land use and travel forecasting techniques, trip generation, trip distribution, modal choice analysis, and traffic assignment. Site development and traffic impact analysis. (Cross-listed with CIVE 461).

**Prerequisite(s):** CIVE 361

**CIVE 862 HIGHWAY DESIGN (3 credits)**

Design of roadways, intersections, interchanges, parking facilities, and land development site access and circulation. Emphasis on design projects. (Cross-listed with CIVE462)

**CIVE 863 TRAFFIC ENGINEERING (3 credits)**

Design of signalized intersections, arterial street and network signal systems, and freeway control systems. Emphasis on design projects. (Cross-listed with CIVE463)

**Prerequisite(s):** CIVE361

**CIVE 864 ANALYSIS AND ESTIMATION OF TRANSPORTATION DEMAND (3 credits)**

Introduction to conceptual, methodological and mathematical foundations of analysis and design of transportation services; review of probabilistic modeling; application of discrete choice models to demand analysis.

**Prerequisite(s):** CIVE461 or CIVE861 or equivalent

**CIVE 865 HIGHWAY GEOMETRICS (3 credits)**

Principles of highway geometrics. Sight distances, design vehicles, vehicle characteristics, horizontal and vertical alignment, cross section elements, and at-grade intersections and interchanges.

**Prerequisite(s):** (CIVE462 or CIVE862), not open to nondegree students

**CIVE 866 TRANSPORTATION CHARACTERISTICS (3 credits)**

Use of the concepts of volume, speed, density, and capacity to describe the characteristics and performance of surface, air, and water transportation systems.

**Prerequisite(s):** (CIVE463 or CIVE863) and (STAT3800 or MATH3800)

**CIVE 867 TRANSPORTATION SAFETY ENGINEERING (3 credits)**

Safety criteria in the planning, design and operation phases of highway, rail, airport, mass transit, pipeline, and waterway transportation systems. Background of safety legislation and funding requirements. Identification of high accident locations and methods to determine cost/effectiveness of improvements.

**Prerequisite(s):** Permission.

**CIVE 868 AIRPORT PLANNING AND DESIGN (3 credits)**

Planning and design of general aviation and air-carrier airports. Land-side components include vehicle ground access systems, vehicle circulation parking and terminal buildings. Air-side components include aircraft apron-gate area, taxiway system, runway system and air traffic control facilities and airspace. Emphasis on design projects. (Cross-listed with CIVE468)

**Prerequisite(s):** CIVE361

**CIVE 869 COMPUTER-AIDED INTERCHANGE DESIGN (3 credits)**

Principles of high-speed traffic operations, safety, and decision making related to critical design parameters used for optimal interchange geometric design through development of an interchange design project using graphical and civil engineering software.

**Prerequisite(s):** CIVE 862. Not open to non-degree graduate students.

**CIVE 871 BITUMINOUS MATERIALS AND MIXTURES (3 credits)**

Understanding of the physical, chemical, geometrical, and mechanical characteristics and practical applications of bituminous materials and mixtures. Fundamental mechanics for elastic and inelastic materials and basic theories associated with mechanical data analyses and designs. Recent advances and significant research outcomes for further discussions. Applications of theories to laboratory and field testing. (Cross-listed with CIVE 471)

**Prerequisite(s):** CIVE 371. Not open to non-degree graduate students.

**CIVE 872 PAVEMENT DESIGN AND EVALUATION (3 credits)**

Thickness design of flexible and rigid pavement systems for highways and airports; design of paving materials; evaluation and strengthening of existing pavements. (Cross-listed with CIVE 472).

**Prerequisite(s):** CIVE 334

**CIVE 875 WATER QUALITY STRATEGY (3 credits)**

A holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. An introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystem for selecting strategies; and for evaluating present strategies.

**CIVE 881 COMPUTATIONAL PROBLEM SOLVING IN CIVIL ENGINEERING (3 credits)**

Introduction of numerical methods to solve problems in civil engineering, including finding roots of equations, solving linear algebra equations, optimization, curve fitting, numerical differentiation and integration, and finite difference method. Computational methods in numerical integration, matrix operations and ordinary differential equations as they apply to civil engineering problems. (Cross-listed with CIVE 481)

**Prerequisite(s):** MATH 2350; CIST 1600. Not open to non-degree graduate students.

**CIVE 891 SPECIAL TOPICS IN CIVIL ENGINEERING (1-6 credits)**

Special topics in emerging areas of civil engineering which may not be covered in other courses in the civil engineering curriculum.

**CIVE 894 INDEPENDENT STUDY IN CIVIL ENGINEERING (1-3 credits)**

Individual study at the masters level in a selected area of civil engineering under the supervision and guidance of a Civil & Environmental Engineering faculty member.

**CIVE 898 INDEPENDENT RESEARCH IN CIVIL ENGINEERING (1-6 credits)**

Independent research work and written findings, other than thesis or dissertation work, in a selected area of civil and environmental engineering under the supervision and guidance of a Civil & Environmental Engineering faculty member.

**CIVE 899 MASTERS THESIS (1-10 credits)**

Master's Thesis

**Prerequisite(s):** Admission to masters degree program and permission of major adviser, Not open to nondegree students.

**CIVE 910 RESEARCH WRITING IN CIVIL AND ENVIRONMENTAL ENGINEERING (1 credit)**

Discipline-specific training in proposal and manuscript writing and the opportunity to complete a full journal manuscript draft with peer and instructor feedback. Students enrolling in this class are expected to have already completed the research they wish to use for manuscript development.

**Prerequisite(s):** Instructor permission. Not open to non-degree graduate students.

**CIVE 916 ENVIRONMENTAL LAW AND WATER RESOURCE MANAGEMENT SEMINAR (3 credits)**

An interdisciplinary seminar with the Department of Civil Engineering. Contemporary environmental issues and water resource Management.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**CIVE 945 STRUCTURAL ANALYSIS AND DESIGN FOR DYNAMIC LOADS (3 credits)**

Behavior of structural materials and systems under dynamic loads. Analysis and design for dynamic loads. Computational techniques. Selected laboratory demonstrations of the dynamic behavior of structural systems.

**Prerequisite(s):** CIVE 443 or CIVE 843, and CIVE 842; or permission. Not open to non-degree graduate students.

**CIVE 948 BLAST-RESISTANT STRUCTURAL DESIGN (3 credits)**

Introduction to explosion effects. Air-blast. Fragmentation. Single-Degree-of-Freedom (SDOF) analysis. Equivalent SDOF systems. Pressure-impulse diagrams. Energy solutions. Steel design. Reinforced concrete design. Masonry design. Progressive collapse. Windows and doors.

**Prerequisite(s):** CIVE842

**CIVE 949 STEEL BRIDGE DESIGN (3-6 credits)**

Analysis and design of steel bridges for short, medium-, and long-span road and water crossings. Stringer bridges. Truss, arch, cable-stayed, and suspension bridges. High performance steel and accelerated construction.

**Prerequisite(s):** (CIVE436 or CIVE836) and (CIVE446 or CIVE846). Not open to non-degree graduate students.

**CIVE 954 ADVANCED HYDRAULICS (3 credits)**

Advanced studies involving pipe and culvert hydraulics, rapidly-varied flow in open channels, sediment transport, river mechanics, control, and design.

**Prerequisite(s):** CIVE 854. Not open to non-degree graduate students.

**CIVE 958 CONTAMINANT TRANSPORT IN POROUS MEDIA (3 credits)**

Theory of flow and contaminant transport in porous media including groundwater flow, multiphase flow, equilibrium contaminant distribution, reactive transport of contaminants, and colloid transport in porous media.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**CIVE 961 MASS TRANSIT SYSTEMS (3 credits)**

The place of mass transit in solving urban transportation problems: transit system and terminal characteristics and planning criteria. Speed, capacity, accessibility, and operation of mass transit systems. Future prospects in transit technology and case studies of existing systems.

**Prerequisite(s):** Not open to nondegree students

**CIVE 962 APPLICATION OF GEOGRAPHIC INFORMATION SYSTEMS (GIS) TO TRANSPORTATION (3 credits)**

Geographic Information Systems (GIS) structure, function, and concepts such as spatial data models, relational databases, and spatial analyses. GIS project planning, management, and applications to transportation-related issues.

**Prerequisite(s):** Not open to nondegree students

**CIVE 963 HIGHWAY SAFETY DATA ANALYSIS (3 credits)**

Highway safety issues and appropriate accident data analysis. Quantify changes in safety when modifications are made to highways in an effort to enhance safety. Judge reported safety improvements and carry out appropriate analysis for assessing the effectiveness of safety improvements.

**Prerequisite(s):** STAT8805, not open to nondegree students

**CIVE 964 THEORY TRAFFIC FLOW (3 credits)**

Analysis of traffic characteristics as applied to traffic engineering facility design and flow optimization. Capacity of expressways, ramps, weaving sections, and intersections. Analytical approaches to flow analysis, queueing theory, flow density relationships, and traffic simulation.

**Prerequisite(s):** CIVE 866 and (STAT 3800 or STAT 8805). Not open to non-degree graduate students.

**CIVE 965 TRAFFIC CONTROL SYSTEMS (3 credits)**

Principles of traffic control. Design and analysis of intersection, arterial street, network, and freeway control systems. Traffic surveillance and driver information systems.

**Prerequisite(s):** CIVE 966 and permission. Not open to non-degree graduate students.

**CIVE 966 TRANSPORTATION PLANNING AND ECONOMICS (3 credits)**

Community growth and development based on planning decisions regarding land use whereby transportation facilities are fitted to land use. Economic studies that consider the consequences to transportation agencies, users, and nonusers. Agency expenditures, capital outlay and annual expenses for maintenance and operations. User consequences such as vehicle operating costs; commercial time costs; accident costs; discomfort and inconvenience costs; and assignment of money valuations to pleasure, recreation, and culture. Nonusers consequences items such as cost reductions or increases in public services; increases in value of crops and natural resources where areas become more readily accessible; changes in business and industrial activities; and increase or decrease of residential property values.

**Prerequisite(s):** Permission.

**CIVE 967 ANALYSIS AND DESIGN OF TRANSPORTATION SAFETY SYSTEMS (3 credits)**

Operations research techniques for modeling system performance and design of transportation services. Routing and scheduling problems. Network equilibration and partially distributed queueing systems.

**Prerequisite(s):** Not open to nondegree students

**CIVE 989 SEMINAR IN CIVIL ENGINEERING (1-6 credits)**

Current topics, research projects, and review of current literature in the various areas of civil engineering.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**CIVE 990 CIVIL ENGINEERING SEMINAR (1-6 credits)**

Frontiers of an area of civil engineering.

**CIVE 990E CIVIL ENGINEERING SEMINAR IN ENVIRONMENTAL ENGINEERING (1-6 credits)**

Frontiers of an area of environmental engineering.

**CIVE 990M CIVIL ENGINEERING SEMINAR IN GEOTECHNICAL AND MATERIALS ENGINEERING (1-6 credits)**

Frontiers of an area of geotechnical and materials engineering.

**CIVE 990R CIVIL ENGINEERING SEMINAR IN STRUCTURAL ENGINEERING (1-6 credits)**

Frontiers of an area of structural engineering.

**CIVE 990T CIVIL ENGINEERING SEMINAR IN TRANSPORTATION ENGINEERING (1-6 credits)**

Frontiers of an area of transportation engineering.

**CIVE 990W CIVIL ENGINEERING SEMINAR IN WATER RESOURCES ENGINEERING (1-6 credits)**

Frontiers of an area of water resources engineering.

**CIVE 991 ADVANCED SPECIAL TOPICS IN CIVIL ENGINEERING (1-6 credits)**

Advanced special topics in emerging areas of civil and environmental engineering which may not be covered in other courses in the civil engineering curriculum.

**CIVE 994 ADVANCED INDEPENDENT STUDY IN CIVIL ENGINEERING (1-3 credits)**

Advanced individual study at the doctoral level in a selected area of civil engineering under the supervision and guidance of a Civil & Environmental Engineering faculty member.

**CIVE 998 ADVANCED INDEPENDENT RESEARCH IN CIVIL ENGINEERING (1-6 credits)**

Advanced independent research work and written findings, other than thesis or dissertation work, in a selected area of civil engineering under the supervision and guidance of a Civil & Environmental Engineering faculty member.

**Prerequisite(s):** Permission.

**CIVE 999 DOCTORAL DISSERTATION (1-24 credits)**

Doctoral Dissertation.

**Prerequisite(s):** Admission to doctoral degree program and permission of supervisory committee chair. Not open to nondegree students.

## Communication (COMM)

### Communication Graduate Courses

**COMM 8000 FOUNDATIONS OF COMMUNICATION (3 credits)**

This seminar is designed to introduce graduate students to the Communication discipline. This course will expose students to historical, theoretical, and philosophical perspectives across various contexts and areas of study. In addition to a foundational exploration of the discipline, this course also prepares MA students to conduct research, apply theory to practice, and declare their own expertise in the discipline. Through readings, guest lectures, writing, and discussions, students will work to understand the broad expanse of the discipline.

**Prerequisite(s):** Admission to the School of Communication MA program. Not open to non-degree graduate students.

**COMM 8010 COMMUNICATION RESEARCH METHODS SEMINAR: QUANTITATIVE (3 credits)**

Philosophy of scientific investigation from a quantitative standpoint, including process and products, in comparison to other ways of knowing. Introduces students to quantitative designs and statistical applications for communication research and to data gathering methods appropriate for such designs. Emphasis is placed on preparing, evaluating and writing quantitatively oriented communication research proposals and reports.

**Prerequisite(s):** Graduate majoring in communication or permission of instructor. Not open to non-degree graduate students.

**COMM 8020 COMMUNICATION RESEARCH METHODS SEMINAR: QUALITATIVE (3 credits)**

This course is an introduction to the methodology and practice of qualitative research. Within the course, students will be exposed to research paradigms, approaches to qualitative research, and ways to collect and analyze qualitative data. Students will be required to design and carry out their own qualitative research project.

**Prerequisite(s):** Open to School of Communication Graduate Students only

**COMM 8030 SPECIAL TOPICS (3 credits)**

This variable-content course provides students with in-depth knowledge about various communication topics not covered in other graduate communication classes.

**COMM 8040 SEMINAR IN RHETORICAL CRITICISM (3 credits)**

Students will engage with the history of rhetorical criticism in the field of communication, popular orientations toward criticism over the years, and new directions in methodology. A variety of rhetorical methods and theories as well as rhetorical artifacts will be explored.

**Prerequisite(s):** Graduate admission to School of Communication or permission of instructor. Not open to non-degree graduate students.

**COMM 8046 SOCIAL MEDIA MEASUREMENT AND MANAGEMENT (3 credits)**

Social Media Measurement and Management explores the dynamic development of social media platforms within a journalism and media communication context. Students of journalism, broadcasting, public relations, advertising and marketing will examine theories and best practices of social media interaction and engagement. (Cross-listed with JMC 4040).

**Prerequisite(s):** Good standing as a UNO graduate student.

**COMM 8110 GRADUATE TEACHING ASSISTANT SEMINAR (1 credit)**

This course provides weekly training, assessment, and teaching strategies for graduate teaching assistants within the the School of Communication.

**Prerequisite(s):** School of Communication Graduate Teaching Assistants Only. Not open to non-degree graduate students.

**COMM 8156 ORGANIZATIONAL TRAINING AND DEVELOPMENT (3 credits)**

This course introduces students to the process of designing communication training programs and workshops for a variety of professional settings. It provides students, especially those who are prospective trainers and/or consultants, with experiential and cognitive knowledge about needs assessment, adult learning, communication training research, objectives writing, module design, interactive delivery methods and program evaluation. (Cross-listed with CMST 4150)

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**COMM 8166 COMMUNICATION FOR INSTRUCTIONAL SETTINGS (3 credits)**

This course is designed to help prospective instructors and/or trainers understand and apply the principles of communication in instructional settings (i.e., classrooms, workshops, training programs). It introduces students to the research area in the speech communication discipline called 'Instructional Communication' by covering these five units:

1) Communication Strategies, Objectives, & Content; 2) Student Communication Needs & Expectations; 3) Feedback, Reinforcement, & Discussion; 4) Context, Climate, & Influence; and 5) Teacher Communicator Style, Characteristics, & Behaviors. (Cross-listed with CMST 4160)

**Prerequisite(s):** Graduate Standing.

**COMM 8176 ORGANIZATIONAL COMMUNICATION (3 credits)**

This course will help students understand organizational communication theories, models, and processes; apply these principles in organizational communication speaking exercises; and learn management and leadership skills. (Cross-listed with CMST 4170)

**Prerequisite(s):** Graduate Standing. Not open to non-degree graduate students.

**COMM 8186 COMMUNICATION LEADERSHIP AND POWER AND ORGANIZATIONS (3 credits)**

This course provides theoretical and experiential knowledge about such topics as communication leadership styles and tactics, superior and subordinate interactions, power, ethical responsibilities, and diversity gender issues related to communication leadership. (Cross-listed with CMST 4180)

**Prerequisite(s):** Graduate Standing. Not open to non-degree graduate students.

**COMM 8200 SEMINAR IN POPULAR CULTURE, MASS MEDIA AND VISUAL RHETORIC (3 credits)**

This course studies how discursive meaning is made through established and emerging visual technologies and the impact visual symbol systems are having upon the field of rhetoric in general. Students will investigate how visual technologies, discourse theory, and semiotic theory has intersected with and expanded contemporary rhetorical theories, and they will apply these theories to visual texts. (Cross-listed with ENGL 8760).

**COMM 8220 COMMUNICATION, HEALTH, & DISPARITIES (3 credits)**

Health disparities can be defined as inequalities in health and healthcare experienced by people based on social, economic, and/or environmental characteristics such as race/ethnicity, gender, age, sexual orientation, religion, language, immigration status, disability, socioeconomic status, and geographic location. This course examines the role of communication in combating health disparities from various dimensions. Topics of discussion may include cultural competency and patient centeredness in healthcare provider-patient communication; ehealth interventions and the digital divide; representation/portrayals of marginalized groups in news and entertainment media; and community-based approaches to health campaign design.

**Prerequisite(s):** Two of these are co-reqs: Foundations of Mass Communication (COMM 8470), Qualitative (COMM 8020), Quantitative (COMM 8010), or Rhetorical Criticism (COMM 8040), OR permission of instructor

**COMM 8250 STRATEGIC COMMUNICATION (3 credits)**

This course surveys the topic of strategic communication in business, nonprofit, and government sectors. Focused on management-level evaluation of effective strategic communication, the course prepares students to work in collaboration with strategic communication departments and optionally integrate strategic communication into a research agenda for further graduate study. Content includes determining motivations and reasons for campaigns, understanding relationships between stakeholders, and evaluating outcomes of campaigns.



**COMM 8270 RHETORIC AND SOCIAL MOVEMENTS (3 credits)**

This class will examine the role of rhetoric in movements for social change in contemporary society. Students will investigate different social movements and issues relating to the movements: their history, context, leaders, strategies (including new communication technologies), resistance, and most importantly their rhetorical elements. Students will analyze these variables to understand the rhetorical messages relating to particular movements, e.g. MeToo, BlackLivesMatter, environmental movements, and more.

**Prerequisite(s):** Admission to the graduate program or permission of the instructor.

**COMM 8316 MEDIA & POLITICS (3 credits)**

An in-depth study of the impact of the media on political communication. This course will explore the symbiotic relationship of media and political communication, including the influence of traditional mass media, digital media, and social media on the political communication process. Students will delve into media theories and critically examine the influence of the media on the political communication process. (Cross-listed with JMC 4310).

**COMM 8396 MEDIA ENTREPRENEURSHIP (3 credits)**

Media Entrepreneurship explores new and emerging media business models from local, national and global perspectives. Students learn about and work within the start-up economy and entrepreneurial approaches. The course offers professional and critical perspectives. (Cross-listed with JMC 4390, ENTR 4390).

**Prerequisite(s):** junior standing or instructor permission

**COMM 8516 PERSUASION AND SOCIAL INFLUENCE (3 credits)**

The primary goal of this course is to provide students with a solid grounding in theories, principles, and strategies of persuasion social influence as they apply to everyday contexts in which influence attempts take place. Students should gain familiarity with findings from empirical investigations on persuasion, social influence, and compliance gaining, and will learn about strategies and techniques of persuasion relating. (Cross-listed with CMST 4510)

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**COMM 8576 INTERCULTURAL COMMUNICATION IN THE GLOBAL WORKPLACE (3 credits)**

This course examines the intercultural perspective of organizational communication in a modern global world by focusing on the management of cultural differences in the global workplace. The trend towards a global economy is bringing people of different ethnic and cultural background together. Thus, the development of greater intercultural understanding has become an essential element of global workplace. After taking this course you will be more aware of cultural diversity in an organizational setting and further develop intercultural sensitivity and intercultural competence that will help you adapt to your future organizational life. (Cross-listed with CMST 4570)

**COMM 8580 COMMUNICATION, IDENTITY, AND DIVERSITY (3 credits)**

This course provides a theoretical exploration of the ways social identity may be formed and communicated in diverse contexts. The content of this class builds from communication scholarship on identity, drawing on a variety of approaches, such as rhetorical, intercultural, and interpersonal. It also includes both germinal and contemporary literature regarding social identity, diversity-equity-access-inclusion (DEAI), intersectionality, and power relationships. This class provides students with an academic lens for critically examining how identity is communicated through and to society. Additionally, this course encourages students to explore their personal identity and communicate their experiences of diversity and power in social contexts. Students who complete this class can expect to gain a greater understanding of the complex social dynamics that influence identity and its communicative power in diverse contexts.

**Prerequisite(s):** Admission to the graduate program or permission from the instructor

**COMM 8706 INTERPERSONAL CONFLICT (3 credits)**

This course provides an overview of interpersonal conflict processes. It examines perspectives on conflict, patterns of constructive and destructive conflict, conflict styles and tactics, interpersonal power, negotiation strategies, conflict assessment, and conflict skill development. (Cross-listed with CMST 4700)

**Prerequisite(s):** Communication major

**COMM 8925 MEDIA & CULTURE (3 credits)**

An advanced seminar on the study of media through deconstruction of mass communication content, meaning construction, framing analyses and critical/cultural approaches. (Cross-listed with JMC 3920).

**COMM 8970 GRADUATE PROJECT (3 credits)**

Project Option students must complete a three-hour graduate project written under the supervision of an adviser. A two-member graduate committee (adviser and second committee member) must approve the project.

**Prerequisite(s):** COMM 8010, 8020, 8470, 8570 and student must be admitted to candidacy.

**COMM 8980 INDEPENDENT STUDY (1-3 credits)**

Students conduct independent research under the supervision of an adviser. May be taken multiple times with approval of graduate adviser.

**Prerequisite(s):** Completion of appropriate paperwork; Agreement of supervising faculty; Approval of independent study by supervising faculty, graduate program chair, and the School director's office.

**COMM 8990 THESIS (1-6 credits)**

Independent research project written under the supervision of an adviser.

**Prerequisite(s):** Completion of or concurrent enrollment in final coursework in completion of the MA degree; Approval by Graduate Program Chair. Not open to non-degree graduate students.

**COMM 9400 SEMINAR IN COMMUNICATION & TECHNOLOGY (3 credits)**

A synthesis of speech and mass communication research as it relates to the study of computers and technology. Computer Mediated Communication (CMC) will be emphasized. Students write a research paper appropriate for submission to an academic conference.

**Prerequisite(s):** COMM 8470 or COMM 8570, and COMM 8010 or COMM 8020, or permission of instructor.

## Communication Disorders (CDIS)

### Communication Disorders Graduate Courses

**CDIS 8200 ADVANCED STUDY OF PEDIATRIC SPEECH SOUND DISORDERS (2 credits)**

The purpose of this course is to expand student understanding and application of clinical practices for pediatric speech sound disorders with varying etiologies by building on concepts related to identification, assessment, and treatment introduced at the undergraduate level. Students will learn and apply relevant, theory-driven, and evidence-based practices related to pediatric speech sound disorder management. Assessment and treatment practices will be discussed along with their basis in theoretical perspectives related to motor learning, linguistics, and psycholinguistics. Speech production characteristics associated with cleft palate, childhood dysarthria, and childhood apraxia of speech will be discussed. Students will also address the speech-language pathologist's role in determining speech sound production differences relative to cultural-linguistic diversity and dialectal variations as well as navigate ethical considerations related to clinical decision making.

**Prerequisite(s):** Graduate standing in Speech-Language Pathology



**CDIS 8240 LANGUAGE DISORDERS IN SCHOOL-AGE CHILDREN (3 credits)**

This course focuses on the relationship between spoken and written language and its role in language-based learning disabilities in school-age students. It addresses the characteristics of language and reading impairments; the subtypes of these disorders including dyslexia; and the different diagnostic strategies, assessment tools, and intervention approaches used with them. Various models of language and reading as they relate to development and disorders will be reviewed.

**Prerequisite(s):** Graduate standing in Speech-Language Pathology and a course in later (school age) language development. Not open to non-degree graduate students.

**CDIS 8310 ADVANCED AUDIOLOGY FOR THE SPEECH-LANGUAGE PATHOLOGIST (1 credit)**

The purposes of Advanced Audiology for Speech-Language Pathologists are to ensure all graduate candidates possess fundamental knowledge in the area of audiology and aural rehabilitation. Candidates will competently complete basic audiological screening, and be competent in reading audiological evaluations, understanding and discussing types of hearing loss, and amplification. Instruction will introduce auditory skills, language development for children who are Deaf/hard-of-hearing, and aural rehabilitation programs for children and adults. Topics related to hearing loss including educational considerations and the Deaf culture will be covered. The course will also provide hands-on experiences with audiology-related and aural rehabilitation tasks a speech-language pathologist will encounter in a real-life work setting. These practical experiences will prepare students for encounters they will have in any work setting as a speech-language pathologist.

**Prerequisite(s):** Graduate standing in speech-language pathology

**CDIS 8396 HEARING SCIENCE (3 credits)**

This course is designed for undergraduate majors in speech-language pathology and audiology and for graduate candidates in education of the deaf/hard of hearing. The course will include basic terminology, anatomy and physiology of the hearing mechanism, acoustics and physics of sound, the processes of human hearing, elements of basic hearing measurements, psychophysics. This course will prepare speech-language pathology candidates as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world.

**Prerequisite(s):** Admission to Graduate College

**CDIS 8410 MOTOR SPEECH DISORDERS (3 credits)**

This course is designed to integrate background information from neurophysiology related to motor speech disorders (MSD). The term motor speech disorders refers to speech deficits and differences resulting from injury to the human nervous system. This course will focus on acquired movement-based disorders of speech production that impact one or more of the following subsystems of speech: respiration, phonation, resonance, and/or articulation, including the dysarthrias and apraxia of speech. This course will entail clinical description and characteristics of the impairments as well as on the psychosocial changes in life activities and participation of individuals who live with MSD.

**Prerequisite(s):** SPED 4470/CDIS 4470 or SPED 8470/CDIS 8470 or equivalent; graduate standing in Speech-Language Pathology. Not open to non-degree graduate students.

**CDIS 8420 VOICE DISORDERS (3 credits)**

The purpose of this course is to provide candidates the opportunity to study the disorders of voice in depth so that they are able to effectively orchestrate caseloads including this disorder type. Voice disorders of both organic and functional etiology will be studied. Candidates will have opportunities to conduct instrumental voice evaluation techniques. The disorders will be discussed to cover the range of topics including etiology, symptomology, assessment and diagnosis, prognosis, and treatment, both medical and non-medical.

**Prerequisite(s):** Graduate standing in Speech-Language Pathology. Not open to non-degree graduate students.

**CDIS 8430 FLUENCY DISORDERS (3 credits)**

This course examines the types and causes of rate, rhythm, and stress pattern differences as they relate to child, adolescent, and adult fluency disorders. Theory, current research, and contemporary practice information will constitute the foundation within which to address issues of identification, general assessment, differential assessment, prescription, and the implementation and evaluation of treatment strategies. The course is intended for graduate students in speech-language pathology.

**Prerequisite(s):** Graduate standing in Speech-Language Pathology. Not open to non-degree graduate students.

**CDIS 8440 APHASIA (3 credits)**

The purpose of this course is to provide the requisite knowledge and prepare future clinicians to assess, diagnose, and treat acquired language disorders associated with focal lesions as well degenerative processes to the left hemisphere. Following the World Health Organization - International Classification of Functioning, Disability and Health, known more commonly as ICF (WHO-ICF) framework, students will learn assessment, differential diagnosis as well as management of the aphasia syndromes and primary progressive aphasia. The course is designed to help future clinicians understand the theoretical bases and etiologies of acquired language disorders, the principles and best practices for assessment and intervention. After completing this course, students will understand how to evaluate different types and severities of aphasia and develop goals and plans for intervention based on individual assessment.

**Prerequisite(s):** Admission to the Speech-Language Pathology Graduate Program AND CDIS 8470/4470 (Neurophysiology). Not open to non-degree graduate students.

**CDIS 8460 COGNITIVE-LINGUISTIC DISORDERS RELATED TO DEMENTIA (1 credit)**

The purpose of this course is to provide the requisite knowledge and prepare future clinicians to assess, diagnose, and treat individuals with cognitive-linguistic impairments due to dementia, a general term for loss of memory, language, problem-solving and other thinking abilities that are severe enough to interfere with daily life. Following the World Health Organization - International Classification of Functioning, Disability and Health, known more commonly as ICF (WHO-ICF) framework, students will learn assessment, differential diagnosis as well as management of mild cognitive impairment as well as the different types of dementia. The course is designed to help future clinicians understand the theoretical bases and etiologies of neurocognitive degenerative disorders, the principles and best practices for assessment and intervention. After completing this course, students will understand how to evaluate different types and severities of dementia and develop goals and plans for intervention based on individual assessment.

**Prerequisite(s):** Admission to the Speech-Language Pathology Graduate Program AND CDIS 8470/4470 (Neurophysiology).

**CDIS 8470 NEUROPHYSIOLOGY OF SPEECH AND LANGUAGE (3 credits)**

The purpose of this course is to provide speech-language pathology graduate candidates an introduction to human neuroanatomy and neurophysiology of the speech, language and hearing mechanisms, across the lifespan. Emphasis is placed on developing an understanding of the neurophysiological underpinnings of human communication and its disorders. Ultimately, the course will prepare speech-language pathology graduate candidates as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world.

**Prerequisite(s):** Graduate Standing Speech-Language Pathology Majors in the CDIS 4380 or equivalency. Not open to non-degree graduate students.

**CDIS 8486 RESEARCH METHODS IN COMMUNICATION DISORDERS (3 credits)**

This course will provide candidates with an introductory set of skills to interpret and evaluate research in communication disorders and closely related fields. In addition, this course will provide candidates with basic knowledge regarding research designs and analyses commonly used in communication disorders and related fields. The content addressed in this course will prepare candidates to judiciously evaluate evidence-based practice and apply the scientific method to clinical decision-making. It offers an opportunity to cultivate critical thinking skills imperative to becoming dedicated practitioners, reflective scholars, and responsible citizens who can adeptly meet the ever-evolving challenges of their profession.

**Prerequisite(s):** This course is designed for graduate and undergraduate students majoring in speech-language pathology and is a required course for speech-language pathology candidates.

**CDIS 8490 COGNITIVE-COMMUNICATION DISORDERS RELATED TO RIGHT HEMISPHERE BRAIN DAMAGE & TRAUMATIC BRAIN INJURY (2 credits)**

The purpose of this course is to provide the requisite knowledge and prepare future clinicians to assess, diagnose, and treat individuals with cognitive-communication impairments due to right hemisphere brain damage (RHD) and traumatic brain injury (TBI). Following the World Health Organization - International Classification of Functioning, Disability and Health, known more commonly as ICF (WHO-ICF) framework, students will learn assessment, differential diagnosis as well as management of cognitive-communication disorders related to right hemisphere damage and traumatic brain injury. The course is designed to help future clinicians understand the theoretical bases, etiologies, and the principles and best practices for assessment and intervention.

**Prerequisite(s):** Neurophysiology, CDIS 8470/4470 and Aphasia, CDIS 8440

**CDIS 8500 BASIC CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY (2 credits)**

These courses are designed to provide the speech-language pathology candidate clinicians with diverse clinical experiences prior to full-semester clinical externships in the educational, and medical settings.

**Prerequisite(s):** Graduate standing in Speech-Language Pathology Program, completed any previous semester of 8500 with a B or above, currently maintain at least a 3.0 GPA overall. Permission from program faculty. Not open to non-degree graduate students.

**CDIS 8510 EDUCATIONAL EXTERNSHIP IN COMMUNICATION DISORDERS (4 credits)**

This course is designed to provide the speech-language pathology candidate with experiences of a clinical nature in educational settings. The purpose of the course is to advance the candidate's skills in the evaluation and management of communication and swallowing disorders.

**Prerequisite(s):** Successful completion of "Foundation Block" (CDIS 4550/8556; SPED 8030, 8120 or equivalent) and three semesters of SPED 8500/CDIS 8500 unless otherwise indicated. Permission required. Not open to non-degree graduate students.

**CDIS 8520 MEDICAL EXTERNSHIP IN COMMUNICATION DISORDERS (4 credits)**

This course is designed to provide the speech-language candidate with experiences of a clinical nature in medical settings. The purpose is to advance the candidates' skills in the evaluation and management of communication and swallowing disorders.

**Prerequisite(s):** Three semesters of SPED 8500/CDIS 8500 unless otherwise indicated plus permission. Not open to non-degree students.

**CDIS 8530 SEMINAR IN SPEECH-LANGUAGE PATHOLOGY (3 credits)**

This course is designed to provide intensive discussion of research or problems of current professional interest based on current literature in speech-language pathology. This course will prepare candidates as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world.

**Prerequisite(s):** Graduate standing

**CDIS 8540 AUTISM SPECTRUM DISORDER (2 credits)**

This course is designed to familiarize candidates with the features of, and interventions for, individuals with autism spectrum disorder. The course will emphasize evidence-based practices when utilizing various methodologies for supporting social and communication skills.

**Prerequisite(s):** Co-requisite: CDIS 8560. Admission to the Graduate College. Not open to non-degree graduate students.

**CDIS 8556 SPECIAL NEEDS STUDENTS FROM DIVERSE COMMUNITIES (3 credits)**

The purpose of this course is to study the impact of cultural and linguistic diversity on communication, learning, and behavior. The contrast between what is considered 'normal' language / learning development and in the presence of culturally and linguistically diverse (CLD) P-12 students will receive special emphasis.

**CDIS 8560 AUGMENTATIVE & ALTERNATIVE COMMUNICATION (2 credits)**

This course is designed to introduce students to the nature and process of augmentative and alternative communication (AAC), current theories and models of AAC, basic elements of AAC systems, and contemporary AAC clinical practices and principles. Topics will be examined from educational and rehabilitation perspectives as they relate to assessment, prescription, implementation and evaluation. The course will emphasize practical solutions in AAC for children and adults using both high technology and other less-complex communication strategies. Students will explore high-tech, low-tech, and no-tech options of AAC and gain knowledge of and experience with assessment of clients for AAC needs, prescription of an appropriate level of AAC, practice with implementing various AAC systems, and on-going evaluation of the AAC system's effectiveness with clients.

**Prerequisite(s):** Graduate standing in Speech-Language Pathology program

**CDIS 8570 DYSPHAGIA (3 credits)**

This course is designed to integrate background information from neurophysiology to dysphagia. The term dysphagia refers to swallowing disorders resulting from congenital birth anomalies (i.e., cleft palate, cerebral palsy, etc.) as well as acquired injury to the central nervous system (i.e., stroke, head injury, etc.). This course will introduce candidates to bedside, radiographic, and endoscopic assessment procedures as well as direct, indirect, and medical management techniques of dysphagia. Additionally, this course will provide clinical description and characteristics of swallowing impairments as well as on the psychosocial changes in life activities and participation of individuals who live with dysphagia.

**Prerequisite(s):** SPED 4470/CDIS 4470 or equivalent, graduate standing in speech-language pathology. Not open to non-degree graduate students.

**CDIS 8590 EARLY INTERVENTION: BIRTH TO FIVE (2 credits)**

This course is designed to provide candidates with knowledge about supporting communicative disorders in young children, and their families, within a multicultural and global framework. It will cover assumptions underlying current approaches to the evaluation and treatment in the developing child.

**Prerequisite(s):** CDIS 4420 or equivalent. Admission to Graduate Program in Speech-Language Pathology. Not open to non-degree graduate students.

**CDIS 8680 SPEECH-LANGUAGE GLOBAL INTERPROFESSIONAL CLINICAL EXPERIENCE (3 credits)**

The purpose of this course is to help students develop cultural competency and a practice of cultural humility in providing culturally responsive care. Students will expand their knowledge and skills through cross-cultural experiences focusing on the aspects of speech language therapy treatment. A major focus of the class will be exploration of the role of speech language therapy and collaboration with other health care providers working in an underserved population. Students will engage in cultural exploration providing assessment, therapy and recommendations.

**Prerequisite(s):** Students will apply for the course. Selected students will be given permission for the course. Not open to non-degree graduate students.

**CDIS 8900 SPEECH-LANGUAGE PATHOLOGY COMPREHENSIVE ASSESSMENT (0 credits)**

This zero-credit course is used to assess knowledge and skills for entry-level professional practice. Students enroll in this course in the spring of the second year of the speech-language pathology graduate program. Successful completion of this assessment is required to complete the graduate program. Students will earn a pass or fail for this assessment. The comprehensive assessment meets the summative assessment requirement for the Council on Academic Accreditations (CAA 5.2).

**Prerequisite(s):** Requires departmental approval. Not open to non-degree graduate students.

## Communication Studies (CMST)

### Communication Studies Graduate Courses

**CMST 8136 FAMILY COMMUNICATION (3 credits)**

This course emphasizes the role of communication in family relationships. Theories, models, and research methods will be used to examine the family in various cultures and contexts (e.g., nuclear families, single-parent families, and blended families). Topics that will be covered in this course include: family conflict, family roles, family stories, family stress, family well-being, genograms, marriage, and divorce. (Cross-listed with CMST 4130)

**Prerequisite(s):** Graduate majoring in the School of Communication or permission of instructor. Not open to non-degree graduate students.

**CMST 8196 COMPUTER-MEDIATED COMMUNICATION (3 credits)**

Computer-Mediated Communication addressing emerging issues of virtual communities, identity, civic life and participation, online relationships, collaborative work environments, digital networks, gender race class issues, legal and ethical considerations of technology, and commodification of mediated communication. (Cross-listed with CMST 4190).

**CMST 8536 INTERCULTURAL COMMUNICATION-US (3 credits)**

This course will provide a foundation that leads to Intercultural Communication competence. Specifically, this course is to introduce the concepts of cross-cultural communication. Theory and research are integrated with application and necessary skills are identified and developed.

**CMST 8586 COMMUNICATING RACE, ETHNICITY & IDENTITY (3 credits)**

This is an undergraduate/graduate course that provides students with definitional and experiential knowledge about the origin of racial concepts, theories, and practices, definitions of ethnicity and identity, and the communicative relationship between race, ethnicity, and identity. (Cross-listed with CMST 4580, BLST 4580, BLST 8586)

## Computer Science (CSCI)

### Computer Science Graduate Courses

**CSCI 8000 ADVANCED CONCEPTS IN PROGRAMMING LANGUAGES (3 credits)**

Logic/Declarative programming is an important programming paradigm in which problems are described in terms of the properties they possess. As a result, in this style of programming many algorithmic elements, which explicitly must be articulated when writing programs in other programming languages, can be omitted. Core elements of logic programming play important roles in AI.

**Prerequisite(s):** CSCI 3320; CSCI 3660; CSCI 4220. Not open to non-degree graduate students.

**CSCI 8010 FOUNDATIONS OF COMPUTER SCIENCE (3 credits)**

This is a foundational course for students enrolled in the graduate program in computer science. The objectives are to introduce students to a large body of concepts so that they are better prepared for undertaking the core courses in the graduate program. It is assumed that student would have programmed in a high-level language and have exposure to basic college level mathematical concepts such as logarithms, exponents, sequences, and counting principles.

**Prerequisite(s):** Students are expected to have written programs using a high-level programming language and should understand basic mathematical concepts including exponents, logarithms, sequences, and counting principles. Not open to non-degree graduate students.

**CSCI 8016 INTRODUCTION TO THE THEORY OF RECURSIVE FUNCTIONS (3 credits)**

This is a proof-oriented course presenting the foundations of Recursion Theory. We present the definition and properties of the class of primitive recursive functions, study the formal models of computation, and investigate partially computable functions, universal programs. We prove Rice's Theorem, the Recursion Theorem, develop the arithmetic hierarchy, demonstrate Post's theorem. Introduction to the formal theories of computability and complexity is also given. (Cross-listed with MATH 4010, MATH 8016, CSCI 4010).

**Prerequisite(s):** MATH 2230 or MATH 2030 with a C- or better or CSCI 3660 with a C- or better or instructor's permission.

**CSCI 8040 LARGE SCALE NETWORK ANALYSIS ALGORITHMS (3 credits)**

The course will provide a review of the properties of large complex network systems, such as those occurring in social networks, epidemiology and biological systems. We will discuss algorithms to analyze these properties, their implementations, their stability under information fluctuation and how information spreads through networks.

**Prerequisite(s):** Students should be comfortable w/ programming, have knowledge of data structures, preliminary graph algorithms, & linear algebra. Suggest Prep Courses: CSCI 4150 or CSCI 8156; CSCI 3320; MATH 4050 or Permission. Not open to non-degree graduate students.

**CSCI 8050 ALGORITHMIC GRAPH THEORY (3 credits)**

The overall of the goal is to introduce advanced concepts in graph theory, graph modeling, and graph algorithms and how they can be used to solve a wide range of problems in various application domains. The course introduces students to several applied path algorithms, clustering and partitioning techniques, network flow algorithms, and weighted matching algorithms. Other advanced concepts associated with complex networks include node centralities in graphs and community detection approaches. The course will also introduce students to key classes of graphs with a particular focus on the main classes of Perfect Graphs and their applications in scheduling, chip design, mobile computing, and Biomedical Informatics. (Cross-listed with MATH 8050).

**Prerequisite(s):** CSCI 3320 or CSCI 8325 and MATH 4150 or MATH 8156 or permission of instructor. Not open to non-degree graduate students.

**CSCI 8060 ALGORITHMIC COMBINATORICS (3 credits)**

This course includes classical combinatorial analysis graph theory, trees, network flow, matching theory, external problems, and block designs. (Cross-listed with MATH 8060).

**Prerequisite(s):** MATH 3100, CSCI 3100, MATH 8105 or CSCI 8105 or instructor's permission.

**CSCI 8080 DESIGN AND ANALYSIS OF ALGORITHMS (3 credits)**

The course provides students an understanding of advanced topics in algorithms. Main topics include: growth of functions, asymptotic notation, recurrences, divide and conquer, dynamic programming, greedy algorithms, graph algorithms, and the theory of NP-Completeness. (Cross-listed with MATH 8080).

**Prerequisite(s):** CSCI 3320 or CSCI 8325 or equivalent. Not open to non-degree graduate students.

**CSCI 8105 APPLIED COMBINATORICS (3 credits)**

Basic counting methods, generating functions, recurrence relations, principle of inclusion-exclusion. Polya's formula. Elements of graph theory, trees and searching network algorithms. (Cross-listed with MATH 8105, MATH 3100, CSCI 3100).

**CSCI 8110 ADVANCED TOPICS IN ARTIFICIAL INTELLIGENCE (3 credits)**

An in-depth study of one or more topics selected from: search techniques, knowledge representation, knowledge programming, parallel processing in Artificial Intelligence, natural language processing, image processing, current and future directions, etc. May be repeated with different topics, with permission of adviser.

**Prerequisite(s):** CSCI 4450 or CSCI 8456 or equivalent.

**CSCI 8150 ADVANCED COMPUTER ARCHITECTURE (3 credits)**

This course will provide an in-depth understanding of the key architectural concepts governing the design of state-of-the-art high-performance computers. It will introduce methods that are commonly used to trade-off the various architectural choices to design systems with the desired cost-performance requirements. The course will provide a systems level perspective to design. The emphasis will be on the cache, memory and I/O subsystems, system interconnects leading to distributed shared-memory multiprocessor systems. Multiprocessor clusters based on message passing and high-performance processor architecture will be covered. The course will also provide a brief overview of emerging system architectures including quantum computing and those used to facilitate machine learning applications.

**Prerequisite(s):** CSCI 4350, CSCI 4500 or equivalent with permission of the instructor. Not open to non-degree graduate students.

**CSCI 8156 GRAPH THEORY & APPLICATIONS (3 credits)**

Introduction to graph theory. Representations of graphs and graph isomorphism. Trees as a special case of graphs. Connectivity, covering, matching and coloring in graphs. Directed graphs and planar graphs. Applications of graph theory in several fields such as networks, social sciences, VLSI, chemistry and parallel processing. (Cross-listed with CSCI 4150, MATH 4150, MATH 8156).

**Prerequisite(s):** MATH 2030 or permission of instructor.

**CSCI 8160 INTRODUCTION TO VLSI DESIGN (3 credits)**

Introduction to the principal concepts of integrated circuits layout. Presentation of the hardware foundations, algorithmic mathematical and graph theoretical foundations of circuit layout. Topics discussed in digital design and computer architecture classes are studied at the actual layout design level such as datapath subsystems and array subsystems. Design methodology tools and testing. Hardware descriptions languages.

**Prerequisite(s):** CSCI 3320 (or CSCI 8325), CSCI 3710 and CSCI 4350 (or CSCI 8356). Not open to non-degree graduate students.

**CSCI 8206 NUMERICAL ANALYSIS (3 credits)**

This course involves solving nonlinear algebraic equations and systems of equations, interpolation and polynomial approximation, numerical differentiation and integration, numerical solutions to ordinary differential equations, analysis of algorithms and errors, and computational efficiency. (Cross-listed with CSCI 4200, MATH 4200, MATH 8206).

**Prerequisite(s):** MATH 1970 and MATH 2050 and MATH 2350 with a C- or better or permission of instructor.

**CSCI 8210 ADVANCED COMMUNICATIONS NETWORKS (3 credits)**

Advanced study of communication networks, analysis of communication needs, special problems encountered in different types of networks, efficiency and traffic analysis and emerging hardware software technologies. Detailed "hands-on" study of the TCP/IP networking protocols.

**Prerequisite(s):** CSCI 3550 or 8555 or equivalent. Not open to non-degree graduate students.

**CSCI 8256 HUMAN COMPUTER INTERACTION (3 credits)**

Human computer interaction is concerned with the joint performance of tasks by humans and machines; human capabilities to use machines (including learnability of interfaces); algorithms and programming of the interface; engineering concerns that arise in designing and building interfaces; the process of specification, design, and implementation of interfaces; and design trade-offs. (Cross-listed with CSCI 4250).

**CSCI 8266 USER EXPERIENCE DESIGN (3 credits)**

User experience (UX) design is concerned with the application of user-centered design principles to the creation of computer interfaces ranging from traditional desktop and web-based applications, mobile and embedded interfaces, and ubiquitous computing. This course provides in-depth, hands-on experience with real world application of the iterative user-centered process including contextual inquiry, task analysis, design ideation, rapid prototyping, interface evaluation, and reporting usability findings. (Cross-listed with CSCI 4260, ACMP 4260, HCC 8266).

**CSCI 8300 IMAGE PROCESSING AND COMPUTER VISION (3 credits)**

This course introduces the computer system structures and programming methodologies for digital image processing and computer vision. The course will cover the mathematical models of digital image formation, image representation, image enhancement and image understanding. Techniques for edge detection, region growing, segmentation, two-dimensional and three-dimensional description of object shapes will be discussed. The course will concentrate on the study of knowledge-based approaches for computer interpretation and classification of natural and man-made scenes and objects.

**Prerequisite(s):** CSCI 1620 and CSCI 3320. Not open to non-degree graduate students.

**CSCI 8306 DETERMINISTIC OPERATIONS RESEARCH MODELS (3 credits)**

This is a survey course of deterministic operations research models and algorithms. Topics include linear programming, network programming, and integer programming. (Cross-listed with CSCI 4300, MATH 4300, MATH 8306).

**Prerequisite(s):** MATH 2050 with a C- or better or permission of instructor.

**CSCI 8316 PROBABILISTIC OPERATIONS RESEARCH MODELS (3 credits)**

This is a survey course of probabilistic operations, research models and algorithms. Topics include Markov chains, queueing theory, inventory models, forecasting, and simulation. (Cross-listed with CSCI 4310, MATH 4310, MATH 8316).

**Prerequisite(s):** MATH 2050 and either MATH 4740 or MATH 8746 or STAT 3800 or STAT 8805 all with a C- or better or permission of instructor.

**CSCI 8325 DATA STRUCTURES (3 credits)**

This is a core that will cover a number of data structures such as tree, hashing, priority queues and graphs as well as different algorithm design methods by examining common problem-solving techniques. (Cross-listed with CSCI 3320)

**CSCI 8326 COMPUTATIONAL OPERATIONS RESEARCH (3 credits)**

Survey of computational methods used in the solution of operations research problems. Some topics may include scripting to guide optimization software, constraint programming, heuristics and metaheuristics for optimization, basic machine learning algorithms, and simulation. (Cross-listed with MATH 4320, MATH 8326, CSCI 4320).

**Prerequisite(s):** MATH 3200 or CSCI 1620, and MATH 4300 each with a grade of C- or better or permission of instructor.

**CSCI 8340 DATABASE MANAGEMENT SYSTEMS II (3 credits)**

This course is an in-depth coverage of database management systems. Students will learn important principles of query processing and query optimization, transaction processing, and various database systems architectures. After taking this course, students should also be able to identify useful resources to explore future developments in the area of database management systems.

**Prerequisite(s):** CSCI 4850 or CSCI 8856. Not open to non-degree graduate students.



**CSCI 8350 DATA WAREHOUSING AND DATA MINING (3 credits)**

This course is an in-depth coverage of data warehousing and data mining. This course starts with coverage of data warehousing (an enabling technology for data mining) and covers the entire data mining process and various data mining functionalities in detail. Students will get a chance to practice knowledge learned in the course to complete term projects related to data warehousing and/or data mining. After taking this course, students should also be able to identify useful resources to explore future developments in the area of data warehousing and data mining.

**Prerequisite(s):** CSCI 4850 or CSCI 8856. Not open to non-degree graduate students.

**CSCI 8360 MACHINE LEARNING FOR TEXT (3 credits)**

This course focuses on the fundamental techniques for extraction of various insights from text data which is ubiquitous on the Web, social media sites, emails, news articles, digital libraries, and other sources. The course topics will include concepts and techniques used by search engines to crawl, index, and rank web pages on the Web, machine learning techniques for categorization of news articles into different categories, sentiment and opinion analysis of social media chats, text summarization, and information extraction.

**Prerequisite(s):** Not open to non-degree graduate students.

**CSCI 8366 PRINCIPLES OF SECURE SYSTEM DESIGN (3 credits)**

Contemporary issues in computer security, including sources for computer security threats and appropriate reactions; basic encryption and decryption; secure encryption systems; program security, trusted operating systems; database security, network and distributed systems security, administering security; legal and ethical issues. (Cross-listed with CYBR 4360, CYBR 8366)

**CSCI 8390 ADVANCED TOPICS IN DATA BASE MANAGEMENT (3 credits)**

This course is an in-depth coverage of well-selected topic(s) in recent development of database management systems. Since new developments in DBMS are very diverse, when each time when this course is offered, it will focus on one or more specific topics, and the course can be taken multiple times for credit.

**Prerequisite(s):** CSCI 4850 or CSCI 8856. Not open to non-degree graduate students.

**CSCI 8400 ADVANCED COMPUTER GRAPHICS (3 credits)**

Computer graphics continues to play an important role in computer science. This course covers the mathematical foundations of three-dimensional representation and animation; ray tracing and path tracing rendering methods; using the graphical processing unit (GPU) for real time applications; and concludes with simulation of natural phenomenon.

**Prerequisite(s):** Bachelors degree or permission from the Graduate Program Committee. Not open to non-degree graduate students.

**CSCI 8410 DISTRIBUTED SYSTEMS AND NETWORK SECURITY (3 credits)**

The course aims at understanding the issues surrounding data security, integrity, confidentiality and availability in distributed systems. Further, we will discuss various network security issues, threats that exist and strategies to mitigate them. This course will cover topics in cryptography, public key infrastructure, authentication, hashing, digital signatures, ARP protection, IP and IPSEC, IP Tables, SSL/TLS, firewalls, etc. (Cross-listed with CYBR 8410)

**Prerequisite(s):** CSCI 8366 or equivalent(s). Not open to non-degree graduate students.

**CSCI 8420 SOFTWARE ASSURANCE (3 credits)**

Software assurance is a reasoned, auditable argument created to support the belief that the software will operate as expected. This course is an intersection of knowledge areas necessary to perform engineering activities or aspects of activities relevant for promoting software assurance. This course takes on a software development lifecycle perspective for the prevention of flaws. (Cross-listed with CYBR 8420)

**Prerequisite(s):** CSCI 8836 OR by permission of the Instructor. Not open to non-degree graduate students.

**CSCI 8430 TRUSTED SYSTEM DESIGN, ANALYSIS AND DEVELOPMENT (3 credits)**

This course examines in detail: the principles of a security architecture, access control, policy and the threat of malicious code; the considerations of trusted system implementation to include hardware security mechanisms, security models, security kernels, and architectural alternatives; the related assurance measures associated with trusted systems to include documentation, formal specification and verification, and testing, and approaches that extend the trusted system, into applications and databases and into networks and distributed systems.

**Prerequisite(s):** CSCI 8366 or equivalents, or instructor permission. Not open to non-degree graduate students.

**CSCI 8446 INTRODUCTION TO PARALLEL COMPUTING (3 credits)**

This course is an introduction to parallel computing, that is using multiple processors to execute algorithms. Topics discussed include: classification of parallel computers; shared-memory versus message passing; forms of parallelism; measures of performance; designing parallel algorithms; parallel programming and parallel languages; synchronization constructs; and operating systems for parallel computers. (Cross-listed with CSCI 4440)

**Prerequisite(s):** CSCI 4500, which may be taken concurrently, with C- or better.

**CSCI 8450 ADVANCED TOPICS IN NATURAL LANGUAGE UNDERSTANDING (3 credits)**

The course will provide in depth study of the topics in natural language processing and understanding, such as syntax, lexical and computational semantics, natural language ambiguities and their disambiguation, logical form construction and inference. The course will survey state-of-the-art natural language processing toolkits and knowledge bases that boost the development of modern language processing and understanding applications.

**Prerequisite(s):** CSCI 3320 OR CSCI 3660 OR CSCI 4450. Not open to non-degree graduate students.

**CSCI 8456 PRINCIPLES OF ARTIFICIAL INTELLIGENCE (3 credits)**

An introduction to artificial intelligence. The course will cover topics such as machine problem-solving, uninformed and informed searching, propositional logic, first-order logic, approximate reasoning, temporal reasoning, planning under uncertainty, and machine learning. (Cross-listed with CSCI 4450).

**Prerequisite(s):** CSCI 3320 with C- or better.

**CSCI 8460 FUNDAMENTALS OF ROBOTICS (3 credits)**

This course provides the core principles of robotics and the utilization of control and intelligence methodologies applied to the field of robotics. We will focus on the hands-on creation of software modules within the Robot Operating System (ROS) environment and explore how to integrate artificial intelligence techniques into a fully operational robot control system.

**Prerequisite(s):** Prior completion of undergraduate coursework in CSCI 3320 Data Structures with C- or better AND any course equivalent to this course. Basic proficiency with Python or C++ programming is recommended.

**CSCI 8476 PATTERN RECOGNITION (3 credits)**

Structures and problems of pattern recognition. Mathematics model of statistical pattern recognition, multivariate probability, Bay's decision theory, maximum likelihood estimation, whitening transformations. Parametric and non-parametric techniques, linear discriminant function, gradient-descent procedure, clustering and unsupervised learning, and feature selection algorithms. (Cross-listed with CSCI 4470)

**Prerequisite(s):** CSCI 1620 with C- or better, and MATH 2050. Recommended: MATH 4740/8746 or STAT 3800/8805.



**CSCI 8480 MULTI-AGENT SYSTEMS AND GAME THEORY (3 credits)**

This course covers advanced topics in the area of coordination of distributed agent-based systems with a focus on computational aspects of game theory. The main topics covered in this course include distributed constraint satisfaction, distributed constraint optimization, and competitive and cooperative game theory. (Cross-listed with MATH 8480)

**Prerequisite(s):** CSCI 4450 or CSCI 8456. Suggested background courses: CSCI 4480 or CSCI 8486; CSCI 8080. Not open to non-degree graduate students.

**CSCI 8486 ALGORITHMS FOR ROBOTICS (3 credits)**

This course provides an introduction to software techniques and algorithms for autonomously controlling robots using software programs called controllers. Students will be taught how to program and use software controllers on simulated as well as physical robots. (Cross-listed with CSCI 4480).

**Prerequisite(s):** CSCI 3320 with C- or better. CSCI 4450/8456 is a recommended but not essential pre-requisite.

**CSCI 8500 NUMERICAL LINEAR ALGEBRA (3 credits)**

Topics covered in this course include error propagation, solutions of nonlinear equations, solutions of linear and nonlinear systems by various schemes, matrix norms and conditioning, and computation of eigenvalues and eigenvectors. (Cross-listed with MATH 8500).

**Prerequisite(s):** MATH 1960 and MATH 2050, or permission of instructor. Familiarity with computer programming is assumed.

**CSCI 8506 OPERATING SYSTEMS (3 credits)**

Operating system principles. The operating system as a resource manager; I/O programming, interrupt programming and machine architecture as it relates to resource management; memory management techniques for uni-multiprogrammed systems; process description and implementation; processor management (scheduling); I/O device, controller, and channel management; file systems. Operating system implementation for large and small machines. (Cross-listed with CSCI 4500).

**Prerequisite(s):** CSCI 3710, CSCI 3320/8325, MATH 1950, and CSCI 4350/8356 with C- or better.

**CSCI 8510 NUMERICAL DIFFERENTIAL EQUATIONS (3 credits)**

Topics covered in this course include interpolation and approximations, numerical differentiation, numerical integration, and numerical solutions of ordinary and partial differential equations. (Cross-listed with MATH 8510).

**Prerequisite(s):** MATH 1970, MATH 2350, or permission of instructor. Familiarity with computer programming is assumed.

**CSCI 8520 ADVANCED TOPICS IN OPERATIONS RESEARCH (3 credits)**

Advanced treatment of a specific topic in the area of operations research not available in the regular curriculum. Topics, developed by individual faculty members, will reflect their special interests and expertise. The course may be repeated for credit as topics differ. (Cross-listed with MATH 8520).

**Prerequisite(s):** MATH 4300 or MATH 8306 or CSCI 4300 or CSCI 8306 or permission of the instructor.

**CSCI 8530 ADVANCED OPERATING SYSTEMS (3 credits)**

State-of-the art techniques for operating system structuring and implementation. Special purpose operating systems. Pragmatic aspects of operating system design, implementation and use.

**CSCI 8555 COMMUNICATION NETWORKS (3 credits)**

This course is designed to bring students up to the state of the art in networking technologies with a focus on Internet. It will cover the principles of networking with an emphasis on protocols, implementations and design issues. (Cross-listed with CSCI 3550)

**Prerequisite(s):** (CSCI 3320 or CSCI 8325 with grade of C- or better) AND (CSCI 2240 or CYBR 2250 with grade of C- or better)

**CSCI 8566 NUMBER THEORY & CRYPTOGRAPHY (3 credits)**

An overview of one of the many beautiful areas of mathematics and its modern application to secure communication. The course is ideal for any student who wants a taste of mathematics outside of, or in addition to, the calculus sequence. Topics to be covered include: prime numbers, congruences, perfect numbers, primitive roots, quadratic reciprocity, sums of squares, and Diophantine equations. Applications include error-correcting codes, symmetric and public key cryptography, secret sharing, and zero knowledge proofs. (Cross-listed with CSCI 4560, MATH 4560, MATH 8566).

**Prerequisite(s):** MATH 2230 with a C- or better or MATH 2030 with a C- or better or CSCI 2030 with a C- or better or permission of instructor

**CSCI 8590 FUNDAMENTALS OF DEEP LEARNING (3 credits)**

This course is an introduction to deep learning, a branch of machine learning concerned with the development and application of neural networks. Deep learning trains the machine to learn patterns that it is presented with rather than requiring the human operator to define the patterns that the machine should look for. Deep learning is behind many recent advances in artificial intelligence, such as face recognition, speech recognition and autonomous driving. This course will cover the foundations of deep learning, learning theory, basic/advanced neural networks and problem domains of many selected applications.

**Prerequisite(s):** CSCI 3320 or instructor permission

**CSCI 8610 FAULT TOLERANT DISTRIBUTED SYSTEMS (3 credits)**

This course is to study the theory and practice of designing computer systems in the presence of faulty components. Emphasizes the basics of how faults can affect systems and what is required to mask or compensate for their efforts.

**Prerequisite(s):** Not open to non-degree graduate students.

**CSCI 8620 MOBILE COMPUTING AND WIRELESS NETWORKS (3 credits)**

The objective of the course is to introduce contemporary issues in mobile computing and wireless networks. The course covers the differences between mobile computing and the traditional distributed computing paradigm, impediments of the mobile and wireless environments, problems and limitations due to such impediments, various network layers solutions, location management techniques, mobile IP, wireless LANs, wireless TCP, ad hoc networks, and sensor networks.

**Prerequisite(s):** CSCI 3550 or CSCI 8555. Not open to non-degree graduate students.

**CSCI 8626 3D COMPUTER GRAPHICS (3 credits)**

An introduction to the generation and rendering of 3D scenes using both the GPU and the CPU. The course begins by introducing 3D modeling, shading, and animation in industry-standard 3D software. The course then covers how to code rendering algorithms using both rasterizing (GPU-based) and ray tracing (CPU-based). (Cross-listed with CSCI 4620).

**Prerequisite(s):** This course assumes prior knowledge of C programming, data structures, and linear algebra at the undergraduate level.

**CSCI 8656 INTRODUCTION TO CLOUD COMPUTING (3 credits)**

This course is an introduction to cloud computing. The students will learn about core concepts of cloud computing such as cloud models (IaaS, PaaS, SaaS, etc.), deployment models (public, private, hybrid), cloud infrastructures (compute, networking, storage), cloud services (VMs, serverless, object storage, cache, CDN, etc.), and big-data driven systems. This course will revisit essential topics in CS-related courses such as data structure, operating systems, and distributed systems and show how they are utilized and applied in diverse cloud computing technologies and systems including Hadoop, Spark, and distributed databases. After taking this course, students will have basic knowledge of cloud computing and hand-on experiences with diverse projects (including cloud system demos) that utilize diverse and heterogeneous cloud resources. (Cross-listed with CSCI 4650).

**Prerequisite(s):** Prior experience and background knowledge of networking and operating systems are preferred

**CSCI 8666 AUTOMATA, COMPUTABILITY, AND FORMAL LANGUAGES (3 credits)**

This course presents a sampling of several important areas of theoretical computer science. Definition of formal models of computation and important properties of such models, including finite automata and Turing machines. Definition and important properties of formal grammars and their languages. Introduction to the formal theories of computability and complexity. (Cross-listed with CSCI 4660, MATH 4660, MATH 8666).

**Prerequisite(s):** MATH 2030. Recommended: CSCI 3320/CSCI 8325.

**CSCI 8700 SOFTWARE SPECIFICATIONS AND DESIGN (3 credits)**

A continuation of the study of software engineering with an emphasis on early phases of software development, namely requirements engineering/specification and architectural design. Includes an in-depth study of practices for effective software requirements specification and architectural design, as well as formal specifications of software systems. Related topics such as metrics and support tools are also covered.

**Prerequisite(s):** CSCI 4830 or CSCI 8836. Not open to non-degree graduate students.

**CSCI 8706 COMPILER CONSTRUCTION (3 credits)**

Assemblers, interpreters and compilers. Compilation of simple expressions and statements. Analysis of regular expressions. Organization of a compiler, including compile-time and run-time symbol tables, lexical scan, syntax scan, object code generation and error diagnostics. (Cross-listed with CSCI 4700).

**CSCI 8710 MODERN SOFTWARE DEVELOPMENT METHODOLOGIES (3 credits)**

Designed to introduce students to advanced object technology and other modern methodologies for developing software systems. Intended for graduate students who have mastered the basic concepts and issues of software engineering. Course covers advanced object-oriented software development. The course also covers several offshoots of object technology, including: component-based software engineering, aspect-oriented software development, software product line engineering, service-oriented computing, etc.

**Prerequisite(s):** CSCI 4830 or CSCI 8836.

**CSCI 8760 FORMAL METHODS IN SOFTWARE ENGINEERING (3 credits)**

In the high consequence system domain, a primary objective of any construction technique employed is to provide sufficiently convincing evidence that the system, if put into operation, will not experience a high consequence failure or that the likelihood of such a failure falls within acceptable probabilistically defined limits. Systems for which such evidence can be provided are called high assurance systems. The objective of this course is to examine software-engineering techniques across the development life cycle that are appropriate for high assurance systems. The course will analyze the nature of the evidence provided by various techniques (e.g., does a given technique provide sufficiently strong evidence in a given setting).

**Prerequisite(s):** CSCI 8000 and CSCI 8836 or CSCI 4830

**CSCI 8790 ADVANCED TOPICS IN SOFTWARE ENGINEERING (3 credits)**

The main objective of this course is (1) to introduce advanced topics in software engineering approaches and (2) to provide an overview and in-depth understanding of software development and maintenance techniques. Many well-known software implementation problems, associated programming tools, and analysis techniques are also covered. At the end of this course, the student should be able to apply the practical skills and approaches in solving non-trivial problems in diverse fields of study.

**Prerequisite(s):** CSCI 4830 or CSCI 8836. Not open to non-degree graduate students.

**CSCI 8836 INTRODUCTION SOFTWARE ENGINEERING (3 credits)**

Basic concepts and major issues of software engineering, current tools and techniques providing a basis for analyzing, designing, developing, maintaining and evaluating the system. Technical, administrative and operating issues. Privacy, security and legal issues. (Cross-listed with CSCI 4830).

**CSCI 8856 DATABASE MANAGEMENT SYSTEMS (3 credits)**

Basic concepts of data base management systems (DBMSs). The relational, hierarchical and network models and DBMSs which use them. Introduction to data base design. (Cross-listed with CSCI 4850).

**CSCI 8876 DATABASE SEARCH AND PATTERN DISCOVERY IN BIOINFORMATICS (3 credits)**

This required course for undergraduate bioinformatics majors provides foundational knowledge on database aspects used in the field and an overview of their applications in bioinformatics, biomedical informatics, and health/clinical informatics. The course begins with a brief review of key concepts in computational molecular biology related to database search/development, database management systems, the difference between primary and secondary databases, and bioinformatics-related aspects of modeling and theory in computer science. The major focus is on the multiple challenges and aspects of bio-database development, search, and pattern discovery. The course uses problem-based learning to help students develop database management skills as they apply to high throughput "omics" data, the basics of data management, data provenance and governance, standards, and analysis through KDD-based workflows. This course will also consider the fundamentals of artificial intelligence and machine learning as they pertain to bioinformatics, from the perspective of database storage, I/O, and analysis. (Cross-listed with BIOI 4870)

**Prerequisite(s):** CSCI 3320 and BIOI 3500, or permission of instructor; BIOI 3500 can be taken concurrently. Prior completion of CSCI 4850 is strongly recommended but not required. Not open to non-degree graduate students.

**CSCI 8910 MASTER OF SCIENCE CAPSTONE (3 credits)**

The capstone course is to integrate coursework, knowledge, skills and experimental learning to enable the student to demonstrate a broad mastery of knowledge, skills, and techniques across the Master degree curriculum of Computer Science for a promise of initial employability and further career advancement. The course is designed to be in a student-centered and student-directed manner which requires the command, analysis and synthesis of knowledge and skills. Students may apply their knowledge and skill to a project which serves as an instrument of evaluation. Students are encouraged to foster an interdisciplinary research and cultivate industry alliances and cooperation in this course. This capstone course should be taken only after students have completed at least 3/4 of course requirements for the major.

**Prerequisite(s):** Master's degree of Computer Science with course-only option (program III). Not open to nondegree students.

**CSCI 8920 ADVANCED TOPICS COMPUTER SCIENCE (3 credits)**

An in-depth study, at the graduate level, of one or more topics that are not treated in other courses. May be repeated with different topics with permission of adviser.

**Prerequisite(s):** Permission of instructor; will vary with offering. Not open to non-degree graduate students.

**CSCI 8950 GRADUATE INTERNSHIP IN COMPUTER SCIENCE (1-3 credits)**

The purpose of this course is to provide students with opportunities to apply their academic studies in environments such as those found in business, industry, and other non-academic organizations. The student interns will sharpen their academic focus and develop better understanding of non-academic application areas.

**Prerequisite(s):** Permission of the graduate program chairperson and a minimum grade point average of 3.0 (B), with at most one grade below B, but not lower than C+ for all CS graduate classes. Not open to non-degree graduate students.

**CSCI 8960 THESIS EQUIVALENT PROJECT IN COMPUTER SCIENCE (1-6 credits)**

This course allows a graduate student to conduct a research project in computer science or a related area. The project is expected to place an emphasis on applied, implementations-based, or experimental research. The process for development and approval of the project must include: appointment of supervisory committee (chaired by project adviser), a proposal approved by the supervisory committee, monitoring of the project by the supervisory committee, an oral examination over the completed written product conducted by the supervisory committee, and final approval by the supervisory committee. The approved written project will be submitted to the Office of Graduate Studies by the advertised deadlines.

**Prerequisite(s):** Permission of Graduate Adviser. Not open to non-degree graduate students.

**CSCI 8970 INDEPENDENT STUDY (1-3 credits)**

Under this number a graduate student may pursue studies in an area that is not normally available in a formal course. The topics to be studied will be in a graduate area of computer science to be determined by the instructor.

**Prerequisite(s):** Permission of the Graduate Program Committee. Not open to non-degree graduate students.

**CSCI 8980 GRADUATE SEMINAR (1 credit)**

This course offers an up-to-date coverage of the contemporary and emerging concepts, models, techniques and methodologies, and/or the current research results in the fundamental areas of computer science. Topics to be covered by the course will vary in different semesters.

**Prerequisite(s):** Permission of the Instructor. Not open to non-degree graduate students.

**CSCI 8986 TOPICS IN COMPUTER SCIENCE (3 credits)**

This is a variable topic course in computer science at the senior/graduate level. Topics not normally covered in the computer science degree program, but suitable for senior/graduate-level students can be offered. (Cross-listed with CSCI 4980).

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.

**CSCI 8990 THESIS (1-6 credits)**

A research project, designed and executed under the supervision of the chair and approval by members of the graduate student's thesis advisory committee. In this project the student will develop and perfect a number of skills including the ability to design, conduct, analyze and report the results in writing (i.e., thesis) of an original, independent scientific investigation.

**Prerequisite(s):** Permission of Graduate Adviser. Not open to non-degree graduate students.

**CSCI 9410 ADVANCED TOPICS IN LOGIC PROGRAMMING (3 credits)**

This course will examine some advanced topics in logic programming, in particular logic programming under stable model (or answer set) semantics. Answer set programming is a common name of the field. Formal syntax, semantics, and proofs of correctness for logic programs will be considered. Elements of inductive and Prolog programming will also be introduced. Each advanced topic will be followed by how it has been applied in practice. Advanced applications of logic programming will be covered in detail.

**Prerequisite(s):** CSCI 8000 and doctoral student standing in Information Technology or the permission of the instructor.

**CSCI 9420 INTELLIGENT AGENT SYSTEMS (3 credits)**

This course covers the principles of interaction between agents in multi-agent systems using game theory. Relevant topics studied in this course include competitive games, statistical Bayesian games, cooperative games, and mechanism design. Students will have to implement projects related to the material studied in the course.

**Prerequisite(s):** CSCI 3320 or CSCI 8325 and CSCI 4450 or CSCI 8456. Not open to non-degree graduate students.

**CSCI 9710 METHODS IN SOFTWARE ENGINEERING RESEARCH (3 credits)**

This course provides guidelines on how to conduct research in the field of software engineering by presenting the research methods, classic readings, and development of theories and their application to real life problems. The main emphasis of the course is to provide opportunity for in-depth study of topics such as contemporary methods for software development.

**Prerequisite(s):** CSCI 8836 or equivalent course and doctoral student standing in Information Technology or permission of the instructor. Not open to non-degree graduate students.

**CSCI 9810 RESEARCH FOUNDATIONS IN THEORETICAL COMPUTING (3 credits)**

This course offers an up-to-date coverage of the contemporary and emerging concepts, models, techniques, and methodologies, and/or the current research results in the fundamental areas of theoretic computing. The course will examine advanced research topics in computer science and engineering, including foundations of automata theory, computability, complexity analysis, computational logics and algorithmic analysis, hybrid dynamic systems theory, number theory, adaptation and learning theory, concepts and principles in computational geometry, stochastic processes, and random optimization. Each topic will be discussed with a perspective of research issues and directions. Active student participation in investigation of the research topics, survey of the current state-of-art, and identifying the future research insights is required. Students will take turn presenting their research results on specific topics. Topics to be covered by the course will vary in different semesters.

**Prerequisite(s):** The prerequisites of this course vary depending on the areas to be covered in the semester the course is offered. Good standing in Ph.D. program is required. Permission of the instructor may be required. Not open to non-degree graduate students.

## Computer Science Teacher Education (CSTE)

### Computer Science Teacher Education Graduate Courses

**CSTE 8020 EXPLORING COMPUTER SCIENCE FOR TEACHERS (3 credits)**

This course provides a breadth first introduction to computer science for pre-service and in-service teachers. The Exploring Computer Science curriculum (<http://www.exploringcs.org>) serves as a guiding framework for this course, which introduces domain knowledge and appropriate teaching techniques related to teaching human computer interaction, computational problem solving, web design, programming, data analysis, and artificial intelligence in school environments. The course also covers ethical and social issues in computing along with an overview of computing careers.

**CSTE 8030 COMPUTER SCIENCE PRINCIPLES FOR TEACHERS (3 credits)**

This course introduces pre-service and in-service teachers to the foundational principles of computer science. It aims to help them learn the essential thought processes used by computer scientists to solve problems, expressing those solutions as computer programs. It prepares them to teach the AP CS Principles course (<https://apcentral.collegeboard.org/courses/ap-computer-science-principles>) as defined by the College Board. Students explore several different curricula available through College Board endorsed providers.

**Prerequisite(s):** MATH 1120 or MATH 1130 or MATH 1220 or equivalent with C- or better.

**CSTE 8040 OBJECT ORIENTED PROGRAMMING FOR TEACHERS (3 credits)**

This course provides an in-depth treatment of the fundamentals of object-oriented programming (OOP) in Java programming language environment. Topics include data types and information representation, control structures, classes and objects, methods, encapsulation, and use of introductory data structures to solve real-world problems. Additionally, this course interleaves coverage of OOP content with discussion of common learner misconceptions and teaching strategies/tools that can be employed to aid learners' mastery of this material. This course prepares students to implement the Advanced Placement Computer Science A curriculum in a secondary school setting.

**Prerequisite(s):** CSTE 8020 or CSTE 8030.

**CSTE 8910 CAPSTONE IN CS EDUCATION (3 credits)**

This course will allow graduate students, as an individual or as part of a group, to study and analyze specific problems related to teaching computing in schools. Projects will be concerned with the curriculum and/or instruction of computing and should address a broad scope of application rather than a specific level. (Cross-listed with STEM 8910).

**Prerequisite(s):** The student must have completed at least 21 credit hours in the Masters of CS Education program.

**CSTE 8920 SPECIAL TOPICS IN CS EDUCATION (3 credits)**

This course will cover variable content focusing on CS education topics relevant to PK-12 teachers and based on current research trends. New curricula, tools, assessments, programming languages, or related standards may be covered.

**Prerequisite(s):** Advisor and/or instructor approval.

**CSTE 8960 THESIS EQUIVALENT PROJECT IN CS EDUCATION (1-6 credits)**

This course allows a graduate student to conduct a research project in computing education. The process for development and approval of the project must include: appointment of supervisory committee (chaired by project adviser), a proposal approved by the supervisory committee, monitoring of the project by the supervisory committee, an oral examination over the completed written product conducted by the supervisory committee, & final approval by the supervisory committee. The approved written project will be submitted to the Office of Graduate Studies by the advertised deadlines. Project credits must be completed over two or more academic terms.

**Prerequisite(s):** Completion of required Core courses and approval of advisor.

**CSTE 8970 CS ED INDEPENDENT STUDY (1-3 credits)**

This is a specially designed course taken under the supervision of a graduate faculty member to accommodate the student who has identified a focus of study not currently available in the departmental offerings and who has demonstrated capability for working independently.

**Prerequisite(s):** Permission of the department and graduate faculty member.

**CSTE 8990 THESIS (1-6 credits)**

This course is an independent research project completed under the direction of a thesis advisor and required of all candidates pursuing a Master of Science with Thesis option. Thesis credits must be completed over two or more academic terms.

**Prerequisite(s):** Completion of Required Core Courses and approval of advisor. Not open to non-degree graduate students.

# Construction Engineering (CONE)

## Construction Engineering Graduate Courses

**CONE 816 WOOD/CONTEMPORARY MATERIALS DESIGN (3 credits)**

Design of structural timber, beams, columns, and connections. Introduction to applicable design philosophies and codes. Overview of materials design. Masonry, aluminum, and contemporary materials such as plastics and fiber reinforced systems and composite material groups. Design considerations, cost and constructability analysis. (Cross-listed with CONE 416)

**Prerequisite(s):** CIVE 341

**CONE 817 FORMWORK SYSTEMS (3 credits)**

Design of structural timber, beams, columns, and connections. Introduction to applicable design philosophies and codes. Overview of materials design, masonry, aluminum, and contemporary materials such as plastics and fiber reinforced systems and composite material groups. Design considerations, cost and constructability analysis. (Cross-listed with CONE 417)

**Prerequisite(s):** CONE 416; Pre/Co-req.: CIVE 441

**CONE 821 CONSTRUCTION RISK ASSESSMENT AND MANAGEMENT (3 credits)**

The overall process of hazards risk management (risk identification, risk analysis, risk assessment, risk communication), risk based decision making and risk mitigation. Classification of building stock, defining vulnerability, risk assessment methods, assessing economic losses and cost benefit analysis. Case studies will be used to demonstrate the application of risk management principles/techniques in practice.

**Prerequisite(s):** STAT 3800. Not open to non-degree graduate students.

**CONE 850 SUSTAINABLE CONSTRUCTION (3 credits)**

Sustainable construction and its application to the green building industry. Topics include: the LEED certification process, sustainable building site management, efficient wastewater applications, optimizing energy performance, indoor environmental issues, performance measurement/verification, recycled content and certified renewable materials. (Cross-listed with CONE 450)

**CONE 859 INTRODUCTION TO BUILDING INFORMATION MODELING (3 credits)**

This course instructs CAD users on the effective use of Building Information Model (BIM) for integration of design, document and construction estimate. Topics include: model-based 3D design, file formats, interoperability, and MEP modeling. (Cross-listed with CONE 459)

**Prerequisite(s):** CNST 112, or Graduate standing in AREN, CIVE, CNST or CONE.

**CONE 866 HEAVY AND/OR CIVIL ESTIMATING (3 credits)**

Estimating techniques and strategies for heavy and/or civil construction. Unit pricing, heavy and civil construction takeoffs and estimating, equipment analysis, overhead cost and allocations, estimating software and government contracts. (Cross-listed with CONE 466).

**Prerequisite(s):** CONE 319 and CONE 378 and CONE 485

**CONE 876 PROJECT BUDGETS AND CONTROLS (3 credits)**

The basic systems related to revenues and expenses associated with record keeping of construction contracts. Managerial accounting related to planning and control of construction projects. (Cross-listed with CONE 476, CNST 476).

**CONE 881 HIGHWAY & BRIDGE CONSTRUCTION (3 credits)**

The methods and equipment required in the construction of roads and bridges. Methods and equipment necessary for roads and bridges. Substructure and superstructures, precast and cast-in-place segments, and standard and specialized equipment. (Cross-listed with CONE 481)

**Prerequisite(s):** CONE 319 or CNST 241



**CONE 882 HEAVY AND/OR CIVIL CONSTRUCTION (3 credits)**

History, theory, methods, and management principles of planning and executing heavy and/or civil projects. Emerging and new equipment capabilities. Economical use of equipment and management of costs associated with production. (Cross-listed with CNST 482, CNST 882, CONE 482).

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CONE 883 SUPPORT OF EXCAVATION (3 credits)**

The design and placement of excavation supports according to OSHA requirements and industry standards. A variety of routine to moderately complex support systems. Open excavations, sheet piling and cofferdams. Soil mechanics, lateral loads, hydrology, and pumping methods. (Cross-listed with CONE 483)

**CONE 885 CONSTRUCTION PLANNING, SCHEDULING, AND CONTROLS (3 credits)**

Planning and scheduling a project using the critical path methods (CPM) with computer applications. Project pre-planning, logic networks, precedence diagrams, time estimates, critical path, float time, crash programs, scheduling, short interval schedules, pull planning, and monitoring project activities. (Cross-listed with CNST 485, CNST 885, CONE 485)

**Prerequisite(s):** CNST 378. Not open to non-degree graduate students.

**CONE 895 GRADUATE INTERNSHIP (3 credits)**

Open only to Construction Management graduate students. Participation in a full-time summer internship with an approved Construction Engineering or Construction Management related entity. Includes weekly assignments and a final presentation that are designed to create interaction between the Construction entity and the intern, and associated with the business aspects of the entity. General topics include Business Plans, Marketing, Finance and Budgets, Contracts, Legal Issues and Professionalism. (Cross-listed with CNST 895)

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**CONE 898 SPECIAL TOPICS IN CONSTRUCTION ENGINEERING (1-6 credits)**

Individual and small group investigation of special topics in construction engineering. A signed student-instructor learning contact is required. Topics vary.

**Prerequisite(s):** Master of engineering in construction or related discipline and permission. Not open to non-degree graduate Students.

**CONE 960 PROFESSIONAL PRACTICE (0 credits)**

CONE 0960 is required of CONE majors prior to graduation. The work experience must be pre-approved by the faculty adviser in the CONE department. Work experience in a construction related work area.

**Prerequisite(s):** Senior standing

**CONE 999 DOCTORAL DISSERTATION (1-24 credits)**

None provided

**Prerequisite(s):** Admission to doctoral degree program and permission of supervisory committee chair. Not open to nondegree students.

# Construction Management (CNST)

## Construction Management Graduate Courses

**CNST 811 PROJECT ADMINISTRATION (3 credits)**

Ownership and administration of companies focusing on documentation and specifications, contracts, take-offs, estimating, bidding, bonds, insurance, project management and administration, scheduling, time and cost management, labor law and labor relations, and project safety. (Cross-listed with CNST 411).

**Prerequisite(s):** Junior or Senior standing. Not open to non-degree graduate students.

**CNST 815 MECHANICAL/ELECTRICAL PROJECT MANAGEMENT (3 credits)**

Fundamentals of project management within the mechanical and electrical contracting industry. Codes, contract documents, productivity, coordination, project control and administration, scheduling, safety, and project closeout, from a specialty contracting perspective. (Cross-listed with CNST 415).

**Prerequisite(s):** CNST 305, CNST 306 and CNST 379. CNST 405 and CNST 406 are recommended.

**CNST 820 PROFESSIONAL PRACTICE AND ETHICS (3 credits)**

Examination of professional practice considering the perspectives of designers and the contractors and their respective relationships to society, specific client types, and other collaborators in the design and construction fields. Focus on ethics, professional communication and responsibility, professional organization, office management, environmental stewardship, professional registration, and owner-designer-contractor relationships. (Cross-listed with CNST 420).

**Prerequisite(s):** CNST 378 or CONE 378. Not open to non-degree graduate students.

**CNST 825 ALTERNATIVE PROJECT DELIVERY METHODS (3 credits)**

Historical and current project delivery methods (PDM) are explored. Procurement strategies, contractual arrangements, and compensation methods are also discussed in conjunction with risks, costs, and legal and ethical issues that need to be considered when determining which system is best for a particular project. (Cross-listed with CNST 425)

**Prerequisite(s):** Not open to non-degree graduate students.

**CNST 826 OCCUPATIONAL HEALTH AND SAFETY FOR CONSTRUCTION (3 credits)**

Investigation of occupational health and safety hazards in the construction environment. Accident causation and illness exposure models, construction and safety programs and contract requirements, project safety and health management, special problems in construction safety, OSHA/EPD/ADA regulation and compliance issues, health assessment and monitoring, safe building methods design, toxic substance exposures, abatement methods, and worker training and protection.

**Prerequisite(s):** Permission; open only to students in engineering, construction management, architecture, or other closely related fields

**CNST 834 THE DESIGN-BUILD PROJECT DELIVERY SYSTEM (3 credits)**

The organizational, managerial, ethical and legal principles involved in design-build as a project delivery system. Advantages and disadvantages, growth, merits, and criticism of the design-build system. (Cross-listed with CNST 434)

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CNST 835 DESIGN/BUILD: METHODS AND APPLICATION (3 credits)**

Investigation, documentation, and application of current Design/Build processes and methodology used in commercial construction. Principles and practices of Design/Build as a project delivery system.

**Prerequisite(s):** Permission; open only to students in engineering, construction management, architecture, or other closely related field

**CNST 836 INTENT AND APPLICATION OF INTERNATIONAL BUILDING CODE (3 credits)**

Fundamentals of how to research, interpret, and apply building code requirements to the design and construction of both new and renovated structures. (Cross-listed with CNST 436)

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CNST 840 BUILDING INFORMATION MODELING (BIM) II (3 credits)**

Advance topics in building information modeling, including structural and MEP modeling, 4/5 dimensional construction animations and visualization. Good knowledge of Revit Architectural Modeling and knowledge of construction estimating and scheduling is required before registering in this class. (Cross-listed with CNST 440)

**Prerequisite(s):** CNST 225 and CNST 378.



**CNST 842 HEALTHCARE DESIGN AND CONSTRUCTION (3 credits)**

Introduction to the design and construction of healthcare facilities. Healthcare regulations and standards, infection control, interim life safety measures, code requirements, medical equipment selection and coordination, healthcare design and construction techniques, and best practices will be addressed. Provides guidance in preparation for the Certified Healthcare Constructor credential offered by the American Healthcare Association. (Cross-listed with AREN 8426, AREN 4420, CNST 442).

**Prerequisite(s):** Senior or graduate standing

**CNST 844 CONSTRUCTION SITE SAFETY MANAGEMENT (3 credits)**

Introduction to safety management for project engineers, project managers, safety teams, and company safety officers. Addresses basic accident and injury models, human accident costs, safety behavior, ethical issues in safety, workers' compensation and EMR, job safety analysis (JSA), project site safety audits, safety promotion and training, emergency planning and response, safety management programs and training, and OSHA record-keeping and reporting. (Cross-listed with CNST 444)

**Prerequisite(s):** CNST 241 or CONE 319. Not open to non-degree graduate students.

**CNST 850 SUSTAINABLE CONSTRUCTION (3 credits)**

Application of Leadership in Energy and Environmental Design (LEED) best practices in building procurement and delivery systems. History, theory, and state-of-the-art practices in designing and constructing green buildings. Basic principles required to make the multitude of decisions when designing or constructing a green building. LEED construction practices (emerging practices that are economical, produce esthetically pleasing structures, and are environmentally sound).

**Prerequisite(s):** ARCH major or CIVE major or CNST major. Not open to non-degree graduate students.

**CNST 860 CONSTRUCTION VISUALIZATION AND SIMULATION (3 credits)**

Fundamental knowledge of visualization platforms of buildings and construction. Topics include construction visualization software, basic data structure and programming, interoperability, and building performance simulation.

**Prerequisite(s):** Graduate standing in construction management or related discipline with instructor approval. Not open to non-degree graduate students.

**CNST 879 CONSTRUCTION MANAGEMENT & CONSTRUCTION SYSTEMS (3 credits)**

Quantity survey methods, production rate and cost analysis, bidding, contingency and risk analysis. Computer applications of estimating and research topics. Monte Carlo simulation, Virtual #D, BIM applications relevant to construction estimating and risk analysis.

**CNST 880 PRODUCTIVITY AND HUMAN FACTORS IN CONSTRUCTION (3 credits)**

Motivation and productivity improvement methods for management in typical job environments. Methods to improve working environments in the field and office. Procedures and mechanisms to implement human behavior and ergonomics concepts for enhanced productivity and safety. (Cross-listed with CNST 480).

**Prerequisite(s):** CNST 379 and senior standing. Not open to non-degree graduate students.

**CNST 882 HEAVY AND/OR CIVIL CONSTRUCTION (3 credits)**

History, theory, methods, and management principles of planning and executing heavy and/or civil projects. Emerging and new equipment capabilities. Economical use of equipment and management of costs associated with production. (Cross-listed with CNST 482, CONE 482, CONE 882)

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CNST 883 MANAGEMENT OF LIMITED SCOPE PERMITTING (3 credits)**

Building code permitting process associated with all projects. Phased projects that require one or more limited scope permits prior to receiving the final full construction permit. How to improve coordination and reduce the confusion and risk associated with managing the permitting process. The permitting process that is applicable to both large and small projects and that can be easily adapted and used in all jurisdictions throughout the United States.

**Prerequisite(s):** (ARCH major or CIVE major or CNST major). Not open to non-degree graduate students.

**CNST 885 CONSTRUCTION PLANNING, SCHEDULING, AND CONTROLS (3 credits)**

Planning and scheduling a project using the critical path methods (CPM) with computer applications. Project pre-planning, logic networks, precedence diagrams, time estimates, critical path, float time, crash programs, scheduling, short interval schedules, pull planning, and monitoring project activities. (Cross-listed with CNST 485, CONE 485, CONE 885)

**Prerequisite(s):** CNST 378. Not open to non-degree graduate students.

**CNST 886 CONSTRUCTION MANAGEMENT SYSTEMS (3 credits)**

Application of selected topics in systems analysis (operations research). Simulation, mathematical optimization, queueing theory, Markov decision processes, econometric modeling, neural networks, data envelopment analysis, decision analysis, and analytic hierarchy processes as used in the industry. (Cross-listed with CNST 486).

**Prerequisite(s):** CNST 379. Not open to non-degree graduate students.

**CNST 887 CONSTRUCTION LEADERSHIP AND STRATEGIC PLANNING (3 credits)**

New models of construction leadership for the 21st Century. Application of transformational leadership to strategic planning and marketing in construction contracting. Leadership and strategic problem solving constructs and methods.

**Prerequisite(s):** Permission; open only to students in engineering, construction management, architecture, or other closely related fields

**CNST 888 RESIDENTIAL CONSTRUCTION AND REAL ESTATE DEVELOPMENT (3 credits)**

Application of various strategies to real estate development including community and residential design, planning, site selection, land development, marketing and customer service. Methods used by construction companies to analyze, bid, and market their developments to customers through the preconstruction and bidding process. (Cross-listed with CNST 488)

**Prerequisite(s):** CNST 397.

**CNST 890 MASTERS PROJECT (3 credits)**

First course in a two-course sequence required for the masters degree.

Technical report, technical paper, or portfolio project, culminating in a final document or oral presentation.

**Prerequisite(s):** Permission; admission to the master of engineering degree program with an emphasis in construction. Not open to non-degree graduate students.

**CNST 891 MASTERS PROJECT II (3 credits)**

Second course in a two-course sequence required for the masters degree.

Technical report, technical paper, or portfolio project, culminating in a final document or oral presentation.

**Prerequisite(s):** CNST 890 and permission.

**CNST 895 GRADUATE INTERNSHIP (3 credits)**

Open only to Construction Management graduate students. Participation in a full-time summer internship with an approved Construction Engineering or Construction Management related entity. Includes weekly assignments and a final presentation that are designed to create interaction between the Construction entity and the intern, and associated with the business aspects of the entity. General topics include Business Plans, Marketing, Finance and Budgets, Contracts, Legal Issues and Professionalism. (Cross-listed with CONE 895).

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**CNST 898 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT (1-6 credits)**

Individual or small group study of special topics in construction management. Topic varies. A signed student-instructor learning contract is required. (Cross-listed with CNST 498, CONE 498).

**Prerequisite(s):** Master of engineering in construction management or related discipline and permission.

**CNST 899 MASTER'S THESIS (1-10 credits)**

Master's Thesis.

**Prerequisite(s):** Admission to Masters of Science in Construction degree program and permission of major advisor. Not open to nondegree students

**CNST 993 GRADUATE SEMINAR (1 credit)**

Seminar participation to broaden knowledge of construction engineering and management topics, improve presentation and professional skills, and learn about professional development resources available on campus.

**Prerequisite(s):** Graduate student in Construction. Not open to non-degree graduate students.

**CNST 999 DOCTORAL DISSERTATION (1-24 credits)**

None provided

**Prerequisite(s):** Admission to doctoral degree program and permission of supervisory committee chair. Not open to nondegree students.

## Counseling (COUN)

### Counseling Graduate Courses

**COUN 8006 SPECIAL STUDIES IN COUNSELING (3 credits)**

This course is designed to provide students with contemporary topics and issues in mental health practice offering students a comprehensive understanding of contemporary issues and methodologies in the counseling field. Building on foundational knowledge, topics will be chosen based on the relevant science and practice of counseling, theoretical frameworks, evidence-based practices, and advanced clinical skills essential for competent counseling professionals. Throughout the course students will explore a wide range of topics and emerging trends in the field to prepare them as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world.

**Prerequisite(s):** Must be admitted to the Counseling Program.

**COUN 8010 INTRODUCTION TO COUNSELING (3 credits)**

This is an exploratory course for students entering, or considering entering, the field of professional counseling. The focus is on: 1) the development of the profession of counseling, 2) your own professional and personal development as well as your understanding of what contributes to your development as an effective counselor, and 3) a general overview of specific requirements for successful completion of a master's degree in Counseling at UNO.

**Prerequisite(s):** Undergraduate Degree. Department permit required for non-degree seeking students (based on availability)

**COUN 8016 MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (3 credits)**

This course explores the role that educators and school mental health professionals play in identifying the risk factors and warning signs of children and youth with mental health concerns. Students will understand the risk and protective factors at the individual, family, school, and community level as related to children and youth's mental health. The course will provide an overview of externalizing and internalizing disorders as well as school-based and community-based treatments and interventions. (Cross-listed with COUN 4010, SPED 4010, SPED 8016).

**Prerequisite(s):** Not open to non-degree graduate students.

**COUN 8020 COUNSELING FOR WORK AND WELLNESS (3 credits)**

This course will serve as an introduction to the topics of career counseling, career development, and wellness.

**Prerequisite(s):** Admission to UNO Counseling as degree seeking student; Department permit for non-degree seeking student (based on availability)

**COUN 8030 COUNSELING PRACTICES (3 credits)**

The major purpose of Counseling 8030 is to assist students in skill development as noted in Ivey's Intentional Interviewing and Counseling Model. Candidates practice, develop and improve counseling skills in an environment of professional and constructive criticism. Candidates will continue to develop counseling skills through additional coursework leading to practicum and internship experiences.

**Prerequisite(s):** Open only to students admitted to the UNO Counseling Program; Department permission is required for students with non-degree status; and is based on availability.

**COUN 8040 ETHICAL ISSUES FOR PROFESSIONAL COUNSELORS (3 credits)**

This course examines the ethical, professional, and legal aspects of individual, couple and family counseling including liabilities incurred by the professional. The course addresses the appropriate ethical guidelines as stated by the American Counseling Association (ACA) code of ethics in a participatory format.

**Prerequisite(s):** Open only to students admitted to the UNO Counseling Program; Department permission is required for students with non-degree status; and is based on availability.

**COUN 8050 INTRODUCTION TO PROFESSIONAL SCHOOL COUNSELING (1 credit)**

This is an exploratory course for candidates considering entering the field of professional school counseling. This introductory course is required for candidates majoring in counseling, with a concentration in school counseling. Selected issues underlying the school counseling profession are studied.

**Prerequisite(s):** Admission to the Graduate College and/or the Counseling Department.

**COUN 8100 RESEARCH PROJECT IN COUNSELING (1-3 credits)**

Individual or group study and analysis of specific problems/issues in the field.

**Prerequisite(s):** Admission to Counseling program and permission of instructor. Not open to non-degree graduate students.

**COUN 8110 HUMAN DEVELOPMENT AND PSYCHO-SOCIAL INTERVENTION STRATEGIES (3 credits)**

This course is designed to examine theories of human development covering the lifespan of the individual and the psychosocial interventions appropriate to various phases of the lifespan. The course will emphasize human development as an interactive process involving individuals in a number of contexts; hence human diversity factors (racial ethnic groups, gender, sexual orientation) also will be considered.

**Prerequisite(s):** Open only to students admitted to the UNO Counseling Program; Department permission is required for students with non-degree status; and is based on availability.

**COUN 8150 STUDENT AND STUDENT PERSONNEL WORK IN HIGHER EDUCATION (3 credits)**

An overview of the characteristics of college students and their interaction with campus environmental influences. The impact of student personnel work is considered as it affects personality growth, social development and career planning by college students.

**Prerequisite(s):** Admission to Counseling program. Not open to non-degree graduate students.

**COUN 8200 COUNSELING THEORIES (3 credits)**

This course is designed to examine counseling theories and the historical and geographic influence on counseling theory development.

**Prerequisite(s):** Open only to students admitted to the UNO Counseling Program. Not open to non-degree graduate students.

**COUN 8210 ORGANIZATION & ADMINISTRATION OF SCHOOL COUNSELING PROGRAMS (3 credits)**

The course introduces graduate candidates to an administrative systems approach to organizing comprehensive and developmental school counseling programs for all k-12 students. The American School Counselor Association's (ASCA) National Model for School Counseling Programs provides the foundation for content. Topics include, but are not limited to, school counseling programs: Foundation, Delivery System, Management System, and Accountability domains. Special focus is also placed on developing educational leadership skills, advocacy for k-12 students, and bringing about positive systemic change. Teaching counselor candidates to effectively manage school counseling programs is an important part of our effort to prepare educational leaders.

**Prerequisite(s):** Admission to UNO Counseling Dept. Not open to non-degree graduate students.

**COUN 8220 COUNSELING PRACTICUM (3 credits)**

This course is the first of the clinical application courses of counseling knowledge, techniques, and specialty areas in clinical mental health settings. Candidates practice, develop and improve counseling skills in an environment of professional constructive criticism.

**Prerequisite(s):** Pre-Reqs: COUN 8010, COUN 8030, COUN 8040, COUN 8200, COUN 8280, COUN 8400, COUN 8516, COUN 8520, COUN 8920 Co-Reqs: COUN 8360, COUN 8610, COUN 8800 Registration Reqs: Attend Practicum Orientation; Dept Consent. Not open to non-degree graduate students.

**COUN 8230 APPRAISAL TECHNIQUES IN COUNSELING (3 credits)**

Appraisal Techniques in Counseling includes the history of individual appraisal, the major technical considerations governing assessments, and a survey of measurement devices in the cognitive and affective domains. The course will include uses and implications of standardized and non-standardized assessment devices. Additionally, this course will cover the responsible use and interpretation of ability, aptitude, interest, personality, and career development assessment tools. Whenever it is applicable, a strengths-based, positive psychology approach will be integrated and utilized throughout this course.

**Prerequisite(s):** Admission to UNO Counseling Department as degree seeking student; Department permission for non-counseling/degree seeking student in UNO allied mental health discipline only (based on availability)

**COUN 8250 INTERNSHIP: CLINICAL MENTAL HEALTH COUNSELING (3 credits)**

This course is the first of the clinical applications of knowledge, techniques, and specialty areas in community settings. Students practice, develop and improve counseling skills in an environment of professional constructive criticism. This course is required for all graduate students in counseling who meet the prerequisites.

**Prerequisite(s):** COUN 8220 with grade of B or better; Department Permission. Not open to non-degree graduate students.

**COUN 8260 ADVANCED INTERNSHIP: CLINICAL MENTAL HEALTH COUNSELING (3 credits)**

Field experience in an approved agency program under the supervision of a licensed counselor and university instructor.

**Prerequisite(s):** Completion of COUN 8250 with grade of B or higher. Not open to non-degree graduate students.

**COUN 8270 GROUP TECHNIQUES (1 credit)**

This course is intended to prepare students to effectively incorporate group principles appropriate to various counseling settings including schools, treatment centers, and agencies. This class includes a group experience.

**Prerequisite(s):** Admission to graduate program in Counseling or permission of instructor. Not open to non-degree graduate students.

**COUN 8280 TRAUMA, CRISIS, AND GRIEF COUNSELING (3 credits)**

This course will present approaches to trauma, crisis intervention, and grief counseling which include definitions and characteristics of trauma and crisis, a brief history of trauma and crisis intervention and associated theories/models and a practice of skills for intervention and crisis case management. Topics will include applied therapeutic counseling strategies in general casework and in crisis intervention cases, in particular, which describe actual techniques to alleviate the crisis and trauma. Grief topics will also be explored including counseling theory, techniques and interventions.

**Prerequisite(s):** Admission to UNO Counseling as degree seeking student; COUN 8030, COUN 8200, COUN 8040; Dept permission/graduate status as degree seeking student in allied mental/behavioral health (based on availability). Not open to non-degree graduate students.

**COUN 8306 COUNSELING TECHNIQUES I (1 credit)**

This course will present the counseling process, knowledge of beginning skills development and application of techniques related to a specific approach. Topics may include Adlerian counseling (specified in this syllabus), anger management, play therapy, solution focused, cognition, and other topics as needed. (Cross-listed with COUN 4300).

**Prerequisite(s):** Admission to Counseling program. Not open to non-degree students; must take prior to practicum.

**COUN 8316 COUNSELING TECHNIQUES II (1 credit)**

This course will present the counseling process, knowledge of beginning skills development and application of techniques related to a specific approach. Topics may include Rational Emotive Behavior Therapy (REBT) (specified in the syllabus), anger management, play therapy, solution focused, cognition, and other topics as needed.. (Cross-listed with COUN 4310)

**Prerequisite(s):** Admission to Counseling program; must take prior to practicum. Not open to non-degree students.

**COUN 8330 PRACTICUM FOR SCHOOL COUNSELORS (3 credits)**

This course is the first of the clinical applications to provide the prospective school counselor with supervision in a school counseling setting. Candidates will continue to develop counseling skills and will become immersed in the work of a professional school counselor. Candidates practice, develop and improve counseling skills in an environment of professional and constructive criticism.

**Prerequisite(s):** Instructor Consent; COUN 8030; COUN 8040; COUN 8200; COUN 8210; COUN 8280; COUN 8630; COUN 8650; COUN 8670; COUN 8700; COUN 8740; Grade of B or better in COUN 8030 and COUN 8040. Not open to non-degree graduate students.

**COUN 8360 GROUP THEORY & TECHNIQUES (3 credits)**

This course is intended to prepare students to effectively incorporate group principles appropriate to various counseling settings including schools, clinical mental health treatment facilities, and agencies. This class includes a group experience.

**Prerequisite(s):** Admission as degree seeking student in UNO Counseling Dept and COUN 8030, COUN 8040. Not open to non-degree graduate students.

**COUN 8400 ADVANCED THEORY AND TECHNIQUES IN COUNSELING (3 credits)**

This course introduces students to the basic knowledge and skills necessary to understand and apply counseling techniques related to differential approaches to treatment. Topics may include Solution-Focused, Adlerian, Cognitive-Behavioral (CBT), Dialectical Behavioral (DBT), Motivational Interviewing, and other techniques as deemed to be relevant/appropriate.

**Prerequisite(s):** Admission to UNO Counseling program; Pre-Reqs: COUN 8030; COUN 8200

**COUN 8406 COUNSELING TECHNIQUES III (1 credit)**

This course will assist candidates in developing more systematic integration of previously learned information and skills and the application to specific counseling situations related to various approaches. Topics may include Solution Focused Counseling - SFC (specified in the syllabus), Dialectical Behavioral Therapy, anger management, art therapy, play therapy, solution focused, cognition, and other topics as needed. (Cross-listed with COUN 4400)

**Prerequisite(s):** Admission to Counseling program. Not open to non-degree students.

**COUN 8430 INTERNSHIP IN SCHOOL COUNSELING (3 credits)**

This course is the second of the clinical applications to provide the prospective school counselor with supervision in a school counseling setting. Candidates will continue to develop counseling skills and will become immersed in the work of a professional school counselor. Candidates practice, develop and improve counseling skills in an environment of professional and constructive criticism.

**Prerequisite(s):** Pre-req: COUN 8330. Not open to non-degree graduate students.

**COUN 8440 TRAUMA INFORMED EDUCATION (3 credits)**

This course will present approaches to create trauma-informed classrooms which includes definitions and characteristics of trauma and how it impacts children, a brief history of trauma and associated theories/models, and a practice of skills for intervention in the classroom to support students and their families. Topics include applied teaching strategies which describe research-based techniques to support students with a history of trauma, as well as strategies to recognize signs of secondary trauma and burnout, followed by ways to mitigate them using research-based self-care techniques. (Cross-listed with TED 8290).

**COUN 8450 COLLEGE STUDENT PERSONNEL FIELD EXPERIENCE (1-3 credits)**

This course is designed to provide practical work experience under supervision in various areas within student personnel services.

**Prerequisite(s):** COUN 8030, COUN 8040, COUN 8006, COUN 8150, COUN 8360, COUN 8520. Not open to non-degree graduate students.

**COUN 8460 ADVANCED INTERNSHIP IN SCHOOL COUNSELING (3-6 credits)**

This course is the third of the clinical applications to provide the prospective school counselor with supervision in a school counseling setting.

Candidates will continue to develop counseling skills and will become immersed in the work of a professional school counselor. Candidates practice, develop and improve counseling skills in an environment of professional and constructive criticism.

**Prerequisite(s):** COUN 8330. Not open to non-degree graduate students.

**COUN 8500 CONSULTATION IN PROFESSIONAL COUNSELING (2 credits)**

Instruction in this course is founded upon commitment to the beliefs that individuals are valuable, responsible and capable, and that all human service professionals should work to create the conditions in which people value themselves as human beings and behave accordingly. As reflective decision-makers, such professionals value human potential and purposefully design policies, processes and programs that facilitate the realization of that potential. The counselor learns that consultation and collaboration are first and foremost helping relationships that have as their foundation the dignity and respect of individuals/groups involved. Consultation and collaboration are characterized as problem-solving processes that involve a variety of key decision points. A generic model is provided for students as a "cognitive map" upon which they can reflect when attempting to determine effective practice.

**Prerequisite(s):** Admission to the Counseling Program. Not open to non-degree graduate students

**COUN 8516 TREATMENT ISSUES IN CHEMICAL DEPENDENCY (3 credits)**

This course addresses chemical dependency treatment issues including denial, minimization, relapse and its prevention, resistance, family dynamics, poly-substance abuse, co-occurring disorders, spirituality and the influence of self-help groups. The education will include the clinical treatment needs of individuals suffering from chemical dependency, taking into consideration diversity, gender, culture and lifestyle. (Cross-listed with COUN 4510, SOWK 4510, SOWK 8516).

**Prerequisite(s):** Admission to counseling program or social work programs or permission of instructor. Not open to non-degree graduate students.

**COUN 8520 COUNSELING MULTICULTURAL AND DIVERSE POPULATIONS (3 credits)**

This course will make candidates more aware of the societal context in which counseling takes place and to help prepare candidates for work with persons who are members of populations which require special knowledge and skills of the counselor. Certain special populations will be considered in comparative detail as well as a general information which will emphasize acquiring broader understandings transferable to counseling with any special population.

**Prerequisite(s):** Not open to non-degree graduate students.

**COUN 8610 INTRODUCTION TO MARITAL AND FAMILY THERAPY (3 credits)**

This course is the first of the clinical mental health applications to provide the prospective mental health counselor with instruction in marital and family therapy. Students will continue to develop counseling skills and will become immersed in the work of a professional counselor. Students practice, develop and improve marital and family counseling skills in an environment of professional and constructive peer feedback.

**Prerequisite(s):** Admission to UNO Counseling program; COUN 8030, COUN 8200, COUN 8040. Not open to non-degree graduate students.

**COUN 8620 SURVEY OF ISSUES IN SCHOOL COUNSELING (2 credits)**

This course is designed to provide school counselors with information on topics that are current and relevant to secondary school settings. It will allow candidates and practicing counselors the opportunity to study and evaluate what activities school counselors are currently engaged in and consideration of strategies to deal with students and families.

**Prerequisite(s):** Admission to counseling program. Not open to non-degree graduate students.



**COUN 8630 FOUNDATIONS AND ISSUES IN SECONDARY SCHOOL COUNSELING (3 credits)**

This course is designed to introduce the history, current ASCA (American School Counselor Association) model, and the role of a professional school counselor; and to provide information on and practice with topics that are current and relevant to secondary school settings.

**Prerequisite(s):** Admission to UNO Counseling Dept. Not open to non-degree graduate students.

**COUN 8650 ISSUES IN ELEMENTARY AND MIDDLE SCHOOL COUNSELING (3 credits)**

This course is intended to prepare students to effectively implement an elementary and/or middle school counseling program. School counselors in training will develop awareness and skill sets through an overview of the unique issues, approaches, systems, and practice of elementary and middle school counseling.

**Prerequisite(s):** Admission to UNO Counseling Department. Not open to non-degree graduate students.

**COUN 8656 TRANSITION PLANNING (3 credits)**

Curriculum oriented for teachers and related professionals to work with the career development and transition of individuals with disabilities within a multicultural and global society. Includes information for elementary through adulthood with emphasis on transition from high school to community living.

**Prerequisite(s):** EDUC 2510 or SPED 1500. Not open to non-degree graduate students.

**COUN 8670 CAREER DEVELOPMENT POST-SECONDARY TRANSITIONS (3 credits)**

This course is an introduction to career counseling and career development and post-secondary planning in P-12 schools. This course is required for all graduate students seeking a masters degree in counseling with a concentration in school counseling.

**Prerequisite(s):** Admission to UNO Counseling Dept

**COUN 8686 MEDICAL AND PSYCHOSOCIAL ASPECTS OF SUBSTANCE USE DISORDERS (3 credits)**

This course introduces students to substance use disorders and their impact on the individual, family, and society. It covers psychopharmacology, alcohol and drug interactions, drug classifications, theories of substance use disorders, various models of treatment, vulnerable populations, and ethical and legal issues. (Cross-listed with SOWK 4680, SOWK 8686, COUN 4680).

**Prerequisite(s):** Admission to counseling program or social work program or permission of instructor.

**COUN 8696 ASSESSMENT AND CASE MANAGEMENT IN SUBSTANCE USE DISORDERS (3 credits)**

This course focuses on assessment of clients and their environment, and diagnosis and referral for substance use disorder treatment. Emphasis is given to assessment instruments, treatment levels, treatment planning, case management, and social justice. (Cross-listed with COUN 4690, SOWK 4690, SOWK 8696).

**Prerequisite(s):** Admission to counseling program or social work program or permission of instructor.

**COUN 8700 CHILD AND ADOLESCENT COUNSELING (3 credits)**

This course is an introduction to counseling children and adolescents and will examine the theories, techniques, professional settings, cultural, and ethical/legal issues associated with counseling children and adolescents in a diverse society. Although diagnosis of mental disorders will be discussed, the course is designed to build competencies in counseling children and adolescents, with specific attention to social, developmental, and behavioral issues across professional settings.

**Prerequisite(s):** Admission to UNO Counseling Department; COUN 8030 or Department Permission. Not open to non-degree graduate students.

**COUN 8740 SCHOOL COUNSELING GROUPS (3 credits)**

This course is designed to provide the school counselor candidate with a focused study of small group counseling and enrichment programs in schools.

**Prerequisite(s):** Instructor Consent; Documented completion of group experience. Not open to non-degree graduate students.

**COUN 8750 SCHOOL COUNSELING GROUPS & ENRICHMENT PROGRAMS (2 credits)**

This course is intended to prepare students to effectively incorporate small group design, implementation, and assessment as part of a school counseling program. Candidates will develop small group counseling skills and strategies for enrichment program development and delivery.

**Prerequisite(s):** Counseling Major. COUN 8030 and COUN 8270 and COUN 8406 or permission. Not open to non-degree graduate students.

**COUN 8756 MID-LIFE, CAREER CHANGE, PRERETIREMENT PLANNING (3 credits)**

This course is designed to involve candidates in the exploration of the developmental tasks of mid-life, myths and realities related to career change as well as the implication of preretirement planning. Factual information, as well as model examination and evaluation are presented to aid the candidate in becoming better equipped to understand some of the forces which affect the well-being of middle aged persons as they prepare for the later years. (Cross-listed with GERO 4750 and GERO 8756)

**Prerequisite(s):** Not open to non-degree graduate students.

**COUN 8800 CLINICAL MENTAL HEALTH COUNSELING (3 credits)**

This course is an introduction to the specialization of clinical mental health counseling. The course content examines the historical, philosophical, educational, ethical, and psychological concepts and foundations of clinical mental health counseling. Additionally, the course will explore key public and private professional settings and programs within the clinical mental health paradigm, professional advocacy and leadership, and the personal and professional skills and traits expected of professional counselors.

**Prerequisite(s):** Not open to non-degree graduate students.

**COUN 8810 LAW AND ETHICS IN HIGHER EDUCATION AND STUDENT AFFAIRS (3 credits)**

This introductory course is designed to ground future student affairs practitioners in the guiding ethical and legal standards and principles of higher education administrators and student affairs professionals. The course will examine ethical and legal principles through evidence-based readings, discussion/lecture, case studies, exams, and projects. The course will also challenge students to examine their personal values and beliefs and their potential influence on future decision making responses as a student affairs professional.

**Prerequisite(s):** Admission to the UNO Counseling Department or department permission.

**COUN 8820 CRISIS AND EMERGENCY MANAGEMENT IN HIGHER EDUCATION (3 credits)**

This course is designed to provide future student affairs professionals with an understanding of the role of higher education institutions respond and adapt to crises that affect institutional well-being and the well-being of faculty, staff, and students. The course will feature content on crisis and emergency management theory and policy-as well as their implications on the well-being of the institution and key stakeholders (i.e., administrators, faculty, staff, students, community, alumni). Specific focus will be given to examining the specific role of the student affairs professional in the design, implementation, and assessment of crisis and emergency management policy and procedures.

**Prerequisite(s):** Admission to the UNO Department of Counseling and/or department permission



**COUN 8830 CURRENT ISSUES IN HIGHER EDUCATION AND STUDENT AFFAIRS (3 credits)**

This course involves a detailed exploration of current events and issues related to Student Affairs and Higher Education. The higher education ecological environment will be explored and issues pertaining to students will be investigated within the context of the current higher educational landscape. Finally, the college campus's social, political, and physical landscapes will be discussed and current events facing student affairs and higher education professionals will be examined in order to provide students with information on conflicting perspectives related to relevant issues across academia and higher education as a whole.

**Prerequisite(s):** Admission to the UNO Counseling Department and/or department permission

**COUN 8850 THE COLLEGE STUDENT EXPERIENCE (3 credits)**

This course will examine the personal, academic, and psychosocial, and institutional variables common to the experience of students in public and private institutions of higher education in the United States.

**Prerequisite(s):** Full admission to the UNO Counseling Department and/or permission from the Counseling Department Chair.

**COUN 8920 TREATMENT PLANNING AND THE DSM (3 credits)**

This course is designed to orient students to the stages of treatment planning and use of the DSM-5 as a part of the treatment process in mental health settings. The course will examine the stages of treatment planning and offer opportunities to integrate counseling theories into practice. Factors such as psychopathology/pharmacology, ethics, and human diversity will be considered.

**Prerequisite(s):** Not open to non-degree graduate students.

**COUN 8930 HISTORY OF HIGHER EDUCATION AND STUDENT AFFAIRS (3 credits)**

This course will examine a range of topics relevant to understanding and working in higher education institutions. Specific topics will include the purpose of higher education, accessibility and student diversity issues, financial and legal factors, extracurricular activities, and issues related to faculty and staff experiences.

**Prerequisite(s):** Full admission to the UNO graduate program in Student Affairs in Higher Education or permission from Counseling Department Chair

**COUN 8940 DIVERSITY AND WELLNESS ISSUES IN HIGHER EDUCATION (3 credits)**

This course is an exploration of holistic wellness and of power, privilege, social identities, social justice theories and multicultural issues and practices within the context of higher education. We begin by offering foundational definitions of terminology used throughout the course and delve into understanding systems of oppression, privilege, power, and activism through a holistic wellness lens. We then explore and discuss specific social identities, returning again to think about identity through a social justice lens.

**Prerequisite(s):** Full admission to the UNO Counseling Department and/or permission from the Counseling Department Chair. Not open to non-degree graduate students.

**COUN 8950 ORGANIZATION, ADMINISTRATION, AND LEADERSHIP IN HIGHER EDUCATION (3 credits)**

This course will provide an analysis of leadership, management, and organizational theory and practice in US higher education with particular emphasis on student affairs/student development. An examination of current practices of management will include human, fiscal, and physical resource management. This course is required for all students who are seeking a master's degree (M.S.) in Student Affairs in Higher Education.

**Prerequisite(s):** Full admission to the UNO Counseling Department and/or permission from the Counseling Department Chair.

**COUN 8980 DIGITAL LEARNING: POLICY, PROGRAMMING, & SYSTEMS (3 credits)**

This course is an exploration of digital learning organizational structures within the context of higher education. We begin by offering foundational definitions of terminology used throughout the course and delve into understanding how digital learning fits within the broader context of college and university operations. We then explore and discuss strategies for understanding relevant policies, technology systems and wrap-around support services to ultimately engage and retain digital learners in pursuit of post-secondary education.

**Prerequisite(s):** Admission to UNO Department of Counseling and/or department permission.

**COUN 8986 COUNSELING SKILLS IN GERONTOLOGY (3 credits)**

This course is intended to help develop basic counseling skills for application in gerontology. (Cross-listed with GERO 4980, GERO 8986).

**Prerequisite(s):** Not open to non-degree graduate students.

**COUN 8990 THESIS (1-6 credits)**

To develop the candidate's ability to carry out accepted procedures associated with the research process.

**Prerequisite(s):** Approval of the Thesis Review Committee and permission of student's thesis chairperson. Not open to non-degree graduate students.

## Criminology and Criminal Justice (CRCJ)

### Criminology and Criminal Justice Graduate Courses

**CRCJ 8010 NATURE OF CRIME (3 credits)**

This course provides an overview of the major dimensions of crime in the U.S. Content areas included are the epidemiology of crime, the costs of crime and typologies of crime and criminals.

**Prerequisite(s):** Admission to UNO Graduate College.

**CRCJ 8020 SEMINAR IN ADMINISTRATION OF JUSTICE (3 credits)**

This course is designed to provide students with a critical understanding of responses to crime. Particular emphasis is placed on theory and research bearing upon the effectiveness of the policies and strategies of the principal institutions of the criminal justice system - the police, courts and corrections. Additionally, philosophical and practical matters pertaining to "justice" and "fairness" in the administration of the criminal law are explored.

**Prerequisite(s):** Admission to UNO Graduate College.

**CRCJ 8030 CRIMINAL JUSTICE RESEARCH THEORY AND METHODOLOGY (3 credits)**

Research theory and methodology in the social sciences as applicable to criminal justice; preparation of research designs, conceptual models; sampling procedures; and development of individual research papers.

**Prerequisite(s):** Admission to UNO Graduate College.

**CRCJ 8040 SEMINAR IN POLICE AND SOCIETY (3 credits)**

This course is designed to explore the role of the police in American society. Attention is given to the origins of policing, the nature of police organizations and police work, and patterns of relations between the police and the public. The values of a democratic society as they affect the law enforcement role are discussed.

**Prerequisite(s):** Admission to the graduate program in Criminology and Criminal Justice; or admission to the UNO graduate program and permission of instructor.

**CRCJ 8050 SEMINAR IN CORRECTIONS (3 credits)**

This course is designed to give an analytical perspective to the history, development, implementation and future of critical issues in the field of corrections. Primary focus will be directed toward an exploration of the various theoretical approaches to corrections and the research intended to support or refute these perspectives.

**Prerequisite(s):** Admission to graduate program in Criminology and Criminal Justice; or admission to UNO graduate program and permission of instructor.

**CRCJ 8060 SEMINAR IN THE CRIMINAL COURT SYSTEM (3 credits)**

This course is designed to provide a social science perspective on the role of the courts in the criminal justice system. The ideals of the system will be compared with actual functioning, and court reform programs and proposals will be critically examined.

**Prerequisite(s):** Admission to Criminology and Criminal Justice graduate program; or admission to UNO graduate program and instructor permission.

**CRCJ 8070 SEMINAR IN CRIMINAL LAW AND PROCEDURE (3 credits)**

This course is designed to examine substantive criminal law as the basis of social control in our country. Contemporary issues such as the insanity defense, decriminalization of so-called victimless crimes, sexual assault and abortion, and current proposals to assist victims of crimes will be among the topics explored. In addition, current criminal procedure problems relating to right to counsel, search and seizure and interrogation will be examined.

**Prerequisite(s):** Admission to graduate program in Criminology and Criminal Justice; or admission to UNO graduate program and permission of instructor.

**CRCJ 8080 SEMINAR IN JUVENILE JUSTICE (3 credits)**

An inquiry in the social ramifications of the entire juvenile delinquency process including labeling, detention, incarceration and tolerance. Pre- and post-adjudicatory issues are dealt with as well as a realistic perspective given to delinquency prevention strategies.

**Prerequisite(s):** Admission to UNO graduate program.

**CRCJ 8090 SEMINAR IN THEORETICAL CRIMINOLOGY (3 credits)**

A study of the etiology of crime as a social phenomenon and an objective analysis of the historical influences and thought which molded its development into an accepted contemporary science.

**Prerequisite(s):** Admission to graduate program in criminology and criminal justice; or admission to UNO graduate program and instructor permission.

**CRCJ 8100 CRIMINAL JUSTICE ORGANIZATION, ADMINISTRATION AND MANAGEMENT (3 credits)**

This course will deal with issues in the organization and administration of modern justice agencies. The students will be exposed to theories, concepts, and issues relating to the administration and organization of justice agencies.

**Prerequisite(s):** Admission to the graduate program in Criminology and Criminal Justice; or admission to UNO graduate program and permission of instructor.

**CRCJ 8110 VICTIMOLOGY (3 credits)**

The Victimology seminar provides an overview of key research areas on prevalence, predictors, and consequences of various forms of victimization. By the end of the course, students will develop a critical understanding and appreciation of the development and current state of theories of victimology, measurement of different types of victimization, and quantitative and qualitative results that have been used to inform research in the field. Furthermore, students will learn how to critically analyze and interpret primary research regarding victimization.

**Prerequisite(s):** Admission to UNO graduate program.

**CRCJ 8120 RACE, CRIME AND INJUSTICE (3 credits)**

This course examines inequities in the context of the cumulative effects of biases in the criminal justice system. Students learn how macro-structural conditions, community violence, depletion of male role models as the result of incarceration, and adversarial contacts with police can negatively impact young children residing in some lower socio-economic communities of color as well as increase their likelihood of early contact with the juvenile justice system.

**Prerequisite(s):** Admission to Criminology and Criminal Justice graduate program; or admission to UNO graduate program and permission of the instructor.

**CRCJ 8130 SEMINAR IN WOMEN AND CRIMINAL JUSTICE (3 credits)**

This course focuses on the experiences of women in the criminal justice system. It will cover the history of criminological theory on women, application of mainstream criminological theory to women, and women as offenders, victims, and professionals in the criminal justice system.

**Prerequisite(s):** Admission to Criminology and Criminal Justice graduate program; or admission to UNO graduate program and instructor permission.

**CRCJ 8136 SOCIOLOGY OF DEVIANT BEHAVIOR (3 credits)**

This course is designed to investigate the etiology of many forms of norm-violating conduct. Emphasis will be placed on rule-breaking behavior as defined in the criminal statutes. (Cross-listed with CRCJ 4130).

**Prerequisite(s):** Admission to Criminology and Criminal Justice graduate program; or admission to UNO graduate program and instructor permission.

**CRCJ 8180 CRIMINAL JUSTICE INTERNSHIP (3 credits)**

This course is designed to provide supervised individualized learning experiences in a selected criminal justice agency. The principal objective of the internship is to provide students with the opportunity to apply theoretical and methodological principles acquired in graduate courses to the analysis of problems in local criminal justice agencies.

**Prerequisite(s):** Admission to graduate program in Criminology and Criminal Justice, successful completion of 15 hours of graduate work, and permission of instructor. Not open to non-degree graduate students.

**CRCJ 8190 INDEPENDENT STUDY (1-3 credits)**

Individual projects in research, literature review or creative production which may or may not be an extension of course work. The work will be supervised and evaluated by departmental graduate faculty members.

**Prerequisite(s):** Admission to graduate program at UNO, and permission of instructor.

**CRCJ 8210 PROGRAM EVALUATION AND POLICY ANALYSIS (3 credits)**

This course is a survey of program evaluation and policy analysis techniques. The focus is on theoretical foundations of the Criminal Justice policy process, program development and implementation, research designs specific to program evaluation and policy research, and methodological techniques commonly used to evaluate criminal justice programs and policies.

**Prerequisite(s):** Admission to doctoral program in Criminology and Criminal Justice; or admission to graduate program at UNO and CRCJ 8030; or instructor permission.

**CRCJ 8230 TERRORISM (3 credits)**

A course devoted to an exploration and analysis of contemporary special problems in the broad spectrum of law enforcement and corrections.

**CRCJ 8300 COMMUNITIES AND CRIME (3 credits)**

This course is designed to provide an analytical perspective to the meaning of community, theories that explain community-level crime, and police decision-making at the community level. The primary focus will be directed toward an exploration of the various theoretical approaches to explaining community-level crime, with a special emphasis on police action. This course will enable students to become proficient in the topic of community-level theories of crime and determine whether communities perpetuate or prevent criminal behavior.

**Prerequisite(s):** Admission to a Criminology and Criminal Justice graduate degree program, or UNO SCCJ Graduate Program Coordinator permission. Not open to non-degree graduate students.

**CRCJ 8356 COMMUNITY-BASED CORRECTIONS (3 credits)**

This course is intended for advanced students with a special interest in the correctional process as applied in a community setting. It is designed to focus on innovative community-based strategies for dealing with the offender as well as the traditional processes of probation and parole.

**Prerequisite(s):** Admission to Criminology and Criminal Justice graduate program; or admission to UNO graduate program and instructor permission.

**CRCJ 8400 INTIMATE PARTNER VIOLENCE (3 credits)**

This course examines the complex nature and dynamics of intimate partner violence (IPV). The course begins with a general presentation of IPV, such as definitions, characteristics, and the cycle of IPV. Then, theories of IPV are presented and various sources of IPV data and measurement issues are discussed. The majority of the course focuses on the historical development/evolution and current response of the criminal justice system to IPV including law enforcement response, the use of protection orders, domestic violence courts, and batterer intervention treatment programs. Additionally, the course examines "special topics" regarding IPV including teen dating violence, intimate partner homicide, and IPV within criminal careers.

**Prerequisite(s):** Admission to a UNO graduate degree program, or permission of the UNO School of Criminology and Criminal Justice Graduate Program Coordinator. Not open to non-degree graduate students.

**CRCJ 8430 HUMAN TRAFFICKING (3 credits)**

This course is designed to provide students with a systematic introduction to the study of human trafficking. Students will learn about the prevalence, predictors, and consequences of human trafficking. Additionally, students will develop a critical understanding and appreciation of the development and current state of theories, measurement, and quantitative and qualitative results that can be used to inform our understanding of the nature of these events, the victims who are harmed, the individuals who facilitate these crimes, and identification and response initiatives.

**Prerequisite(s):** Admission to a UNO graduate degree program, or UNO SCCJ Graduate Program Coordinator permission. Not open to non-degree graduate students.

**CRCJ 8450 SEXUAL VIOLENCE (3 credits)**

This course will examine the complicated nature and dynamics of sexual violence (SV). The course will begin with a general presentation of sexual violence, such as definitions and the nature, characteristics, and extent of SV. We will also consider the impact of doing "sexual violence" work on criminal justice and victim service practitioners (e.g., vicarious trauma) and the importance of self-care. Next, various tools to measure SV, sources of SV data, and measurement issues will be discussed. Then, we will move on to the major focus of this class - the historical development and evolution of different legislative, criminal justice system, and victim service system responses to sexual violence. Finally, we will examine some of the responses to sexual violence that have been generated outside of formal systems of care.

**Prerequisite(s):** Admission to the University of Nebraska at Omaha Graduate School

**CRCJ 8516 VIOLENCE (3 credits)**

This course is a survey of the nature and extent of violence. The focus is on patterns of violence across social groups, the causes and correlates of violence and violent behavior, and programs/policies geared toward violence prevention and reduction. Also of interest is the relationship between theory and violence research.

**Prerequisite(s):** Upper-division CRCJ major; CRCJ minor; or CRCJ 1010 and jr/sr standing.

**CRCJ 8800 SPECIAL PROBLEMS IN CRIMINAL JUSTICE (3 credits)**

A course devoted to an exploration and analysis of contemporary special problems in the broad spectrum of criminal justice philosophy. This course looks at philosophical issues related to social control. The purpose of this course is to foster a deeper understanding of the reasons, justifications, and problems related to societal approaches to the control of its citizens.

**Prerequisite(s):** Admission to Criminology and Criminal Justice graduate program; or UNO graduate student and permission of instructor.

**CRCJ 8850 RISK/NEEDS ASSESSMENT (3 credits)**

This course is designed to provide students with advanced knowledge and understanding risk and needs assessment used in case management and classification within the criminal justice system and related social services.

**Prerequisite(s):** Admission to graduate program in criminology and criminal justice; or, instructor permission.

**CRCJ 8950 STATISTICAL APPLICATIONS IN CRIMINAL JUSTICE & PUBLIC ADMIN (3 credits)**

This is a required course which provides a foundation for the use of statistical methods in criminal justice and public affairs research. It will review fundamentals of research, showing the interplay between the theory, the research, the statistical method, and the interpretation.

**Prerequisite(s):** Admission to UNO Graduate college.

**CRCJ 8970 CAPSTONE PROJECT IN CRIMINOLOGY AND CRIMINAL JUSTICE (3 credits)**

The Capstone Project offers each student the opportunity to demonstrate mastery of the theory and practice of Criminology and Criminal Justice by applying the knowledge and skills gained in the Master of Science program to a project of the student's choice. This involves completing a project report reflecting the cumulative knowledge gained from these experiences. This class is intended only for students who are completing their Master of Science degree in Criminology and Criminal Justice.

**Prerequisite(s):** Admission to Criminology and Criminal Justice MS program, and completion of a minimum of 24 credit hours; or permission of Masters Program Coordinator. Not open to non-degree graduate students.

**CRCJ 8990 MASTERS THESIS (1-6 credits)**

The thesis is required for all students in the MA program. It provides students with an opportunity to integrate theories, concepts, and aspects of the criminology and criminal justice literature with methods and techniques for conducting research, through the completion of an original research project. The thesis project should constitute original research and is conducted under the supervision of a Masters Thesis Committee.

**Prerequisite(s):** Admission to the MA program in Criminology and Criminal Justice; and, CRCJ 8010, CRCJ 8020, CRCJ 8030, CRCJ 8950 and 6 other 8000+ CRCJ courses. Not open to non-degree graduate students.

**CRCJ 9010 SEMINAR ON LAW & SOCIAL CONTROL (3 credits)**

This is a required course which will examine the relationships between the state, the law, and the citizen in a democratic society. It will also examine the relationship between social control, law and social change.

**Prerequisite(s):** Admission to graduate program in Criminology and Criminal Justice; or UNO graduate student and permission of instructor.

**CRCJ 9020 SEMINAR ON THEORIES OF CRIME (3 credits)**

This is a required course which emphasizes conceptual and theoretical issues in contemporary criminological theory. It also provides students with a working knowledge of theory construction.

**Prerequisite(s):** Admission to Criminology and Criminal Justice MA or PhD graduate programs; or admission to UNO graduate program and instructor permission.

**CRCJ 9030 SEMINAR ON RACE, ETHNICITY, AND CRIMINAL JUSTICE (3 credits)**

This is a required course which introduces students to current empirical research and theory on racial minorities and the criminal justice system. It focuses on racial minorities as victims of crime, as offenders, and as criminal justice professionals.

**Prerequisite(s):** Admission to UNO graduate program.

**CRCJ 9040 COMPARATIVE CRIMINOLOGY AND CRIMINAL JUSTICE SYSTEMS (3 credits)**

This course provides a cross-national examination of the dynamics of criminality and the social response to crime. It also describes the extent and nature of crime in different countries.

**Prerequisite(s):** Admission to graduate program in Criminology and Criminal Justice; or admission to UNO graduate program and instructor permission.

**CRCJ 9050 ACADEMIC WRITING (3 credits)**

This course is designed to familiarize students with academic and professional writing with the goal of promoting the development of formal writing and organizational skills. Students will learn how to construct and organize scholarly papers to better prepare them for the comprehensive examination, the doctoral dissertation, the development of scholarly journal articles and monographs, and the development of funded project proposals.

**Prerequisite(s):** Admission to PhD program in Criminology and Criminal Justice; or UNO graduate student and permission of instructor.

**CRCJ 9080 ADVANCED STATISTICAL APPLICATIONS (3 credits)**

This is a required course which will provide the student with fundamentals of modern statistical techniques used in criminal justice and public affairs research. (Cross-listed with PA 9080).

**Prerequisite(s):** Admission to PhD program in Criminology and Criminal Justice; or UNO graduate student and CRCJ 8950 or PA 8950 and instructor permission.

**CRCJ 9090 SPECIAL PROBLEMS IN RESEARCH METHODS (3 credits)**

This course will explore specialized topics in research methodology. The course assumes that participants have a firm understanding of the basic principles of research methods and statistics.

**Prerequisite(s):** Admission to PhD program in Criminology and Criminal Justice; or UNO graduate student and instructor permission.

**CRCJ 9100 SPECIAL PROBLEMS IN STATISTICAL ANALYSIS (3 credits)**

This course will explore advanced techniques of statistical analysis within the field of criminal justice. It assumes that participants have taken courses in basic descriptive and inferential statistics and advanced multivariate analysis of variance and regression.

**Prerequisite(s):** Admission to the graduate program in Criminology and Criminal Justice and CRCJ 9080; or admission to UNO graduate program, CRCJ 9080, and permission of the instructor.

**CRCJ 9130 ADVANCED RESEARCH ON POLICING (3 credits)**

This course will explore critical research issues in American policing. The focus of the course may vary and cover topics such as police discretion, police use of force, labor unions in law enforcement, gender differences in policing, and police organization management.

**Prerequisite(s):** Admission to Criminology and Criminal Justice graduate program; or admission to UNO graduate program and permission of the instructor.

**CRCJ 9150 SPECIAL TOPICS IN CRIMINAL JUSTICE RESEARCH (3 credits)**

This course will focus on specialized topics in criminology & criminal justice research. The purpose of the course is to provide students with an opportunity to read and critique current research on topics such as the history of the criminal justice system, civilian review of the police, sentencing, or the application of the death penalty.

**Prerequisite(s):** Admission to graduate program in Criminology and Criminal Justice; or UNO graduate student and instructor permission.

**CRCJ 9160 SEMINAR IN COMMUNITY-BASED CORRECTIONS (3 credits)**

This course will deal with strategies of correctional reform and with models and practices of community-based corrections. Recent innovations in community-based corrections will be examined to demonstrate how they fit into an overall correctional strategy.

**Prerequisite(s):** Admission to UNO graduate program.

**CRCJ 9170 ADVANCED SEMINAR ON CORRECTIONS (3 credits)**

This graduate-level seminar provides an overview of critical areas in corrections research and discusses the many complexities facing corrections. Students will gain an understanding of correctional theory, practices, policies, and issues that impact different stages of correctional processing, incarcerated individuals, correctional staff and the organization. Students will develop a broad but critical understanding of the current state of correctional research.

**Prerequisite(s):** Admission to Criminology and Criminal Justice graduate program; or admission to a UNO graduate program and instructor permission.

**CRCJ 9180 SEMINAR ON THE CRIMINAL COURT SYSTEM (3 credits)**

This course will focus on the structure, organization, and operation of the state and federal court systems in the United States. The purpose of the course is to survey recent research on the dynamics of courthouse justice—charging, plea bargaining, bail decision making, jury decision making, and sentencing.

**Prerequisite(s):** Admission to graduate program in Criminology and Criminal Justice; or admission to UNO graduate program and permission of instructor.

**CRCJ 9200 SEMINAR ON VIOLENT CRIME AND CRIMINAL BEHAVIOR (3 credits)**

This course exposes students to the leading theories and research in the area of violent criminal behavior. It addresses major violent crimes including rape, homicide, and child sexual physical abuse.

**Prerequisite(s):** Admission to Criminology and Criminal Justice graduate program; or admission to UNO graduate program and instructor permission.

**CRCJ 9220 ADVANCED CRIMINOLOGICAL THEORY AND THEORY CONSTRUCTION (3 credits)**

This course is designed to extend students' knowledge of theory and theory construction beyond the basics of the elements and propositions of particular criminological theories. Students will have an opportunity to examine in depth topics such as theory construction, theory integration, theory compatibility and synthesis, and new directions in criminological theory.

**Prerequisite(s):** CRCJ 8090 or CRCJ 9020 and admission to graduate program in Criminology and Criminal Justice; or permission of instructor.

**CRCJ 9250 SEMINAR ON VICTIMIZATION ACROSS THE LIFE-COURSE (3 credits)**

The Seminar on Victimization across the Life-course provides graduate students a survey of the primary topics regarding the predictors and consequences of victimization at various points in life. This an elective course for graduate students in Criminology and Criminal Justice.

By the end of the course, students will understand major theories, research methods, and seminal research studies in the victimology field. Furthermore, students will learn how to critically analyze and interpret primary research regarding victimization.

**Prerequisite(s):** Admission to UNO graduate program. Not open to non-degree graduate students.



**CRJ 9600 SEMINAR ON CRIMINAL JUSTICE SYSTEMS (3 credits)**

This course is designed to provide students with a multidisciplinary overview of key institutions, processes, and policy issues regarding the criminal justice system. Particular emphasis is placed on examining the structures, functions, and dynamics of the police, the courts, and corrections.

Additionally, the goals and values underlying justice policy within these institutions and emerging issues within each sector are explored.

**Prerequisite(s):** Admission to PhD program in Criminology and Criminal Justice; or UNO graduate student and instructor permission.

**CRJ 9700 TEACHING CRIMINAL JUSTICE AT THE COLLEGE/ UNIVERSITY LEVEL (3 credits)**

This seminar is a required course for doctoral students in criminal justice. The purpose of the course is to provide students with the knowledge and skills that will enable them to become informed, effective, and stimulating teachers. A variety of pedagogical issues will be covered during the course of the semester; theories of learning and student motivation; constructing a course syllabus; designing effective writing assignments and in-class exercises; leading class discussions; testing and grading; and managing the classroom.

**Prerequisite(s):** Admission to Criminology and Criminal Justice PhD graduate program; or admission to Criminology and Criminal Justice MA or MS graduate program and instructor permission. Not open to nondegree students.

**CRJ 9800 ADVANCED RESEARCH DESIGN (3 credits)**

This is a required course which will expose students to advanced topics in research methods in preparation for writing their doctoral dissertation. It will also apply advanced methodological techniques to problems in the field.

**Prerequisite(s):** Admission to PhD program in Criminology and Criminal Justice; or UNO graduate student and instructor permission.

**CRJ 9980 DIRECTED READINGS IN CRIMINOLOGY & CRIMINAL JUSTICE (1-6 credits)**

This course is designed to provide the advanced graduate student with the opportunity to do extended readings on a specialized criminology or criminal justice topic.

**Prerequisite(s):** Admission to graduate program in criminology and criminal justice or UNO graduate program, and permission of instructor.

**CRJ 9990 DISSERTATION (1-20 credits)**

The dissertation is an original research project conducted and written under the direction of a faculty dissertation committee. The dissertation provides the student with an opportunity to do original research that contributes to advancing the body of knowledge on crime and criminal justice.

**Prerequisite(s):** Completion of all coursework, completion of the comprehensive examination, and permission of Supervisory Committee Chair. Not open to non-degree graduate students.

## Critical and Creative Thinking (CACT)

### Critical and Creative Thinking Graduate Courses

**CACT 8000 INTRODUCTION TO CRITICAL AND CREATIVE THINKING (3 credits)**

This course is the foundational introductory course for the Master of Arts in Critical and Creative Thinking program (MA CCT). It focuses on the development of students' skills as critical thinkers and creative problem solvers as well as the cultivation of students' capacity to recognize and leverage tools, resources, and ideas towards finding innovative solutions to everyday problems.

**Prerequisite(s):** Graduate status and acceptance into MA CACT program or permission of instructor.CACT8000

**CACT 8060 TOPICS IN CRITICAL AND CREATIVE THINKING (3 credits)**

This is a course on selected topics offered on a one-time or occasional basis. The course may be repeated as long as the topic is different each time.

May be cross listed with other departments when topics are appropriate to other departments. A complete topics syllabus will be available on file in the Office of the Master of Arts in Critical and Creative Thinking program.

**Prerequisite(s):** Graduate standing.

**CACT 8080 INDEPENDENT STUDY (1-3 credits)**

This course is designed for those students who are independently pursuing an area of study that is not covered under the existing curriculum. The student will be supervised by a member of the faculty of the MA in Critical and Creative Thinking program. All course assignments, readings, requirements, and expectations will be clearly communicated to the student in advance. May be repeated for credit for a total of six credit hours.

**Prerequisite(s):** Admission into the MA CCT program, successful completion of 6 hours of CACT coursework, including CACT 8000, and permission of faculty member. Not open to non-degree graduate students.

**CACT 8090 CRITICAL AND CREATIVE THINKING GRADUATE PROJECT (3 credits)**

The Graduate Project is an applied student project under the direction of a faculty advisor. In the project, the student will apply interdisciplinary knowledge and skills gained within the program to address a problem or to expand knowledge within or across disciplines. The product or artifact produced by the student may take a variety of forms.

**Prerequisite(s):** Permission of faculty advisor and Graduate Program Committee Leadership (or its designee). Not open to non-degree graduate students.

**CACT 8100 GLOBAL CINEMA (3 credits)**

A critical and analytic study of foreign films focusing on overlapping global issues. This course supports the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking.

**CACT 8106 CULTURAL PSYCHOLOGY (3 credits)**

This course will provide an overview of the cultural, community and ecological factors that play a role in how people perceive their environments. The goal is to investigate the ways in which culture affects individual behaviors, attitudes and cognitions. It may be easy to tell that two cultures are different, but identifying exactly what is meant - and all that is encompassed - when speaking about "culture" can be much more difficult. Culture can include everything from gender constructs and race/ethnicity to the effects of new technologies. All of these aspects of culture affect individuals' psychological make-up and behavior. Although psychology has largely developed from a Western tradition, attention to research from non-Western perspectives will also be emphasized. This course supports the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with PSYC 4530, PSYC 8536).

**Prerequisite(s):** Enrollment in MA in Critical & Creative Thinking program or by permission of the instructor.

**CACT 8110 GLOBAL SOCIAL ISSUES: CREATIVE AND CRITICAL ANALYSES (3 credits)**

This course focuses on global cultural and social forces and how they interact to form nexuses of both opportunity and obstacle to constructive human engagement on a wide array of social issues. An overview of topics covered in the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking. This course will provide students with the analytical tools, collaborative engagement skills, and applied problem-solving techniques that will help students succeed in this concentration and program. (Cross-listed with BLST 8110)

**Prerequisite(s):** Graduate standing.



**CACT 8116 GEOGRAPHY OF ECONOMIC GLOBALIZATION (3 credits)**

A study of the geography of economic globalization and the geography of the world economy. The major topics include the historical development of the world economy and globalization from the geographical perspective, trends in geography of global production, trade and investment, the most important factors and actors in the globalization processes and its geographic effects, geography of transnational corporations, case studies of economic geography of selected industries and service activities, effects of globalization on the developed and developing countries. This course also supports the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with GEOG 4550, GEOG 8556)

**Prerequisite(s):** Graduate status.

**CACT 8186 URBAN LATIN AMERICA (3 credits)**

This course examines the experience of Latin American urbanization, attending to its contributions to urban sociology, social movements, and policymaking. Topics include urban transitions (e.g. pre-Hispanic to colonial, post-colonial to industrial, and the neoliberal turn), socio-spatial configurations (e.g. plazas, squatter settlements), urban marginality debates, urban politics, and planning as well as governance innovations (e.g. bus rapid transit systems, participatory budgeting). Students will compare city case studies across the region and to urban life in the United States. (Cross-listed with SOC 8786, SOC 4780, LLS 8786, LLS 4780).

**CACT 8200 SEMINAR IN POLITICAL THEORY (3 credits)**

This course introduces students to the history of political theory, from its origins in ancient Greece to its manifestations in contemporary thought. (Cross-listed with PSCI 8300)

**Prerequisite(s):** Permission of graduate advisor. Not open to non-degree graduate students.

**CACT 8206 COMPARATIVE RELIGIOUS ETHICS (3 credits)**

An introduction to historical and contemporary approaches to comparative religious ethics, with special focus on specific case studies as encountered in societies and religious communities across the globe. In addition to reading authors from a variety of perspectives (Aristotelians, natural law theorists, philosophers of law, pragmatists, theologians, and historians of religion), students will be introduced to special topics in the field, e.g., religion and public life, religion and law, syncretism, the secular/non-secular divide, etc. This course supports the Ethics and Values concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with RELI 4200, RELI 8206)

**CACT 8215 VALUES AND VIRTUES (3 credits)**

This course explores advanced topics in ethics with particular emphasis on value theory and virtue ethics. Topics to be considered include the meaning and status of value claims, sources of value, intrinsic goods, agent-relative goods, practical reason, moral development, happiness, moral ambiguity, moral luck, the identification of virtues, and relationships of care, trust, and responsibility. This course supports the Ethics and Values concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with PHIL 3060)

**CACT 8216 PUBLIC HEALTH, RELIGION, AND HUMAN RIGHTS (3 credits)**

This course examines the intersections among public health, religion, and human rights. It considers how human rights impact public health and vice versa; how human rights and religious thought impact each other; how religious communities approach issues of public health; and how religious thought and practice affects people's health. Topics include infectious diseases such as HIV and COVID-19; issues of stigma and discrimination in public health; social determinants of health such as poverty and environmental quality; and women's and LGBTQ+ health. Students will gain skills of textual analysis, dialogue, and argumentative reasoning in both written and verbal form. (Cross-listed with RELI 8216, RELI 4210)

**Prerequisite(s):** Graduate standing.

**CACT 8226 VIOLENT CONFLICTS, PEACEBUILDING, AND THE ETHICS OF INTERVENTION (3 credits)**

This course is designed to familiarize the student with the nature of violent conflict, including terrorism, and a variety of the mechanisms for peacebuilding. The course will also explore human rights and the ethics of intervention. This course supports the Ethics and Values concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with RELI 4220, RELI 8226)

**CACT 8306 INTERNATIONAL DEVELOPMENT & SUSTAINABILITY (3 credits)**

This course introduces students to different concepts of international development through the lens of sustainability. The course explores a broad range of activities related to international development, including international aid, trade, philanthropy, interventions in conflict, peacebuilding, public health, human rights, social justice, and the environment. (Cross-listed with PSCI 4290, PSCI 8296)

**Prerequisite(s):** PSCI 2210 or equivalent is recommended.

**CACT 8310 ECOLOGICAL WRITING AND ANALYSIS (3 credits)**

This course provides students with the opportunity to develop expertise in a wide range of foundational works and key techniques of ecological writing and theory in English. By engaging mindfully with these works and techniques, students will develop advanced skills in ecologically oriented critical analysis and creative thinking. This course supports the Writing and Critical Reflection and the Health and the Environment concentrations in the Master of Arts in Critical and Creative Thinking. (Cross-listed with ENGL 8310)

**Prerequisite(s):** Graduate standing.

**CACT 8316 OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY (3 credits)**

In this course, students will analyze our energy options including the environmental, economic, and ethical connections with a particular emphasis on electrical energy. The course doesn't prescribe a particular energy future but rather emphasizes development of the knowledge and skills to more effectively contribute to the conversation. To understand our future, the course begins with the present energy landscape and its historical underpinnings, then focuses on developing a student's ability to critically assess energy options by examining the associated implications, consequences, intent, origins, and bias. Students' own work, life, and academic experience are used in the course to underscore the individual relevance of these energy choices. The course includes the necessary science, but the greater emphasis is on the associated critical and creative thinking so that ultimately students can make informed, creative, sustainable energy choices. (Cross-listed with ENVN 4310, ENVN 8316)

**Prerequisite(s):** Graduate standing.

**CACT 8326 ECOLOGICAL SUSTAINABILITY AND HUMAN HEALTH (3 credits)**

The course will explore and develop the complex context of the systemic links among ecosystems and human health (and more broadly human well-being) using case studies including climate change, water quality, infectious diseases and agricultural production. Students will develop skills in critical thinking and applied research by studying biological connections between humans and ecosystems and how social, economic and cultural processes and practices mediate these connections. This course supports the Health and the Environment concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with ENVN 4320)

**Prerequisite(s):** Graduate standing.

**CACT 8400 A HISTORY OF AMERICAN IMMIGRATION POLICIES AND LAWS (3 credits)**

This seminar will examine the evolution of American immigration policies and laws from the colonial period to the present day. Where appropriate, the course will examine American immigration laws in a comparative context. It will pay particular attention to how state policies create and/or sustain inclusionary or exclusionary practices for members of different racial, ethnic, religious, or gender groups in American society.

**Prerequisite(s):** Graduate standing.

**CACT 8410 IMMIGRATION, MIGRATION, AND DIASPORA: CRITICAL APPROACHES AND THEORIES OF MOVEMENT IN LITERATURE (3 credits)**

This seminar in literature and some film analyzes the depictions in non-fiction and fiction of displacement as a result of immigration, migration, refugee status, or any other considered movement, intentional or imposed. It will focus largely on the U.S. experiences of those displaced from all locales. (Cross-listed with ENGL 8410)

**Prerequisite(s):** Graduate standing.

**CACT 8416 LITERATURE/CULTURE: CENTRAL AMERICA AND THE CARIBBEAN 1898-2000 (3 credits)**

"Literature/ Culture: Central America and the Caribbean 1898- 2000" studies major historical and socio-cultural events in Latin American history in the 20th century, through their articulation in literary texts, film, and other cultural expressions from Central America and the Hispanic Caribbean. (Cross-listed with SPAN 4150, SPAN 8156)

**CACT 8420 MEXICO AND THE U.S. BORDERLANDS: TWO HISTORIES, ONE DESTINY (3 credits)**

Exploration of U.S.-Mexico Borderlands history and its pathways to current developments. It reviews borderland encounters, miscegenation, and wars between Indigenous groups, Europeans, North Americans, and Mexicans. It looks at the history of the drafting of the imaginary U.S.-Mexico borderline and follows its development until the construction of a wall to separate an undividable socio-cultural space. The course integrates a comparative conceptual approach to empires, nation-building, territorial expansion, identity formation, code-mixed English-Spanish uses, and state sovereignty.

**CACT 8436 INTERNATIONAL MIGRATION, DEVELOPMENT AND CITIZENSHIP (3 credits)**

The course examines the forces driving contemporary global migration, the impact of migration in both sending and receiving nations' development, as well as the politics and practices of migration policy development. The course also discusses the current debates on immigrant incorporation and citizenship in the receiving countries. (Cross-listed with LLS 4430, LLS 8436).

**Prerequisite(s):** Graduate standing

**CACT 8500 COMPLEX ORGANIZATIONS (3 credits)**

This graduate seminar provides an overview focused on the understanding and analysis of intricate internal and external organizational forces such as organizational bureaucracy, organizational culture, autonomy and control systems, which affect performance of organizational members as well as influence organizational survival. (Cross-listed with SOC 8500)

**Prerequisite(s):** Graduate enrollment or permission of class instructor.

**CACT 8506 CREATIVITY AND INNOVATION IN ORGANIZATIONS (3 credits)**

To provide a discussion of the antecedents of individual and organizational creativity, including measurement, models, characteristics of the individual and the environment that facilitate creativity and innovation in an organizational setting. Students in this course will be able to understand the research literature related to creativity and innovation and apply the findings to improve critical and creative thinking, implementation of creative ideas, and development of creative teams and organizations. This course supports the Organizational Science and Leadership concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with PSYC 4650, PSYC 8656)

**CACT 8510 SEMINAR IN LEADERSHIP (3 credits)**

This course introduces students to classical and contemporary scholarship on leadership theory, research, and application. Students gain a foundation in models of leadership, assess their own leadership styles, and learn to integrate what they learn in corporate, governmental, non-profit, or community organizations. (Cross-listed with PSCI 8120)

**Prerequisite(s):** Permission of graduate adviser. Not open to non-degree graduate students.

**CACT 8520 POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP (3 credits)**

This course is a graduate seminar on organizational psychology and leadership that focuses on the understanding and critical analysis of theory and practice pertaining to individual functioning at work. Positive organizational psychology theories and practices will provide the overarching framework in understanding potential solutions to challenges and problems facing leaders and their employees. (Cross-listed with PSYC 9421).

**Prerequisite(s):** Graduate standing or permission of instructor.

**CACT 8530 PERSONNEL PSYCHOLOGY AND LEADERSHIP (3 credits)**

This course provides an overview of personnel psychology from a leadership perspective. Topics include methodology, employee selection, performance appraisal, organizational attitudes and behavior, motivation, and leadership style.

**Prerequisite(s):** Graduate standing or permission of instructor

**CACT 8540 SEMINAR ON INTERNATIONAL LEADERSHIP AND STRATEGY (3 credits)**

This course introduces students to international leadership and strategy theory, research, and application. (Cross-listed with PSCI 8220).

**Prerequisite(s):** Not open to non-degree graduate students.

**CACT 8610 PROFESSIONAL AND TECHNICAL WRITING (3 credits)**

This course will introduce students to the theory, research, and practices of professional and technical writing. Through readings, discussions, and assignments, students will gain an understanding of the types and circumstances of communication challenges encountered in the workplace. The course will also consider the roles of persuasion and ethics in written communication. (Cross-listed with ENGL 8610)

**Prerequisite(s):** Graduate standing.

**CACT 8630 DIGITAL RHETORIC (3 credits)**

This course provides students with the opportunity to develop expertise in the theory and practice of digital rhetoric by considering technology's deep impact on how we define and engage in writing. Students examine contemporary writing practices as part of a rich rhetorical tradition while they design and create effective multimodal compositions and analyze foundational works in digital rhetoric. This course supports the Writing and Critical Reflection concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with ENGL 8630)

**Prerequisite(s):** Graduate standing.

**CACT 8640 CREATIVE NONFICTION IN DIGITAL ENVIRONMENTS (3 credits)**

Students in this course will study creative nonfiction in digital environments, analyze rhetorical situations created in digital environments, which might include, in addition to other modalities, sounds, animations, and hypertext, and create multimodal essays. The course will also focus on the study and analysis of craft-elements of creative nonfiction: narrative persona, tone, rhythm and style, scenic construction, among others. Students taking this course will learn to read with interpretative and analytical proficiency a broad range of creative nonfiction in digital environments. (Cross-listed with ENGL 8640).

**Prerequisite(s):** Graduate standing

**CACT 8650 WRITING ACROSS DIFFERENCES: RHETORICAL THEORY FOR PERSUASION AND PUBLIC ADVOCACY (3 credits)**

This course provides students a theoretical foundation for understanding how language is used in various types of discourses and texts as a means of convincing others of a given viewpoint or idea. Students will apply this theory to real-world writing scenarios in their scholarly areas of interest, to advocacy and social issues movements, or to address workplace needs and goals. This course supports the Writing and Critical Reflection concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with ENGL 8650)

**Prerequisite(s):** Graduate standing.

# Cybersecurity (CYBR)

## Cybersecurity Graduate Courses

### **CYBR 8080 SPECIAL TOPICS IN INFORMATION ASSURANCE (1-6 credits)**

The course provides a format for exploring advanced research areas for graduate students in Information Assurance and related fields. Specific topics vary, in keeping with research interests of faculty and students. Examples include applied data mining, mobile security, web services and applications, vulnerability assessments, cloud computing security, and other issues in Information Assurance research.

**Prerequisite(s):** Instructor Permission.

### **CYBR 8366 PRINCIPLES OF SECURE SYSTEM DESIGN (3 credits)**

Contemporary issues in computer security, including sources for computer security threats and appropriate reactions; basic encryption and decryption; secure encryption systems; program security, trusted operating systems; database security, network and distributed systems security, administering security; legal and ethical issues. (Cross-listed with CYBR 4360, CSCI 8366)

### **CYBR 8396 MOBILE DEVICE FORENSICS (3 credits)**

Mobile device forensics is the science of recovering digital evidence from a mobile device under forensically sound conditions using accepted methods. The aim of this course is to introduce students to acceptable approaches for collecting, analyzing and reporting data from a mobile device forensics investigation. Topics include: an introduction to digital and mobile device forensics, mobile forensics standards, acquisition methods (manual, logical, physical and provider-side), Android and iOS filesystem analysis, decoding approaches, application data analysis, and report writing. Students will be required to perform several investigations in a controlled lab environment, including acquiring forensically sound evidence and analyzing these using industry standard tools. (Cross-listed with CYBR 4390).

### **CYBR 8410 DISTRIBUTED SYSTEMS AND NETWORK SECURITY (3 credits)**

The course aims at understanding the issues surrounding data security, integrity, confidentiality and availability in distributed systems. Further, we will discuss various network security issues, threats that exist and strategies to mitigate them. This course will cover topics in cryptography, public key infrastructure, authentication, hashing, digital signatures, ARP protection, IP and IPSEC, IP Tables, SSL/TLS, firewalls, etc. (Cross-listed with CSCI 8410)

**Prerequisite(s):** IASC 8366 or equivalent(s); or instructor permission. Not open to non-degree graduate students.

### **CYBR 8420 SOFTWARE ASSURANCE (3 credits)**

Software assurance is a reasoned, auditable argument created to support the belief that the software will operate as expected. This course is an intersection of knowledge areas necessary to perform engineering activities or aspects of activities relevant for promoting software assurance. This course takes on a software development lifecycle perspective for the prevention of flaws. (Cross-listed with CSCI 8420)

**Prerequisite(s):** CSCI 8836 OR by permission of the Instructor. Not open to non-degree graduate students.

### **CYBR 8436 QUANTUM COMPUTING AND CRYPTOGRAPHY (3 credits)**

The course builds an understanding of exciting concepts behind quantum computing and quantum cryptography. In doing so it will introduce the principles of qubits, superposition, entanglement, teleportation, measurement, quantum error correction, quantum algorithms such as quantum Fourier transformation, Shor's algorithm and Grover's algorithm, quantum key exchange, quantum encryption, and secure quantum channels that are built using these principles. It will also discuss advantages of quantum computing and cryptography over classical computing and cryptography and limitations thereof. The students will come out with a working understanding of the field of quantum computing and quantum cryptography. During the course, students will also implement several of the quantum algorithms. (Cross-listed with CYBR 4430, CSCI 4430).

### **CYBR 8446 INDUSTRIAL CONTROL SYSTEM SECURITY (3 credits)**

The objective of this course is to research vulnerabilities into, and provide guidance for securing, industrial control systems (ICS). ICS is a general term that encompasses several types of control systems, including supervisory control and data acquisition (SCADA) systems, distributed control systems (DCS), and other control system items such as Programmable Logic Controllers (PLC). The student will learn to identify network and device vulnerabilities and potential countermeasures to these weaknesses. (Cross-listed with CYBR 4440)

### **CYBR 8450 APPLIED CRYPTOGRAPHY (3 credits)**

In this course we will implement stream and block ciphers in different modes, public key algorithms, hash functions, message authentication codes, random number generators, etc. Along the way we will also explore weaknesses of these algorithms and implement well-known attacks on them. We will also solve crypto challenges and puzzles. This is a hand-on course and will require programming proficiency. The preferred language will be Python; you can, however, use other object oriented languages.

**Prerequisite(s):** CSCI 8410 or CYBR 8410

### **CYBR 8456 ETHICAL HACKING - MALWARE ANALYSIS (3 credits)**

Malware analysis is the study of computer viruses and how they operate. A heavy emphasis in the class is learning and using reverse engineering tools for analyzing executable computer software at an assembly-language level, particularly using the x86 instruction set. Students will learn about "packing", "hooking", and other low-level plays that malware utilizes to make itself stealthy, persistent, and to thwart reverse engineering efforts. (Cross-listed with CYBR 4450.)

### **CYBR 8466 ETHICAL HACKING - NETWORK ANALYSIS (3 credits)**

The course is an advanced class in which the students learn various techniques for testing for and identifying security flaws in network software and web applications. Internet technologies such as HTTP, DNS, DHCP, and others are examined in the context of cyber security. Students are expected to participate in numerous hands-on experiments related to Information Assurance with respect to web technologies. (Cross-listed with CYBR 4460)

### **CYBR 8470 SECURE WEB APPLICATION DEVELOPMENT (3 credits)**

Web applications are pervasive fixtures of 21st century culture. Web application security is an inclusive, amorphous, term that spans application level security, i.e. ensuring high level code cannot be exploited, server level security, i.e. ensuring server resources such as databases and file systems cannot be exploited, and network security, i.e. ensuring unauthorized parties cannot access a server or tamper with user sessions. This course cross-cuts the web application security concepts across the different categories above and takes a heavily hands-on approach to introduce students to the world of secure web app. design and development.

### **CYBR 8480 SECURE MOBILE DEVELOPMENT (3 credits)**

Mobile devices are already pervasive fixtures of 21st century culture and increasingly the internet of things (IoT) and wearables are proliferating throughout the world. As this proliferation occurs, numerous vendor-centric and third-party mobile, wearable, and internet of things apps are being created by developers and downloaded by end-users with little to no thought about the security and privacy of the information used and collected by the apps. This course examines this issue from a development point of view to a) introduce mobile/wearable/IoT architectures and technologies, b) increase student application development competencies with these technologies, and c) integrate secure design principles into the ideation, design, and testing phases during development.

**Prerequisite(s):** CYBR 8470 or Instructor Permission

**CYBR 8490 CYBER INVESTIGATIONS (3 credits)**

Security incidents and cybercrimes detected by organizations are escalating in both scale and complexity. As a result, cyber investigation capabilities have become a critical mechanism for organizations in an effort to minimize the damage from incidents and cybercrimes. These investigations often involve the preservation, identification, extraction, analysis and documentation of digital data (evidence) stored on a variety of electronic devices. The aim of this course is to introduce graduate students to acceptable approaches for collecting, analyzing and reporting data from a cyber investigation. Topics include but are not limited to: an introduction to cyber investigations, cyber investigations and the law, incident response and first responder actions, investigation techniques, operating system analysis, and network investigations. Students will be required to perform several analyses in a controlled lab environment.

**Prerequisite(s):** CYBR 8366 or equivalent. CSCI 3550 or ISQA 3400, or equivalent. CYBR 3370 or equivalent. Alternatively, instructor permission can be sought before enrolling into the class for students who have not met all of the above requirements.

**CYBR 8546 COMPUTER SECURITY MANAGEMENT (3 credits)**

The purpose of this course is to integrate concepts and techniques from security assessment, risk mitigation, disaster planning, and auditing to identify, understand, and propose solutions to problems of computer security and security administration. (Cross-listed with CIST 4540, CYBR 4540, ISQA 8546)

**Prerequisite(s):** CYBR 4360 or permission of the instructor.

**CYBR 8570 INFORMATION SECURITY POLICY AND ETHICS (3 credits)**

The course will cover the development and need for information security policies, issues regarding privacy, and the application of computer ethics. (Cross-listed with ISQA 8570)

**Prerequisite(s):** CIST 2100 or BSAD 8030, or permission of instructor.

**CYBR 8900 INDEPENDENT STUDY IN INFORMATION ASSURANCE (1-3 credits)**

The course provides a format for exploring advanced research areas for graduate students in Information Assurance and related fields. The class is designed for students that would like to explore specific Information Assurance topics at a greater depth, or topics that are not currently a part of the IA curriculum. The class is proposed and organized by the student, with participating faculty mentoring.

**Prerequisite(s):** Instructor Permission

**CYBR 8910 INTERNSHIP (1-3 credits)**

The purpose of this course is to provide the students with an opportunity for practical application and further development of knowledge and skills acquired in the MS in CyberSecurity (CYBR) program. The internship gives students professional work experience and exposure to the challenges and opportunities faced by IT professionals in the workplace.

**Prerequisite(s):** Students must have completed a minimum of 12 credit hours towards the MS in CYBR program. Instructor permission is required to register. Not open to non-degree graduate students.

**CYBR 8950 CYBERSECURITY GRADUATE CAPSTONE (3 credits)**

The graduate capstone course challenges students to prove their mastery of the skills and domain knowledge they have gathered throughout their program of study. The course begins with a module on project management and research best practices. The majority of course is structured around facilitating a non-trivial semester-long project, often in service to a third-party project sponsor, such as a community, industry, or government partner. The course is intended for students that have selected the coursework option, not thesis, and that are close to graduation (see prerequisites). The course is considered summative and replaces the MS in CYBR comprehensive examination requirement.

**Prerequisite(s):** Students must have 9 credit hours or fewer left in the program. Students must have completed CYBR 8366, CYBR 8410, and CYBR 8420. Not open to non-degree graduate students.

**CYBR 8986 SPECIAL TOPICS IN CYBERSECURITY (3 credits)**

The course provides a format for exploring advanced research areas for undergraduate and graduate students in Cybersecurity and related fields. Specific topics vary, in keeping with the research interests of faculty and students. Examples include applied data mining, mobile security, web services and applications, vulnerability assessments, cloud computing security, and other issues in Cybersecurity research. (Cross-listed with CYBR 4980)

**Prerequisite(s):** Instructor Permission.

**CYBR 8990 THESIS IN INFORMATION ASSURANCE (1-6 credits)**

A research project, designed and executed under the supervision of the chair and approval by members of the graduate student's thesis advisory committee. In this project the student will develop and perfect a number of skills including the ability to design, conduct, analyze and report the results in writing (i.e., thesis) of an original, independent scientific investigation.

**Prerequisite(s):** Instructor Permission.

**CYBR 9460 SECURITY OF EMBEDDED SYSTEMS (3 credits)**

An embedded system is some combination of computer hardware and software, either fixed in capability or programmable, which is specifically designed for a particular function. Industrial machines, automobile electronic systems, medical equipment, cameras, household appliances, airplanes, and vending machines, are among the myriad possible hosts of an embedded system. This course covers forward-looking topics in the security of embedded systems, including topics such as logic circuit obfuscation, hardware security methods, network setup exploits, and other "lower level" computer architecture subjects with respect to cybersecurity.

**Prerequisite(s):** CYBR 8366 - Foundations of Information Assurance

## Economics (ECON)

### Economics Graduate Courses

**ECON 8010 SEMINAR IN PUBLIC FINANCE (3 credits)**

This course is designed to develop the tools of applied welfare economics and to use these tools to evaluate the expenditure and tax decisions of governments. The structure, effects and reform of the U.S. individual and corporate income taxes, social security and healthcare system will be emphasized. Government debt and deficits will also be discussed.

**Prerequisite(s):** ECON 3200 or ECON 8210 or BSAD 8100 or permission

**ECON 8050 ECONOMIC EDUCATION (3 credits)**

A study and examination of economic principles and how they can be related to the teacher's classroom presentation. This course is designed to furnish the k-12 teacher with sufficient background and understanding to aid in the recognition of economic issues and the teaching of economic concepts and principles.

**Prerequisite(s):** No previous course work in economics. Not open to Economics majors.

**ECON 8080 MONEY AND FINANCIAL INSTITUTIONS (3 credits)**

This course examines the financial system (institutions, instruments, markets, practices, and public authorities), and the implementation of monetary policy that aims to maintain financial stability and support economic growth. The course discusses current events reported in the financial press and uses the analytic frameworks developed in class to analyze these issues. This course trains students to think systematically about the current state of the economy and use quantitative tools to analyze the interactions between monetary policy and the financial system.

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better, or permission of instructor.

**ECON 8200 SEMINAR IN MICRO ECONOMIC THEORY (3 credits)**

The course covers major topics in microeconomic theory. The major topics covered are the theory of consumer behavior, theory of production and cost, theory of the firm, pure exchange economy, general equilibrium, and welfare theory.

**Prerequisite(s):** ECON 3200, ECON 3220 and ECON 8306 or permission.



**ECON 8210 APPLIED MANAGERIAL ECONOMICS (3 credits)**

This is a course in empirical economic modeling techniques deployed by economists and other business consultants use in business and public policy applications. There are four main themes: 1) techniques used in demand analysis and economic forecasting, 2) techniques used in production and cost analysis, 3) supply chain and trade analysis, and 4) analysis and measurement of competitive interactions.

**Prerequisite(s):** ECON 2200 or equivalent, or permission of the instructor.

**ECON 8216 INDUSTRIAL ORGANIZATION (3 credits)**

In this class we will examine why firms and industries behave the way that they do. We will explore why some industries face intense competition while others enjoy large profits, why some industries offer only bundles, and why some firms buy up their supply chain when others do not. This theoretical course will illuminate un-theoretical implications to your life and future business ventures. This course will use your economic knowledge, a bit of psychology (behavioral economics) and game theory to answer questions like "Why does everyone hate the cable company?" and "Why are CEOs given so many stock options?" (Cross-listed with ECON 4210).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better, or permission of instructor.

**ECON 8220 SEMINAR IN MACRO THEORY (3 credits)**

This course traces the development of macroeconomic theory from the classical point of view to current schools of thought. Keynesian, neo-Keynesian and neo-classical models are developed.

**Prerequisite(s):** ECON 3200 or ECON 8210 or BSAD 8100, ECON 3220, and ECON 8306, or permission.

**ECON 8230 BUSINESS CONDITIONS ANALYSIS (3 credits)**

This course is concerned with the statistical measurement and evaluation of general business conditions, as well as the adaptation of business policies to changing business conditions. Emphasis is placed upon the practical application of statistical analysis techniques to business situations within the framework of the aggregate economy.

**Prerequisite(s):** ECON 2200 and ECON 2220.

**ECON 8246 LABOR ECONOMICS (3 credits)**

The course will cover essential topics in Labor Economics including factors leading to equilibrium conditions in the labor market, human capital accumulation, discrimination in the workplace, compensation for undesirable work, mobility, unionization, and more. (Cross-listed with ECON 4240).

**Prerequisite(s):** ECON 2200 OR BSAD 8150 OR Instructor Approval

**ECON 8256 SPORTS ECONOMICS (3 credits)**

Economics is frequently considered an abstract topic, with interesting results that are not easily applied in the real world. Through Sports Economics, students will explore the very real ways in which economics influences sporting competitions and the businesses surrounding them. Students will explore topics such as unionization in sports, discrimination, amateurism, monopoly power, game theory, and more in the context of sports, giving the student a deeper understanding of how these topics apply to real-world problems. After this course, students will understand how readily economics can be applied to businesses and problems in any industry or domain. (Cross-listed with ECON 4770).

**Prerequisite(s):** ECON 2200 OR BSAD 8150 OR Equivalent OR Instructor Approval. Not open to non-degree graduate students.

**ECON 8290 RESEARCH METHODS IN ECONOMICS AND BUSINESS (3 credits)**

Covers the methodology of economics: choosing a research topic, literature search tools, data source identification, data summary techniques, basic statistical data analysis using statistical packages, and clear economics writing. The student will become familiar with these techniques through text materials, journal studies, and completion of an empirical economics paper.

**Prerequisite(s):** ECON 3200, ECON 3220, or equivalents, or permission of the instructor. Not open to non-degree graduate students.

**ECON 8300 ECONOMETRICS (3 credits)**

The study of the underlying assumptions, techniques and applications of single and multiple equation regression analysis in economics.

**Prerequisite(s):** Basic Statistics, ECON 8306/ECON 4300, or permission. Not open to non-degree graduate students.

**ECON 8306 QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS (3 credits)**

The study and application of modern quantitative techniques to problem-solving in economics and business. It is designed to help the student to translate verbal arguments in economics and business into their mathematical equivalents, to improve analytical skills, and to attain proficiency in marginal analysis, equilibrium analysis, static optimization, and comparative statics analysis. It covers topics such as exponential and logarithmic functions and their applications, linear algebra and its applications, derivatives and their applications, maximization of functions with one variable and multi variables, maximization with non negativity constraints, and integral calculus and its applications in economics and business. (Cross-listed with ECON 4300).

**Prerequisite(s):** ECON 2200 and ECON 2220, or BSAD 8180.

**ECON 8310 BUSINESS FORECASTING (3 credits)**

The course will cover forecasting tools and applications applied to business settings. The first half of the course will cover traditional Econometric forecasting methods and the second half of the course will focus on predictive analytics models and machine learning. Time in the computer lab will be focused on teaching students how to implement the models discussed in lectures. (Cross-listed with BSAD 8080).

**Prerequisite(s):** ECON 8320 (or equivalent programming experience) or permission of instructor. Not open to non-degree graduate students.

**ECON 8316 BUSINESS INTELLIGENCE AND REPORTING (3 credits)**

The course will teach students to use state-of-the-art Business Intelligence (BI) software to generate reports and information from data. BI software is used to inform decision-making in industries from transportation to medicine, from marketing to government, and is facilitated by rapidly increasing access to data in all industries. Students will learn to employ best practices in visualization and verbal communication as they are trained to create valuable insights from data and convey those insights to stakeholders. Additionally, the course will aid students in preparing for certification in the use of state-of-the-art BI software. (Cross-listed with ECON 4350).

**Prerequisite(s):** BSAD 2130 (or equivalent) OR Instructor Approval

**ECON 8320 TOOLS FOR DATA ANALYSIS (3 credits)**

The course will cover basic principles of programming languages, as well as libraries useful in collecting, cleaning and analyzing data to answer research questions. The course will utilize basic Economic principles and Econometric methods as inspiration for assignments and projects throughout the duration of the course, and will do so in a way that is accessible to non-Economists. This course is intended to introduce the student to the Python programming language as a tool for conducting data analysis. While the course uses Python, the student should be able to move to other languages frequently used in data analysis using the principles taught in this course.

**Prerequisite(s):** BSAD 2130 or equivalent; or instructor approval.

**ECON 8326 NATURAL RESOURCE ECONOMICS (3 credits)**

This course introduces students to the economics and management of Earth's natural resources. We address questions such as: Are we running out of natural resources? Are we using resources in a sustainable fashion? What role to markets play in resource use? We will address issues related to fossil-based resources, minerals, fisheries, water, land, forests and other associated topics. The course covers the basic theoretical framework for understanding the optimal rate of resource use, identifies the factors that determine the actual rate of use, and considers and evaluates various public policy prescriptions. (Cross-listed with ECON 4320).

**Prerequisite(s):** ECON 2200 and ECON 2220, BSAD 8150 or permission of instructor.



**ECON 8330 DATA ANALYSIS FROM SCRATCH (3 credits)**

Econometrics is routinely taught as an application class using a 'black box' like Stata or SAS to perform calculations. This class takes a different approach. Using the Python programming language, we build all estimators from scratch. Additionally, we introduce numerous non-parametric and simulation techniques. This approach to econometrics results in a stronger understanding of statistical assumptions and methods, a better understanding of when a method is appropriate, and stronger programming techniques. Furthermore, a deeper understanding of the underlying mechanics provides the student the ability to program custom procedures not already built into popular software packages. As part of the course, students will work with a community partner to answer a real question with data; MBA students should consult with their advisor about this course satisfying the project-focused capstone requirement.

**Prerequisite(s):** A multivariate or regression analysis course such as ECON 8300, ISQA 9130 or STAT 8436, and a programming class such as ECON 8320 or equivalent programming experience; or instructor approval. Not open to non-degree graduate students.

**ECON 8336 ENVIRONMENTAL ECONOMICS AND BUSINESS STRATEGY (3 credits)**

In this course students will apply economic concepts and models to environmental concerns and policy solutions that combat environmental degradation. Topics include: Air and water pollution, solid waste management, carbon taxation, cap-and-trade systems, and economic motivations for environmental business management. (Cross-listed with ECON 4330).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**ECON 8346 ECONOMICS OF TECHNOLOGY (3 credits)**

Innovative dynamism is the economic system which brings us the new goods and processes that make life longer and better. We will examine how the system works, including: The role of the breakthrough inventor and the innovative entrepreneur; whether the system improves or hurts ethical behavior, culture, equality, and the environment; the costs to workers in terms of job loss, and the benefits to workers in terms of the creation of better jobs; how funding, regulatory, and patent policies affect innovative dynamism; and how innovative dynamism in medicine can result in more and faster cures for cancer and other diseases. (Cross-listed with ECON 4340).

**Prerequisite(s):** ECON 2200 or BSAD 8180 or permission of the instructor.

**ECON 8456 DOMESTIC MONETARY THEORY AND POLICY (3 credits)**

The course will introduce students to topics in money and banking, financial institutions, markets, financial instruments, and monetary theory in order to enhance financial decision making and enable students to effectively analyze economic news in media such as the Wall Street Journal, The New York Times, Business Week, Barrons, The Economist, and other related business publications. This knowledge will enable students to formulate their own views about the current economic environment, government policies, and responses to economic environments. (Cross-listed with ECON 4450).

**ECON 8576 ECONOMIC CONDITIONS ANALYSIS (3 credits)**

This course teaches students how to conduct an economic analysis of, and produce an economic forecast for, a local economy such as a state, county, or metropolitan area. Students will learn where to find data, how to analyze that data, how to develop models with the data, and how to present the data in a clear, concise, and jargon-free manner. The final published report will be authored by the students registered in the course. All students will contribute equally to the final report. The instructor will ensure equal participation. (Cross-listed with ECON 4570).

**Prerequisite(s):** ECON 2200 and ECON 2220, or Permission from the instructor

**ECON 8616 INTERNATIONAL TRADE (3 credits)**

An analysis of the character of international economic relations. Subjects covered include the economic basis for international specialization and trade, the economic gains from trade, commercial policy, economic integration and economic growth. (Cross-listed with ECON 4610).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, or BSAD 8180, or permission of instructor.

**ECON 8626 INTERNATIONAL MONETARY THEORY (3 credits)**

This course is designed to introduce students to topic areas in International Macroeconomics and International Finance. Students will examine the mechanisms of the foreign exchange market, and how exchange rates are determined in the short-run as well as in the long-run. Students will investigate the different exchange rate regimes around the world, including fixed exchange rates, floating exchange rates, crawling pegs, and other arrangements. Students will examine the European Union and ask whether such a system is economically viable. This is especially important in the current economic environment facing Europe. Students will also examine exchange rate crises over history, and examine how they all have common elements. (Cross-listed with ECON 4620).

**Prerequisite(s):** ECON 2200 and ECON 2220, or BSAD 8180, or permission of instructor.

**ECON 8666 INTERNATIONAL ECONOMIC DEVELOPMENT (3 credits)**

This course introduces theories and application of economic development and growth, economic problems facing developing countries, analyzes domestic economic issues (e.g., per capita GDP, income distribution, population, unemployment, urbanization, education, fiscal policies, and financial policies), and international economic issues (e.g., trade, foreign investment, and foreign debt). Financial crises, debt crises, and economic recovery will be discussed. (Cross-listed with ECON 4660).

**Prerequisite(s):** ECON 2200 and ECON 2220, or BSAD 8180, or permission of instructor.

**ECON 8736 ECONOMICS OF ENTREPRENEURSHIP (3 credits)**

This course will review economic theories of entrepreneurship with special emphasis on Schumpeter's theory of creative destruction. The main focus of the seminar will be on the "high-level" entrepreneurship that sometimes results in major innovations. This course will address the societal benefits of entrepreneurship, factors influencing entrepreneurial success, the policies that best encourage entrepreneurship, and how firms can survive and prosper in an entrepreneurial environment. (Cross-listed with ECON 4730, BSAD 8736.)

**Prerequisite(s):** ECON 2200 or permission of the instructor for all students.

**ECON 8856 ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (3 credits)**

This course exposes students to the field of Urban Economics with a focus on the latest theories and empirical tools used by economic development experts to measure urban and regional activity and develop strategies for future economic growth and prosperity. As such, students will learn where to find urban and regional data and how to best utilize such data. This combination of theory and practical application is ideal for any student studying economics, business, public policy or political science and those who might be interested business location, urban and rural growth and economic development more generally. (Cross-listed with ECON 4850).

**Prerequisite(s):** MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a "C" (2.0) or better, or permission of instructor.

**ECON 8910 SPECIAL STUDIES IN ECONOMICS (3 credits)**

This course will focus on issues or developments in a specific area of economics or business.

**Prerequisite(s):** Graduate student in good standing and as indicated for specific workshop or seminar.

**ECON 8920 INDEPENDENT STUDY (1-3 credits)**

Guided independent study and research.

**Prerequisite(s):** Graduate student in economics and permission of instructor.

**ECON 8940 ECONOMIC INTERNSHIP (1-3 credits)**

Guided internship in a firm or organization that makes use of, or extends, the student's skill in economics.

**Prerequisite(s):** Completion of at least nine hours of graduate level economics and permission of instructor.

**ECON 8990 THESIS (1-6 credits)**

An independent research project, written under the supervision of a graduate adviser in the department of economics. Approval of the topic and the completed project by departmental committee is required.

**Prerequisite(s):** Approval of the topic and the completed project by departmental committee is required.

## Educational Leadership (EDL)

### Educational Leadership Graduate Courses

**EDL 8000 SPECIAL STUDIES IN EDUCATIONAL LEADERSHIP (3 credits)**

This course will provide candidates in educational leadership with the opportunities and experiences of in-depth study of a specialized area of practice and research in school leadership.

**Prerequisite(s):** Admission to Graduate Studies or permission of instructor.

**EDL 8010 INTRODUCTORY RESEARCH METHODS (3 credits)**

The Introductory Research Methods course will introduce graduate degree candidates to foundational topics in quantitative, qualitative, and mixed methods research. Particular attention will be given to aligning evidence based literature frameworks with research methodology and data analysis techniques. The course will also prepare graduate students to generate ethically considered research topics and formally evaluate and present research findings in written form.

**Prerequisite(s):** Graduate Standing

**EDL 8020 EDUCATIONAL POLICY AND LEADERSHIP (1 credit)**

This course explores the expanded federal and state presence in local school districts. Historical and political factors influencing the governance of today's schools are explored, as well as current trends and policy decisions.

**Prerequisite(s):** Acceptance to Graduate Studies or department permission.

**EDL 8030 INTRODUCTION TO EDUCATIONAL LEADERSHIP (3 credits)**

This course is designed to introduce the beginning school leadership candidate to theories and practices of organization, motivation, leadership, and change processes, in order to develop an understanding of schools as complex organizations and the nature and challenges of leadership.

**Prerequisite(s):** Admission to UNO Graduate Studies or department permission.

**EDL 8050 SCHOOL-COMMUNITY CONNECTIONS (3 credits)**

School leaders engage the external and internal communities in their buildings and districts. This course assists candidates in developing an understanding of school-community relations, practicing the skills of positive influence with education stakeholders, and refining the dispositions of responsible citizenship by connecting to diverse community needs.

**Prerequisite(s):** Admission to Graduate Studies or department permission.

**EDL 8100 INDEPENDENT STUDY IN EDUCATIONAL LEADERSHIP (1-6 credits)**

This course is designed to allow graduate candidates in educational leadership to pursue independent study of a topic under the direction and guidance of a faculty member. Topics studied and the nature of the learning activities are mutually agreed upon by the candidate and instructor. This course will prepare school leaders as practitioners and researchers who can meet the dynamic challenges of education.

**Prerequisite(s):** Admittance to the doctoral program in educational administration/leadership, or instructor permission.

**EDL 8310 ISSUES IN TECHNOLOGY FOR SCHOOL LEADERS (1 credit)**

This class addresses the unique needs that those in administrative positions encounter in the constantly changing world of technology. Topics include: managing sustainability and obsolescence; ethics and policies for faculty, staff and students-including prevention of cyberbullying; technology for teaching and learning; and technology for business and accountability.

**EDL 8320 ESSENTIALS OF DATA ANALYSIS AND PRESENTATION (1 credit)**

This course is designed to give graduate students a foundational understanding of how information is processed, interpreted, and presented to provide school leaders with the ability to make data informed decisions. Major topics include how usable information can be extracted from tests and surveys, how probability is used to make claims from data sets, how charts and tables can be most effectively leveraged to understand the full scope of data sets, and how to publish results.

**EDL 8330 LEADING THE CURRICULUM PROCESS (1 credit)**

This course will prepare leaders to approach curricular processes with flexibility grounded in research-based practice. Curricular processes that utilize collaboration, collective efficacy, professional growth and learning, as well as a system level approach are critical to meeting the needs of all learners. This class addresses the core components of a research driven process, from preparing to lead the process all the way to implementing materials.

**EDL 8340 ISSUES IN IDENTITY, CULTURE, AND POWER (1 credit)**

This class promotes personal reflection and content awareness needed for educational leaders to promote racial equity in education. Topics include structural racism, bias, historical context of educational policy, and a call to action for racial justice in education.

**EDL 8350 ISSUES IN MANAGEMENT FOR SCHOOL LEADERS (1 credit)**

This class addresses the unique needs that those in educational leadership positions encounter when determining resource management of non-instructional systems. Topics include resource acquisition and management, using resources effectively, and oversight of facilities.

**EDL 8360 CURRENT ISSUES IN SPECIAL EDUCATION ADMINISTRATION (1 credit)**

The purpose of this course is to examine special education administration and leadership issues. This course will focus on policies and procedures necessary to effectively provide leadership to programs for children and youth with disabilities.

**Prerequisite(s):** Graduate standing.

**EDL 8370 ISSUES IN NEBRASKA EDUCATION POLICY (1 credit)**

This class promotes personal reflection and content awareness needed for educational leaders to impact state education policy. Topics include current federal education policy, Nebraska education policy, district-level policy, Nebraska legislative processes, advocacy and voice, analysis of a current education policy (e.g., Accountability), and activating student advocacy on current legislative issues.

**EDL 8380 ISSUES IN HOPE LEADERSHIP (1 credit)**

This class promotes personal reflection and content awareness needed for educational leaders cultivate, model, and lead with hope. Hope is the combination of personal agency and cultivation of pathways. Hope can be taught and practiced. Educational leaders must know how to lead when things are hard. Leading with hope is an essential component of successful leadership service. Topics include hope theory, hope practice, hope measurement, & identification of hope for self, others, and the organization.

**EDL 8390 ISSUES IN EDUCATIONAL LEADERSHIP PIPELINE (1 credit)**

It is a leader's responsibility to develop future leaders. There is currently a superintendent shortage across the nation. The current teacher shortage will lead to a principal shortage. Thus, current leaders must be intentional about developing future principals and other educational leaders. This class promotes personal reflection and content awareness in cultivating an educational leadership pipeline. Topics include knowing self as leader, impact and influence on others, building leadership in others, and systems-level leadership for continuous learning.

**EDL 8400 ELEMENTARY SCHOOL INTERNSHIP IN EDUCATIONAL LEADERSHIP (3 credits)**

Elementary internship is designed to provide practice in elementary and general and special education administration and supervision according to the interests and needs of the candidates. Candidates will work with practicing administrators and a university supervisor.

**Prerequisite(s):** Candidates must be enrolled in the Master's and/or the Building Administration Endorsement program in Educational Leadership and be in their last year of the program or have department permission. Permit to enroll from department is required.

**EDL 8410 SECONDARY SCHOOL INTERNSHIP IN EDUCATIONAL LEADERSHIP (3 credits)**

Secondary school internship is designed to provide practice in 7-12 and general and special education administration and supervision according to the interests and needs of the candidates. Candidates will work with practicing administrators and a university supervisor.

**Prerequisite(s):** Candidates must be enrolled in the Master's and/or the School Administration Endorsement program in Educational Leadership and be in their last year of the program or have department permission. Permit to enroll from department is required.

**EDL 8470 ADMINISTRATION AND SUPERVISION IN SCHOOLS (3 credits)**

This course is designed to prepare educational leaders as dedicated practitioners, reflective scholars, and responsible citizens as they relate to the administration of a school site and system. This course is specifically designed to address the problems, issues, and opportunities of building level leadership.

**Prerequisite(s):** Admission to Graduate College. Not open to non-degree graduate students.

**EDL 8490 INSTRUCTIONAL LEADERSHIP (3 credits)**

School leaders serve as instructional leaders in their buildings and districts. This course assists candidates in developing knowledge and practicing skills necessary to lead educators and schools in the areas of instruction and curriculum.

**Prerequisite(s):** Admission to the Graduate College

**EDL 8550 SCHOOL BUSINESS MANAGEMENT (3 credits)**

This course will analyze the functions of school business management: budgetary processes, financial accounting, auditing and reporting, management of funds, purchasing procedures, transportation, food services, insurance and inventory control.

**Prerequisite(s):** EDAD8030 (previously or concurrently). Not open to non-degree graduate students.

**EDL 8560 SCHOOL FINANCE (1 credit)**

This course provides a study of the current sources of school financing: local, state, and federal. In addition to a review of the history of school finance, emphasis is placed on current problems in school finance, especially those related to overseeing the financial aspects of a school district.

**Prerequisite(s):** EDL 8350 or permission of the instructor.

**EDL 8596 FOUNDATIONS OF LEADERSHIP DEVELOPMENT (3 credits)**

Leadership development is an educational outcome for college students, and at UNO, is strongly encouraged. This course will expose students to foundational leadership theories and challenge them to explore personal and social competencies associated with effective collaboration and leadership. (Cross-listed with EDL 4590).

**EDL 8620 SCHOOL PLANTS AND EQUIPMENT (3 credits)**

This course is designed for aspiring superintendents and central office leaders. It will prepare school leaders to be proactive in developing specifications for school buildings that will enhance educational processes. It includes planning procedures for new and remodeled buildings, soliciting support for projects, site selection, design, maintenance and operations of school buildings.

**Prerequisite(s):** Admission to Graduate College

**EDL 8710 INTERPERSONAL RELATIONSHIPS IN EDUCATIONAL LEADERSHIP (3 credits)**

This course deals with the establishment of quality interpersonal and group relations among adults in school settings. Candidates will develop an increased awareness of their own and others' perspectives and will develop dispositions and skills that will allow them to work more productively. This course does not meet the requirements of Nebraska law LB 250 (Multi-Cultural and Interpersonal Relations).

**Prerequisite(s):** Admission to the Graduate Studies and Department of Educational Leadership or department permission.

**EDL 8720 MULTICULTURAL AND NON-SEXIST AWARENESS (1 credit)**

This course is designed for certificated educational employees, both teachers and administrators, seeking renewal of Nebraska certification under Nebraska LB 250 (Multi-Cultural and Interpersonal Relations). This course meets the requirements of Nebraska law LB 250 (Multi-Cultural and Interpersonal Relations). The purpose of the course is to develop awareness of cultural diversity in American society and to develop skills to effectively meet the needs of students, parents, and school community members.

**Prerequisite(s):** Graduate level. Permit of department required.

**EDL 8730 COMMUNICATION AND CULTURE IN EDUCATIONAL HUMAN RESOURCES (1 credit)**

This course focuses upon the interpersonal and professional knowledge, skills, and dispositions of human resources issues and functions for effective leadership in education.

**Prerequisite(s):** Admission to Graduate College.

**EDL 8740 PROFESSIONAL DEVELOPMENT FOR SCHOOL LEADERSHIP (1 credit)**

This course addresses strategies and models of planning, implementing, and evaluating adult and organizational learning for effective leadership in education.

**Prerequisite(s):** Admittance to Graduate College. Not open to non-degree graduate students.

**EDL 8750 FUNDAMENTALS OF HUMAN RESOURCES IN EDUCATION (1 credit)**

This course examines the frameworks that schools utilize to recruit, select, place, and support faculty and staff. School leaders need human resources skills and knowledge in order to effectively implement strategies and policies related to staff management, motivation, and evaluation.

**Prerequisite(s):** Admission to Graduate College. Not open to non-degree graduate students.

**EDL 8780 EDUCATIONAL LEADERSHIP SUMMIT (2 credits)**

The leadership summit in educational leadership synthesizes the program of school administration, supervision, and management in a manner that can be professionally presented and clearly articulated.

**Prerequisite(s):** Twenty four credit hours must be completed or taken concurrently in educational leadership. Department permit to enroll is required. Not open to non-degree graduate students.

**EDL 8800 SCHOOL LEADERSHIP ACADEMY (3 credits)**

A leadership course designed for current and aspiring school administrators and teacher-leaders. The course content will relate administrative theory to operations of schools drawing on research, models, and various organizational structures. This course is specifically designed to bridge leadership and management theory to the practical operations of schools.

**Prerequisite(s):** Advisor's approval.

**EDL 8810 URBAN SCHOOL LEADERSHIP (3 credits)**

This course is designed to acquaint candidates with urban concerns and issues which most significantly affect the administration of schools in and around metropolitan areas.

**Prerequisite(s):** Admission to Graduate College.

**EDL 8900 SPECIAL EDUCATION LAW (3 credits)**

The purpose of this course is to research and explore legal and policy issues affecting special education within our schools. Case law will be examined to ensure effective special education programs for children and youth with disabilities. (Cross-listed with SPED 8900).

**Prerequisite(s):** Graduate Standing. Not open to non-degree graduate students.

**EDL 9000 FUNDAMENTALS OF RESEARCH DESIGN (3 credits)**

This course will provide direction and assistance concerning principles of empirical research design as related to topics in educational leadership. Instruction as to appropriate format, style, and content of educational research as well as designing methodology for dissertation proposal will be emphasized.

**Prerequisite(s):** Admission to Graduate College. Students should be degree-seeking to take the course. Not open to non-degree graduate students.

**EDL 9010 ADVANCED SEMINAR IN EDUCATIONAL RESEARCH (1 credit)**

This seminar will provide support for doctoral candidates in applying skills of educational research to the development of a successful dissertation proposal.

**Prerequisite(s):** Admission to Graduate College. Completion of EDL 9000 or permission from instructor. Not open to non-degree graduate students.

**EDL 9020 CONCEPTS AND CONTEXTS FOR LEADERSHIP IN SCHOOL LIBRARIES (3 credits)**

Concepts and Context for School Libraries will introduce candidates to the broad landscape of school librarianship and its relationship to the greater library and information profession.

**Prerequisite(s):** Admission to the University of Nebraska Doctoral Program in Educational Administration or other University of Nebraska doctoral program in education, and instructor permission. Not open to non-degree graduate students.

**EDL 9110 FIELD PROJECT IN EDUCATIONAL ADMINISTRATION (1-3 credits)**

Administrative practitioners will study a current or anticipated educational problem using research techniques. Candidates will review a change process to their school or district that has recently been implemented or is under consideration for future implementation as the capstone work for the Educational Specialist degree.

**Prerequisite(s):** Admittance to the Ed.S. program and completion of EDL 9200. Candidates are encouraged, but not required, to utilize the project from EDL 9200 for the focus of the field project. Not open to non-degree students.

**EDL 9200 ADVANCED PRACTICUM IN EDUCATIONAL ADMINISTRATION (3 credits)**

This course is an independent, advanced practicum course meant to help practitioners prepare to be reflective scholars. It builds upon theory and practice of educational leadership and provides a guided experience.

**Prerequisite(s):** Admittance to the Ed.S. program and completion of EDL 9200. Candidates are encouraged, but not required, to utilize the project from EDL 9200 for the focus of the field project. Not open to non-degree students.

**EDL 9310 ISSUES IN STRATEGIC PLANNING FOR SCHOOL LEADERS (1 credit)**

Strategic planning is critical to the health, growth and sustainability of a school district. The process provides an opportunity to prioritize goals, actions, time and resources on key initiative. This course will examine the strategic planning processes used by leaders to guide educational change and improvement.

**EDL 9320 LEGAL ISSUES IN SPECIAL EDUCATION (1 credit)**

School Leaders have an obligation to know the rights of students with disabilities and the laws and policies that protect those rights. This course will focus on the mandatory requirements of Individuals with Disabilities Education Improvement Act (IDEIA) of 2004; the Americans with Disabilities Act (ADA) of 1990, amended in 2008 and the Rehabilitation Act of 1973, Section 504 along with program mandates and the case law that protects these students.

**EDL 9330 ISSUES IN SCHOOL OPERATIONS (1 credit)**

This course addresses leadership issues that current and prospective school leaders will find applicable as they earn certification as a superintendent, principal, curriculum supervisor, or special education leader. This one-hour course will provide knowledge and skills educational leaders will need to effectively and efficiently lead a public or private school building, program, or school district. Course modules will engage candidates in developing a leadership entry/transition plan, a leadership succession plan, and a leadership succession board policy and administrative procedures.

**EDL 9340 CONTEMPORARY ISSUES IN SCHOOL LAW (1 credit)**

This course is concerned with the most recent legal challenges and judicial decisions that are impacting schools. Topics include the most recent decisions from all levels of the courts up to the Supreme Court. School leaders will help prevent litigation by understanding the implications of current cases for the purpose of work with students, staff, faculty and community members without infringing upon their due process rights. School leaders may use the current decisions to update student and faculty handbooks and understand the critical need for guidance by school district legal counsel.

**Prerequisite(s):** School Law 9540 Legal Issues in Special Education Law 8920 or Instructor permission

**EDL 9500 FRAMEWORKS OF BEST PRACTICE: LEADERSHIP IN SCHOOL LIBRARIES (3 credits)**

This class will explore best practice in school libraries using the framework of current national standards for school librarianship preparation programs. Major areas for exploration include but are not limited to teaching for learning, literacy and reading, information and access, advocacy and leadership, and program management and administration.

**Prerequisite(s):** Admission to the University of Nebraska Joint Doctoral Program in Educational Administration pursuing studies in educational leadership with an emphasis in school librarianship or with instructor permission. Not open to non-degree graduate students.

**EDL 9510 SEMINAR IN CULTURE AND CONTEXT OF SCHOOLING (3 credits)**

An advanced seminar designed to enhance understanding of the cultural and social forces, trends, and issues that influence the delivery and effectiveness of schooling.

**Prerequisite(s):** Admission to the Department of Educational Administration and Supervision and the Ed.D. Program. Not open to non-degree graduate students.

**EDL 9520 ACHIEVING SCHOOL EXCELLENCE (3 credits)**

An advanced seminar on the pursuit of improvement in education and the role of administration in guiding positive school change through influence, persuasion, power, ethics, and research.

**Prerequisite(s):** Admission to the University of Nebraska Joint Doctoral Degree program or admission to another University of Nebraska doctoral program. Not open to non-degree graduate students.



**EDL 9530 PARADIGMS AND PRACTICES OF SCHOOLING (3 credits)**

This is an advanced seminar to explore leadership and supervisory practices. Particular attention will be given to organizational conceptualizations (paradigms) for addressing current educational problems and issues. Candidates will be encouraged to think outside the traditional frames of education in order to improve student achievement in PK-12 schools. When a paradigm shifts, the way we view the world and what we assume to be true dramatically changes. When faced with shifting circumstances, school leaders can turn change into opportunity and opportunity into success.

**Prerequisite(s):** Admittance to the UNO-UNL Joint Doctorate Program. Not open to non-degree graduate students.

**EDL 9540 SCHOOL LAW (3 credits)**

This course is concerned with laws related to schools. Topics include certification, contract, negligence, student rights, due process, curriculum, and discipline. Each topic is approached through study of most recent court cases.

**Prerequisite(s):** Admission to Graduate Studies or instructor permission. Not open to non-degree graduate students.

**EDL 9550 SYMPOSIUM ON SCHOOL LEADERSHIP (3 credits)**

The purpose of this seminar is to relate research, theory, and practice in educational organizations. The course is designed to engage candidates with a systematic examination of school reform, best practices, and the implications for practitioners. The symposium will involve candidates with the changing roles and functions of educational leaders in rapidly changing metropolitan educational environments.

**Prerequisite(s):** Admission to Graduate Studies or permission of instructor.

**EDL 9610 STATISTICAL METHODS FOR THE BEHAVIORAL SCIENCES (2 credits)**

This course is designed to help graduate students develop competence in understanding and applying statistical methods for the behavioral and social sciences. The course introduces broad historically based topics in statistics such as probability theory, the Law of Large Numbers, and the Central Limit Theorem to develop conceptually based models for hypothesis testing, description of data, and statistical inference. Emphasis is placed on the evaluation and interpretation of statistical methods used in published research and the development of analytic models in dissertation research.

**Prerequisite(s):** Admission to the Doctor of Education (Ed.D.) program in Educational Leadership or Department/Instructor's permission.

**EDL 9620 NON PARAMETRIC STATISTICS FOR THE BEHAVIORAL AND SOCIAL SCIENCES (2 credits)**

This course is designed to help graduate students develop skills in calculating and interpreting Non-Parametric data analytics. The course includes the application of nonparametric inferential and relational techniques. The statistical analyses include: Chi-squared family of tests, Mann-Whitney U, Wilcoxon Signed-Ranks and Rank-Sums, Kruskal-Wallis ANOVA, Spearman and Biserial correlations, Graphical analytics of Hierarchical Clustering, Dendrograms, K-Means Clustering, and Logistical Regression. Technology applications will include Excel statistical packages for Non-Parametric testing.

**EDL 9630 QUALITATIVE RESEARCH (3 credits)**

Qualitative Research develops skills and competence in designing, collecting, and analyzing data for studies in educational research.

**Prerequisite(s):** EDL 9610 or equivalent. Not open to non-degree graduate students.

**EDL 9650 PROGRAM EVALUATION FOR EDUCATIONAL ADMINISTRATORS (3 credits)**

This course provides an introduction to program evaluation theory and practice. It will address the range of approaches within education human service program evaluation, the standards established by the profession, the "how to" of program evaluation, and the skills needed to conduct program evaluation.

**Prerequisite(s):** Admission to the Graduate College or instructor's permission.

**EDL 9660 STRATEGIC LEADERSHIP FOR SCHOOL LIBRARIES (3 credits)**

This course will focus on the political, economic and social trends that have shaped school libraries and develop the skills and dispositions required for leaders of 21st Century school library programs.

**Prerequisite(s):** Admission to the University of Nebraska Joint Doctoral Program in Educational Administration or to any other doctoral program in the University of Nebraska, or instructor permission. Not open to non-degree graduate students.

**EDL 9670 INQUIRY AND RESEARCH FOR LEADERSHIP IN SCHOOL LIBRARIES (3 credits)**

Inquiry and Research for Leadership in School Librarianship will examine current research in the school library field and focus on action research based on authentic need.

**Prerequisite(s):** Admission to the University of Nebraska Joint Doctoral Program in Educational Administration or to any other doctoral program in the University of Nebraska, or instructor permission. Not open to non-degree graduate students.

**EDL 9680 QUALITATIVE RESEARCH: FOUNDATIONS & APPROACHES (2 credits)**

Qualitative research is social research that aims to investigate how people make sense of their ideas. This course will engage students in considering perspective, acknowledging positions, framing a study, and choosing a research approach (methodology).

**Prerequisite(s):** Admission to the Doctor of Education (Ed.D.) program in Educational Leadership or Department/Instructor's permission.

**EDL 9690 QUALITATIVE RESEARCH: COLLECTION & ANALYSIS (2 credits)**

Qualitative research is social research that aims to investigate how people make sense of their ideas. This course is about collecting data, applying qualitative data analysis strategies, and academic writing.

**Prerequisite(s):** Admission to the Doctor of Education (Ed.D.) program in Educational Leadership or Department/Instructor's permission.

**EDL 9980 SUPERINTENDENT INTERNSHIP IN EDUCATIONAL ADMINISTRATION (3 credits)**

This course is a guided, field-based internship for candidates seeking the school superintendent endorsement from the Nebraska Department of Education (NDE). The internship will provide candidates with experiences in the various roles and responsibilities of a superintendent.

**Prerequisite(s):** Admittance to the the EdD or EdS in educational administration or departmental permission. Candidates must submit an internship application by April 1 for following fall term.

**EDL 9990 DISSERTATION (1-12 credits)**

The course provides doctoral candidates in Educational Administration and Supervision with a process to complete a dissertation research plan. The course learning activities will focus on the completion of a candidate's dissertation. The course is designed to allow advanced doctoral candidates to demonstrate technical mastery of the discipline and to advance knowledge by completing an investigation.

**Prerequisite(s):** Admittance to the EdD in Educational Administration. Department permit to enroll required. Not open to non-degree graduate students.



# Electrical and Computer Engineering (ECEN)

## Electrical and Computer Engineering Graduate Courses

### ECEN 800 ELECTRONIC INSTRUMENTATION (3 credits)

Applications of analog and digital devices to electronic instrumentation. Includes transducers, instrumentation amplifiers, mechanical and solid state switches, data acquisition systems, phase-lock loops, and modulation techniques. Demonstrations with working circuits and systems. (Cross-listed with ECEN 400)

**Prerequisite(s):** Senior Standing in Engineering or Permission. Not open to non-degree graduate students.

### ECEN 806 POWER SYSTEMS ANALYSIS (3 credits)

Symmetrical components and fault calculations, power system stability, generator modeling (circuit view point), voltage control system, high voltage DC transmission, and system protection. (Cross-listed with ECEN 406)

**Prerequisite(s):** ECEN 338. Not open to non-degree graduate students.

### ECEN 807 POWER SYSTEMS PLANNING (3 credits)

Economic evaluation, load forecasting, generation planning, transmission planning, production simulation, power plant reliability characteristics, and generation system reliability. (Cross-listed with ECEN 407)

**Prerequisite(s):** ECEN 305. Not open to non-degree graduate students.

### ECEN 808 ENGINEERING ELECTROMAGNETICS (3 credits)

Applied electromagnets: Transmission lines in digital electronics and communication. The quasistatic electric and magnetic fields; electric and magnetic circuits and electromechanical energy conversion. Guided waves; rectangular and cylindrical metallic waveguides and optical filters. Radiation and antennas; line and aperture antennas and arrays. (Cross-listed with ECEN 408)

**Prerequisite(s):** ECEN 306. Not open to non-degree graduate students.

### ECEN 810 MULTIVARIATE RANDOM PROCESSES (3 credits)

Probability space, random vectors, multivariate distributions, moment generating functions, conditional expectations, discrete and continuous-time random processes, random process characterization and representation, linear systems with random inputs. (Cross-listed with ECEN 410)

**Prerequisite(s):** ECEN 305. Not open to non-degree graduate students.

### ECEN 815 DIGITAL IMAGE PROCESSING (3 credits)

Topics covering the spatial and spectral analysis of digital image processing systems, the design of multi-dimensional digital filters and systems, and advanced theories and technologies in digital image processing systems.

**Prerequisite(s):** ECEN 424 or ECEN 824 or permission.

### ECEN 816 MATERIALS AND DEVICES FOR COMPUTER MEMORY, LOGIC, AND DISPLAY (3 credits)

Survey of fundamentals and application of devices used for memory, logic, and display. Magnetic, superconductive, semi-conductive, and dielectric materials. (Cross-listed with ECEN 416)

**Prerequisite(s):** PHYS 2120, not open to non-degree graduate students.

### ECEN 817 SEMICONDUCTOR FUNDAMENTALS II (3 credits)

Analysis of BJT's and MOSFET's from a first principle materials viewpoint. Statics and dynamic analysis and characterization. (Cross-listed with ECEN 417.)

**Prerequisite(s):** ECEN 421 or ECEN 821. Not open to non-degree graduate students.

### ECEN 820 PLASMA PROCESSING OF SEMICONDUCTORS (3 credits)

Physics of plasmas and gas discharges developed. Includes basic collisional theory, the Boltzman equation and the concept of electron energy distribution. Results are related to specific gas discharge systems used in semiconductor processing, such as sputtering, etching, and deposition systems. (Cross-listed with ECEN 420)

**Prerequisite(s):** Senior or graduate Standing. Not open to non-degree graduate students.

### ECEN 821 PRINCIPLES OF SEMICONDUCTOR MATERIALS AND DEVICES I (3 credits)

Introduction to semiconductor fundamentals, charge carrier concentration and carrier transport, energy bands, and recombination. PN junction, static and dynamic, and special PN junction diode devices. (Cross-listed with ECEN 421)

**Prerequisite(s):** PHYS 2130. Not open to non-degree graduate students.

### ECEN 824 DIGITAL SIGNAL PROCESSING (3 credits)

The temporal and spectral analysis of digital signals and systems, the design of digital filters and systems, and advanced systems including multi-rate digital signal processing techniques. (Cross-listed with ECEN 424)

**Prerequisite(s):** ECEN 355

### ECEN 828 POWER ELECTRONICS (4 credits)

Basic analysis and design of solid-state power electronic devices and converter circuitry. (Cross-listed with ECEN 428)

**Prerequisite(s):** ECEN 304, ECEN 316.

### ECEN 830 WIND ENERGY (3 credits)

This broad multidisciplinary course will combine engineering principles of both the mechanical/aerodynamical and electrical components and systems, along with economic and environmental considerations for siting and public policy, to appropriately cover the relevant topics associated with all scales of wind energy implementations. (Cross-listed with ECEN 430)

**Prerequisite(s):** Senior standing or permission.

### ECEN 833 MICROPROCESSOR SYSTEM DESIGN (4 credits)

Microprocessor based systems. Architecture; design and interfacing. Memory design, input/output ports, serial communications, and interrupts. Generating assembly ROM code, assembly/C firmware generation, and designing device drivers. (Cross-listed with ECEN 433)

**Prerequisite(s):** ECEN 310 with grade of C or better and ECEN 332 with grade of C or better.

### ECEN 835 EMBEDDED MICROCONTROLLER DESIGN (4 credits)

Microcontroller architecture: design, programming, and interfacing for embedded systems. Timing issues, memory interfaces, serial and parallel interfacing, and functions for common microcontrollers. (Cross-listed with ECEN 435)

**Prerequisite(s):** ECEN 433/ECEN 833, STAT 3800. Pre- or co-req: CSCI 4500.

### ECEN 836 ELECTRIC MACHINES (3 credits)

Provides a solid background in electric machine analysis, covering fundamental concepts, techniques, and methods for analysis and design. Discussion of transformers and presentation of some new systems and applications. (Cross-listed with ECEN 436).

**Prerequisite(s):** PHYS 2120 and ECEN 216

### ECEN 837 PARALLEL AND DISTRIBUTED PROCESS (3 credits)

Parallel and Distributed Processing concepts, principles, techniques and machines. (Cross-listed with ECEN 437).

**Prerequisite(s):** ECEN 435 or ECEN 835

### ECEN 842 BASIC ANALYTICAL TECHNIQUES IN ELECTRICAL ENGINEERING (3 credits)

Applications of partial differential equations, matrices, vector analysis, complex variables, and infinite series to problems in electrical engineering. (Cross-listed with ECEN 442)

**Prerequisite(s):** MATH 2350. Not open to non-degree graduate students.

**ECEN 844 LINEAR CONTROL SYSTEMS (3 credits)**

Classical (transfer function) and modern (state variable) control techniques. Both time domain and frequency domain techniques are studied. Traditional, lead, lag, and PID compensators are examined, as well as state variable feedback. (Cross-listed with ECEN 444)

**Prerequisite(s):** ECEN 304. Not open to non-degree graduate students.

**ECEN 848 DECISION ANALYSIS (3 credits)**

Principles of engineering economy including time value of money, net present value, and internal rate of return. Use of influence diagram and decision tree to structure and analyze decision situations under uncertainty including use of stochastic dominance, value of information, and utility theory. Fundamentals of two-person matrix games including Nash equilibrium. (Cross-listed with ECEN 448)

**Prerequisite(s):** ECEN 305 or STAT 3800

**ECEN 850 BIOINFORMATICS (3 credits)**

This course examines how information is organized in biological sequences such as DNA and proteins and will look at computational techniques which make use of this structure. During this class various biochemical processes that involve these sequences are studied to understand how these processes effect the structure of these sequences. In the process bioinformatics algorithms, tools, and techniques which are used to explore genomic and amino acid sequences are also introduced. (Cross-listed with ECEN 450)

**Prerequisite(s):** Computer programming language and ECEN 305 or STAT 3800 or equivalent.

**ECEN 851 INTRODUCTION TO VLSI SYSTEM DESIGN (3 credits)**

The concepts, principles, and methodology at all levels of digital VLSI system design and focused on gate-level VLSI implementation. (Cross-listed with ECEN 451).

**Prerequisite(s):** ECEN 310

**ECEN 852 INTRODUCTION TO COMPUTER-AIDED DIGITAL DESIGN (3 credits)**

The concepts, simulation techniques and methodology in computer-aided digital design at system and logic levels. (Cross-listed with ECEN 452)

**Prerequisite(s):** ECEN 310

**ECEN 853 COMPUTATIONAL AND SYSTEMS BIOLOGY (3 credits)**

Provides the required biology primer and covers functional genomics, transcriptomics, differential expression, clustering, classification, prediction, biomarker discovery, pathway analysis and network based approaches to high throughput biological data analysis. Includes the development of databases, algorithms, web-based and other tools regarding management and analysis of life science data. Areas of study include DNA, RNA, and protein sequence analysis, functional genomics and proteomics, 3D macromolecule structure prediction, and systems/network approach. (Cross-listed with ECEN 453).

**Prerequisite(s):** By permission.

**ECEN 854 POWER SYSTEMS OPERATION AND CONTROL (3 credits)**

Characteristics and generating units. Control of generation, economic dispatch, transmission losses, unit commitment, generation with limited supply, hydrothermal coordination, and interchange evaluation and power pool. (Cross-listed with ECEN 454)

**Prerequisite(s):** ECEN 838. Not open to non-degree graduate students.

**ECEN 860 LABVIEW PROGRAMMING (3 credits)**

Labview as a programming language and for applications to acquire data, to access the network, control lab instruments, and for video and sound applications. (Cross-listed with ECEN 460)

**Prerequisite(s):** Prior programming experience.

**ECEN 862 COMMUNICATION SYSTEMS (3 credits)**

Mathematical descriptions of signals in communication systems. Principles of analog modulation and demodulation. Performance analysis of analog communication systems in the presence of noise. (Cross-listed with ECEN 462)

**Prerequisite(s):** ECEN 304 and ECEN 305. Not open to non-degree graduate students.

**ECEN 863 DIGITAL SIGNAL PROCESSING (3 credits)**

Discrete system analysis using Z-transforms. Analysis and design of digital filters. Discrete Fourier transforms. (Cross-listed with ECEN 463)

**Prerequisite(s):** ECEN 304. Not open to non-degree graduate students.

**ECEN 864 DIGITAL COMMUNICATION SYSTEMS (3 credits)**

Principles of digital transmission of information in the presence of noise. Design and analysis of baseband PAM transmission systems and various carrier systems including ASK, FSK, PSK. (Cross-listed with ECEN 464)

**Prerequisite(s):** ECEN 462. Not open to non-degree graduate students.

**ECEN 865 INTRODUCTION TO DATA COMPRESSION (3 credits)**

Introduction to the concepts of Information Theory and Redundancy removal. Simulation of various data compression schemes such as Delta Modulation, Differential Pulse Code Modulation, Transform Coding and Runlength Coding. (Cross-listed with ECEN 465)

**Prerequisite(s):** ECEN 305. Not open to non-degree graduate students.

**ECEN 866 TELECOMMUNICATION ENGINEERING I (4 credits)**

Standard telecommunications protocols, architecture of long distance integrated data networks, local area networks, wide area networks, radio and satellite networks. Network management, internetworking, system modeling and performance analysis. (Cross-listed with ECEN 466).

**Prerequisite(s):** ECEN 362; ECEN 461/ECEN 861 prior to or concurrent.

**ECEN 867 ELECTROMAGNETIC THEORY AND APPLICATIONS (3 credits)**

Engineering application of Maxwell's equations. Fundamental Parameters of Antennas, Radiation analysis, and synthesis of antenna arrays. Aperture Antennas. (Cross-listed with ECEN 467)

**Prerequisite(s):** ECEN 306. Not open to non-degree graduate students.

**ECEN 868 MICROWAVE ENGINEERING (3 credits)**

Applications of active and passive devices to microwave systems. Includes impedance matching, resonators, and microwave antennas. (Cross-listed with ECEN 468)

**Prerequisite(s):** ECEN 306. Not open to non-degree graduate students.

**ECEN 869 ANALOG INTEGRATED CIRCUITS (3 credits)**

Analysis and design of analog integrated circuits both bipolar and MOS. Basic circuit elements such as differential pairs, current sources, active loads, output drivers used in the design of more complex analog integrated circuits. (Cross-listed with ECEN 469)

**Prerequisite(s):** ECEN 361. Not open to non-degree graduate students.

**ECEN 870 DIGITAL AND ANALOG VLSI DESIGN (3 credits)**

Introduction to VLSI design techniques for analog and digital circuits. Fabrication technology and device modeling. Design rules for integrated circuit layout. LSI design options with emphasis on the standard cell approach of digital and analog circuits. Lab experiments, computer simulation and layout exercises. (Cross-listed with ECEN 470)

**Prerequisite(s):** ECEN 361. Not open to non-degree graduate students.

**ECEN 871 COMPUTER COMMUNICATION NETWORKS (4 credits)**

This course investigates the standard protocols and hardware solutions defined by the International Standard Organization (ISO) and Institute of Electrical and Electronics Engineers (IEEE) for the computer communications networks. Included are ISO OSI model, IEEE 802.X (Ethernet, token bus, token ring) and Asynchronous Transfer Modals (ATM) networks. (Cross-listed with ECEN 471)

**Prerequisite(s):** ECEN 325

**ECEN 872 IMAGE UNDERSTANDING, PERCEPTION, AND SIGNAL PROCESSING (3 credits)**

Introduces fundamental principles and theory for computer vision, image understanding, and pattern recognition, perception, and signal processing. Specific attention given to analysis of the geometric properties and appearance of objects in images, such as region size, connectedness, topology, color, and texture. (Cross-listed with ECEN 472).

**Prerequisite(s):** ECEN 304 or graduate standing

**ECEN 873 MOBILE AND PERSONAL COMMUNICATIONS (4 credits)**

This course provides basic concepts on mobile and personal communications. Concepts on mobile and personal communications. Modulation techniques for mobile radio, equalization, diversity, channel coding, and speech coding. (Cross-listed with ECEN 473)

**Prerequisite(s):** ECEN 325

**ECEN 874 DIGITAL SYSTEMS (3 credits)**

Synthesis using state machines; design of digital systems; micro programming in small controller design; hardware description language for design and timing analysis. (Cross-listed with ECEN 474)

**Prerequisite(s):** ECEN 370. Not open to non-degree graduate students.

**ECEN 875 SATELLITE COMMUNICATIONS (4 credits)**

The fundamental concepts of satellite communications. Orbits, launching satellites, modulation and multiplexing, multiple access, earth stations, coding, interference and special problems in satellite communications. (Cross-listed with ECEN 475)

**Prerequisite(s):** ECEN 325

**ECEN 876 WIRELESS COMMUNICATIONS (3 credits)**

The fundamental concepts of wireless communications. Basic communications concepts such as multiple access, and spectrum. Propagation, radio, standards, and internetworking. Current issues in wireless communications. (Cross-listed with ECEN 476)

**Prerequisite(s):** ECEN 325 or ECEN 462 prior to or concurrent

**ECEN 877 DIGITAL SYSTEMS ORGANIZATION AND DESIGN (3 credits)**

Hardware development languages, hardware organization and realization, microprogramming, interrupt, intersystem communication, and peripheral interfacing. (Cross-listed with ECEN 477)

**Prerequisite(s):** ECEN 475 or ECEN 874. Not open to non-degree graduate students.

**ECEN 878 PRACTICAL MACHINE LEARNING (3 credits)**

Designed to provide a solid grasp of the methods of machine learning (ML) and how to build powerful ML models for discovering statistical regularities from both structured and unstructured data. Offers an introduction to Deep Learning for Computer Vision and Natural Language Processing. (Cross-listed with ECEN 478).

**ECEN 879 OPTICAL FIBER COMMUNICATIONS (4 credits)**

Fundamentals of lightwave communication in optical fiber waveguides, physical description of fiber optic systems. Properties of the optical fiber and fiber components. Electro-optic devices: light sources and modulators, detectors and amplifiers; optical transmitter and receiver systems. Fiber optic link design and specification; fiber optic networks. (Cross-listed with ECEN 479)

**Prerequisite(s):** ECEN 461/ECEN 861 or permission

**ECEN 880 INTRODUCTION TO LASERS AND LASER APPLICATIONS (3 credits)**

Physics of electronic transition production stimulated emission of radiation. Threshold conditions for laser oscillation. Types of lasers and their applications in engineering. (Cross-listed with ECEN 480)

**Prerequisite(s):** PHYS 2130.

**ECEN 882 ANTENNAS AND RADIO PROPAGATION FOR WIRELESS COMMUNICATIONS (4 credits)**

Fundamental theory of antennas and radio propagation for wireless communications. Basic antenna characteristics and various antennas and antenna arrays. Basic propagation mechanisms and various channel models, such as Friis free space model, Hata model, lognormal distribution, and multipath model. Includes practical antenna design for high radio frequency (RF) with modeling software tools such as Numerical Electromagnetic Code (NEC) and ADvanced Design System (ADS). Design projects will be assigned as the main part of course. (Cross-listed with ECEN 482)

**Prerequisite(s):** ECEN 328

**ECEN 883 RANDOM PROCESSES IN ENGINEERING (3 credits)**

Topics related to the concept of random variables, functions of random variables and random processes.

**Prerequisite(s):** STAT 3800

**ECEN 884 NETWORK SECURITY (4 credits)**

Network security and cryptographic protocols. Classical encryption techniques, block ciphers and stream cyphers, public-key cryptography, authentications digital signatures, key management and distributions, network vulnerabilities, transport-level security, IP security. (Cross-listed with ECEN 484)

**ECEN 885 SPREAD SPECTRUM COMMUNICATIONS (3 credits)**

Introduction to the theory of spread spectrum communications: direct sequence, frequency and time hopping techniques. Topics include properties of pseudo-random binary sequences, low-probability-of-intercept (LPI) and anti-jamming (AJ) methods, performance of spread spectrum systems, applications of spread spectrum techniques in radio frequency and optical code-division multiple access (CDMA) systems.

**Prerequisite(s):** ECEN 463 or ECEN 861 or permission.

**ECEN 886 APPLIED PHOTONICS (3 credits)**

Introduction to the use of electromagnetic radiation for performing optical measurements in engineering applications. Basic electromagnetic theory and light interaction with matter are covered with corresponding laboratory experiments conducted. (Cross-listed with ECEN 486)

**Prerequisite(s):** ECEN 306 or permission. Not open to non-degree graduate students.

**ECEN 888 WIRELESS SECURITY (4 credits)**

A comprehensive overview on the recent advances in wireless network and system security. Covers security issues and solutions in emerging wireless access networks and systems as well as multihop wireless networks. (Cross-listed with ECEN 488)

**Prerequisite(s):** ECEN 325

**ECEN 891 SPECIAL TOPICS IN ELECTRIC AND COMPUTER ENGINEERING IV (1-4 credits)**

Special topics in the emerging areas of electrical, computer and electronics engineering which may not be covered in the other courses in the electrical, and computer engineering curriculum. (Cross-listed with ECEN 491)

**ECEN 892 INDIVIDUAL STUDY IN ELECTRICAL AND COMPUTER ENGINEERING IV (1-3 credits)**

Individual study in a selected electrical, computer or electronics engineering area under the supervision and guidance of a Electrical and Computer Engineering faculty member. (Cross-listed with ECEN 492).

**ECEN 893 INDEPENDENT STUDY IN COMPUTER AND ELECTRONICS ENGINEERING (1-3 credits)**

Individual study at the graduate level in a selected computer or electronics engineering area under the supervision and guidance of a Computer and Electronics Engineering faculty member.

**Prerequisite(s):** Departmentally approved proposal.

**ECEN 895 SPECIAL TOPICS (1-3 credits)**

Special topics in the newly emerging areas of computer and electronics engineering not covered in the other courses in the computer and electronics engineering curriculum.

**ECEN 898 SPECIAL TOPICS IN ELECTRICAL ENGINEERING IV (1-6 credits)**

Offered as the need arises to meet electrical engineering topics for fourth-year and graduate students not covered in other courses. (Cross-listed with ECEN 498)

**ECEN 899 MASTERS THESIS (1-10 credits)**

Masters thesis work.

**Prerequisite(s):** Admission to masters degree program and permission of supervisory committee chair. Not open to non-degree graduate students.

**ECEN 911 COMMUNICATION THEORY (3 credits)**

Applications of probability and statistics to signals and noise; correlation; sampling; shot noise; spectral analysis; Gaussian processes; filtering.

**Prerequisite(s):** ECEN 862, and ECEN 864 or ECEN 810.

**ECEN 912 ERROR CONTROL CODING (3 credits)**

Fundamentals of error correction and detection in digital communication and storage systems. Linear and algebraic block codes; Hamming, BCH and Reed Solomon codes; algebraic decoding techniques; structure and performance of convolutional codes, turbo codes, and trellis coded modulation; MAP, Viterbi, and sequential decoding techniques.

**Prerequisite(s):** ECEN 410 or ECEN 810, and ECEN 464 or ECEN 864, or Permission.

**ECEN 913 ADVANCED ANALOG AND MIXED-SIGNAL INTEGRATED CIRCUITS (3 credits)**

Advanced current mirrors and op-amps. Comparators and sample/hold (S/H) circuits. Band-gap reference circuits. Trans-linear circuits and analog multipliers. Voltage controlled oscillators. Operational trans-conductance amplifiers (OTA's). Switched capacitor circuits. Data converters. Non-linearity, mismatch, and short-channel effects. Continuous time domain integrated filters. Current conveyors. Phase locked loops. Analog CAD.

**Prerequisite(s):** ECEN 869 and permission. Not open to non-degree graduate students.

**ECEN 915 ADAPTIVE SIGNAL PROCESSING (3 credits)**

Adaptive filtering algorithms, frequency and transform domain adaptive filters, and simulation and critical evaluation of adaptive signal processing for real world applications.

**Prerequisite(s):** ECEN 410 or ECEN 810, ECEN 463 or ECEN 863, and permission. Not open to non-degree graduate students.

**ECEN 926 STATISTICAL SIGNAL PROCESSING FOR WIRELESS COMMUNICATION (3 credits)**

Statistical signal processing and applications for wireless communications covering the characteristics of random signals, optimum linear filters, statistical parameter estimation using maximum likelihood (ML) and minimum mean-square error (MMSE) methods, adaptive signal processing using least-mean-square (LMS) and recursive least-square (RLS) approaches, Kalman filtering, and eigenanalysis algorithms. Applications of the statistical signal processing techniques in wireless communications will be explored.

**Prerequisite(s):** ECEN 424 or ECEN 824, ECEN 476 or ECEN 876, and ECEN 883. Not open to non-degree graduate students.

**ECEN 932 ADVANCED POWER ELECTRONICS AND APPLICATIONS (3 credits)**

Analysis and design of power electronic circuits and their applications, including: snubber circuits, resonant converters and soft switching techniques, pulse-width modulation techniques, control of power electronic circuits, power electronics and control for electric machines and wind energy systems, flexible AC-transmission system (FACTS) devices, and high-voltage DC (HVDC) transmission.

**Prerequisite(s):** ECEN 436 or ECEN 836, ECEN 428 or ECEN 828.

**ECEN 935 COMPUTATIONAL INTELLIGENCE (3 credits)**

Computational intelligence paradigms and their applications, including: artificial neural networks, fuzzy logic systems, swarm intelligence, evolutionary computation (e.g. genetic algorithms), machine learning (e.g., supervised learning, unsupervised learning, and reinforcement learning), neurocontrol and adaptive critic designs, and applications of computational intelligence for system identification, state estimation, time series prediction, signal processing, adaptive control, optimization, diagnostics, prognostics, etc.

**Prerequisite(s):** MATH 1970, MATH 2350 and MATH 2050. Good skills using MATLAB. Not open to non-degree graduate students.

**ECEN 946 OPTIMAL FILTERING ESTIMATION AND PREDICTION (3 credits)**

Techniques for optimally extracting information about the past, present, or future status of a dynamic system from noise-corrupted measurements on that system.

**Prerequisite(s):** ECEN 810 or permission. Not open to non-degree graduate students.

**ECEN 957 ADVANCED COMPUTER METHODS IN POWER SYSTEM ANALYSIS (3 credits)**

Power System matrices, sparsity techniques, network equivalents, contingency analysis, power flow optimization, state estimation, and power system restructuring examined via computer methods.

**Prerequisite(s):** ECEN 806. Not open to non-degree graduate students.

**ECEN 959 WIRELESS COMMUNICATIONS (3 credits)**

Principles of wireless communications, including: description of the wireless channel characteristics; ultimate performance limits of wireless systems; performance analysis of digital modulation techniques over wireless channels; diversity techniques; adaptive modulation; multiple-antenna communications; multi-carrier modulation; and multi-user wireless communications.

**Prerequisite(s):** ECEN 864 and permission. Not open to non-degree graduate students.

**ECEN 960 SOLID STATE DEVICES (3 credits)**

Gallium arsenide and silicon devices. Device properties based on structure and physical properties of the materials.

**Prerequisite(s):** ECEN 315, not open to non-degree graduate students.

**ECEN 965 PASSIVE MICROWAVE COMPONENTS (3 credits)**

Application of Maxwell's Equations to the analysis of waveguides, resonant cavities, filters and other passive microwave devices.

**Prerequisite(s):** ECEN 867 or ECEN 868. Not open to non-degree graduate students.

**ECEN 967 INTRODUCTION TO QUANTUM ELECTRONICS (3 credits)**

Introduction to the quantum aspects of electron devices.

**Prerequisite(s):** Not open to non-degree graduate students.

**ECEN 971 SEMINAR (1-12 credits)**

Selected topics.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**ECEN 975 OPTICAL PROPERTIES OF MATERIALS (3 credits)**

Quantum mechanical description of the optical properties of solids (complex refractive index and its dispersion, effects of electric and magnetic fields, temperature, stress; additional special topics as desired).

**Prerequisite(s):** ECEN 967 or permission. Not open to non-degree graduate students.

**ECEN 977 SPACE-TIME WIRELESS COMMUNICATIONS (3 credits)**

Theory of space-time (ST) wireless communication systems. Emphasis will be placed on spatial diversity, smart antenna systems, MIMO capacity of multi-antenna fading channels, space-time signaling, space-time receivers and interference mitigation. Includes overview of more advanced topics such as MIMO-OFDM and current trends in research and industry.

**Prerequisite(s):** ECEN 461, ECEN 463, ECEN 476.

**ECEN 979 NON-LINEAR FIBER OPTIC SYSTEMS (3 credits)**

Linear and non-linear propagations in optical fibers. Topics include fiber non-linearity, fundamentals of optical amplifiers, semiconductor and fiber amplifiers, soliton communications. Applications include high capacity and long distance transmissions, all-optical networks.

**Prerequisite(s):** ECEN 479 or ECEN 879 or permission.

**ECEN 986 OPTOELECTRONICS (3 credits)**

Modern phenomena associated with optoelectronics. Electro-optical effect such as Pockel effect, Kerr effect, and nonlinear optical phenomena. Material and devices used in modern communications, femtosecond lasers, and optical computer systems.

**Prerequisite(s):** ECEN 886. Not open to non-degree graduate students.



**ECEN 991 INDEPENDENT STUDY (1-24 credits)**

Selected topic under the direction and guidance of a faculty member.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**ECEN 992 RESEARCH OTHER THAN THESIS (1-6 credits)**

Supervised non-thesis research and independent study.

**Prerequisite(s):** Permission and graduate standing.

**ECEN 996 TOPICS IN ELECTRICAL ENGINEERING (3 credits)**

Selected topics in electrical engineering.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**ECEN 998 ADVANCED SPECIAL TOPICS (1-3 credits)**

Advanced topics in computer and electronics engineering not covered in other 9000 level courses.

**Prerequisite(s):** Permission.

**ECEN 999 DOCTORAL DISSERTATION (1-24 credits)**

Dissertation research.

**Prerequisite(s):** Admission to doctoral degree program and permission of supervisory committee chair. Not open to non-degree graduate students.

**ECEN 8226 INTRODUCTION TO PHYSICS AND CHEMISTRY OF SOLIDS (3 credits)**

Introduction to structural, thermal, electrical, and magnetic properties of solids, based on concepts of atomic structure, chemical bonding in molecules, and electron states in solid state devices. (Cross-listed with ECEN 4220).

**Prerequisite(s):** Not open to non-degree graduate students.

## Emergency Management (EMGT)

### Emergency Management Graduate Courses

**EMGT 8060 PLANNING, PREPAREDNESS, AND MITIGATION (3 credits)**

This course addresses the pre-disaster phases of Emergency Management, including planning, preparedness, and mitigation. The class covers the National Response Framework (NRF) and the National Incident Management System (NIMS) and their influence on modern community Emergency Management and Homeland Security. EMGT 8060 is intended to prepare students for the various tangible and intangible considerations EMGT professionals face when planning and preparing for disasters, either natural or man-made. (Cross-listed with PA 8160).

**Prerequisite(s):** Students must have completed or be concurrently taking the beginning core of the MPA curriculum.

**EMGT 8430 RESPONSE, RECOVERY & RESILIENCE (3 credits)**

This course addresses the post-impact/disaster phases of Emergency Management, including response, recovery, and resiliency. The class focuses on disasters declarations and assistance, interagency cooperation, unified and incident command, operational application of the National Incident Management System (NIMS), and the political, legal, social, and economic considerations inherent with responding to and recovering from emergencies. (Cross-listed with PA 8430).

**Prerequisite(s):** Students must have completed or be concurrently taking the beginning core of the MPA curriculum.

**EMGT 8600 CONTEMPORARY ISSUES IN EMERGENCY MANAGEMENT (3 credits)**

This course exposes the student to contemporary issues in Emergency Management including how to conduct exercise design, development, and evaluation. What different factors affect administration of emergency management services and what actions are required for planning, preparedness, mitigation, response, and recovery strategies when dealing with Natural Disasters, Medical Pandemics and Outbreaks, and Terrorism/Para Military Events that threaten the United States. (Cross-listed with PA 8610).

**Prerequisite(s):** Students must have completed or be concurrently taking the beginning core of the MPA curriculum.

## Engineering (ENGR)

### Engineering Graduate Courses

**ENGR 807 PROJECT MANAGEMENT (3 credits)**

Project development, role of the project manager, project selection, project planning, budgeting and cost estimation, project scheduling, and project termination.

**ENGR 810 ERGONOMICS (3 credits)**

Introduction to the principles of ergonomics. Information processing, human output and control, workplace design and environmental conditions. Not open to students with credit in ISMG 3150.

**ENGR 815 COGNITIVE ERGONOMICS (3 credits)**

Human factors affecting work. Focus on humans: energy requirements, lighting, noise, monotony and fatigue, learning, simulations versus sequential tasks. Experimental evaluation of concepts.

**ENGR 816 PHYSICAL ERGONOMICS (3 credits)**

Human performance in work. Human response to various environmental and task-related variables with emphasis on physical and physiological effects.

**ENGR 817 OCCUPATIONAL SAFETY HYGIENE ENGINEERING (3 credits)**

Introduction to occupational hygiene engineering with emphasis on workplace environmental quality. Heat, illumination, noise, and ventilation.

**Prerequisite(s):** Senior standing or permission.

**ENGR 823 RELIABILITY ENGINEERING (3 credits)**

System and component reliability analyses of series, parallel and complex systems. Concepts of reliability, availability, and maintainability in design of systems. Methods of reliability testing and estimation.

**ENGR 824 UNIQUE CONCERNS OF ENGINEERING EDUCATION (3 credits)**

The purposes and contexts of engineering education will be illuminated through readings and discussions of its historical roots, current expressions, and future directions. Discussions will delve into the history and trajectory of engineering education and concerns that are uniquely engineering (e.g., engineering design, diversity and inclusion, and teaming).

**ENGR 830 APPLIED STATISTICS AND QUALITY CONTROL (3 credits)**

Systematic analysis of processes through the use of statistical analysis, methods, and procedures; statistical process control, sampling, regression, ANOVA, quality control, and design of experiments. Use of software for performing a statistical analysis.

**Prerequisite(s):** MECH 321.

**ENGR 831 STOCHASTIC PROCESSES (3 credits)**

Fundamentals of stochastic processes and their application in modeling production/inventory control, maintenance and manufacturing systems. Markov and semi-Markov chains, Poisson processes, renewal processes, regenerative processes and Markov decision processes.



**ENGR 833 EVIDENCE-BASED STEM TEACHING STRATEGIES (3 credits)**

This learning experience is designed to provide graduate level training on teaching at the postsecondary level. Evidence-based teaching methods applicable to Science, Technology, Engineering, and Mathematics (STEM) will be investigated and a learner-based pedagogy will be used to engage those in the course to experience STEM practices. The common element of problem solving is emphasized across all STEM disciplines allowing for discovery, exploration, and application of critical thinking skills. Primary tasks include developing a unit on Canvas that includes learning outcomes, lecture and activities, and assessments, a teaching philosophy, and engaging with technologies that support and enhance teaching and learning.

**ENGR 840 DISCRETE EVENT SIMULATION MODELING (3 credits)**

Development of simulation models of discrete systems. Model development, Monte Carlo techniques, random number generators, and output analysis.

**Prerequisite(s):** CONE 206; MECH 321 and CIST 1400 or CSCI 1620 or CSCI 2240 or permission

**ENGR 860 PACKAGING ENGINEERING (3 credits)**

Investigation of packaging processes, materials, equipment and design. Container design, material handling, storage, packing and environmental regulations, and material selection.

**Prerequisite(s):** CONE 206, MECH 321, MECH 373

**ENGR 861 RFID SYSTEMS IN THE SUPPLY CHAIN (3 credits)**

Foundations of Radio Frequency Identification Systems (RFID). The fundamentals of how RFID components of tag, transponder, and antennae are utilized to create RFID systems. Best practices for implementation of RFID systems in common supply operations.

**ENGR 869 TECHNOLOGY, SCIENCE AND CIVILIZATION (3 credits)**

(Lect 2 Dis. 2) This course studies the development of technology as a trigger of change upon humankind, from the earliest tools of Homo Habilis to the advent of the radio telescope in exploring the creation of the universe. The course traces the paths from early science to development of the sciences and technologies that will dominate the new millennium. (869 is for non SET students.) (Cross-listed with ENGR 469).

**Prerequisite(s):** Senior or permission. (ENGR 869 is for non-SET students.)

**ENGR 881 SUPPLY CHAIN OPTIMIZATION (3 credits)**

Foundations of supply chain network modeling. The concepts that support the economic and service trade-offs in supply chain and logistics management. Using decision support system (DSS) to design optimal logistics network models given data requirements and operational parameters. Using leading software packages to model problems arising in strategic management of logistics networks.

**ENGR 882 MATERIAL PLAN IN LOGISTIC SYSTEMS (3 credits)**

Theory, practice and application of inventory, demand and supply planning techniques in multistage environments. Managing economies of scale, uncertainties, capacity constraints, and product availability in a supply chain. Integrated planning, supply chain coordination and technology enablers.

**Prerequisite(s):** MECH 321

**ENGR 883 LOGISTICS IN THE SUPPLY CHAIN (3 credits)**

The process of planning, implementing and controlling the efficient, effective flow and storage of goods, services and related information from the point of origin to the point of consumption. Domestic transportation systems, distribution centers and warehousing, international logistics, logistic system controls, and reengineering logistics systems.

**ENGR 891 SPECIAL TOPICS IN ENGINEERING (1-6 credits)**

Subject matter in emerging areas of engineering and closely related areas not covered in other courses within the College of Engineering graduate programs. Topics, activities, and delivery methods vary.

**ENGR 901 TOTAL QUALITY MANAGEMENT USING SIX SIGMA TECHNIQUES (3 credits)**

Introduction to advanced topics in Engineering Management and the foundations of Total Quality Management (TQM). Costs of quality, statistical tools, initiating change, advanced topics, and TQM in practice. Using DMAIC, DFSS, and CQPQ along with the other industry accepted Six Sigma Quality Techniques.

**ENGR 905 ANALYSIS OF ENGINEERING MANAGEMENT (3 credits)**

Continuation of concepts and principles of engineering management applied to production cases.

**ENGR 906 FINANCIAL ENGINEERING (3 credits)**

Applications of principle and financial economics in industrial and systems engineering. Term structure of interest, capital asset pricing and other capital allocation modes. Evaluation of real-options using binomial lattice, Black Scholes and other pricing models.

**ENGR 919 DETERMINANTS OF OCCUPATIONAL PERFORMANCE (3 credits)**

Focus on the individual in the industrial working environment. Emphasis on evaluation of fatigue, training, shift work, perception, vigilance, and work rest scheduling as they relate to the working environment.

**Prerequisite(s):** Permission.

## English (ENGL)

### English Graduate Courses

**ENGL 8010 SEMINAR: TEXT-BASED RESEARCH METHODS FOR ENGLISH STUDIES (3 credits)**

An overview of the theories, methods and practices for conducting text-based research in English and related disciplines; graduate students gain experience conducting textual analysis and interpretation using relevant theories and methods, and reporting findings.

**Prerequisite(s):** Admission to the graduate program in English or permission of instructor.

**ENGL 8020 SEMINAR: COLLEGE WRITING INSTRUCTION (5 credits)**

The seminar in college writing instruction prepares Graduate Teaching Assistants to fulfill their responsibilities as teachers of first-year composition.

**Prerequisite(s):** Graduate status and a teaching assistantship. Not open to non-degree graduate students.

**ENGL 8026 AMERICAN POETRY TO 1900 (3 credits)**

A comprehensive survey of the American poetic tradition from the 17th to the end of the 19th century. (Cross-listed with ENGL 4020).

**Prerequisite(s):** Graduate standing; ENGL 8010 or ENGL 8030 recommended.

**ENGL 8030 FIELD-BASED RESEARCH METHODS IN ENGLISH STUDIES (3 credits)**

An overview of resources and methods for conducting qualitative, field-based research in English and related disciplines; students gain experience collecting data and analyzing data and reporting findings.

**Prerequisite(s):** Admission to the graduate program in English or permission of instructor. Not open to non-degree graduate students.

**ENGL 8036 AMERICAN POETRY SINCE 1900 (3 credits)**

A survey of the American poetic tradition from the turn of the twentieth-century to the present, focusing on various "schools" such as Imagism, High Modernism, the Harlem Renaissance, Confessional, Beats, and New Formalism. (Cross-listed with ENGL 4030).

**Prerequisite(s):** Graduate Standing; ENGL 8010 or ENGL 8030 recommended

**ENGL 8040 WRITING FOR PUBLICATION (3 credits)**

In this seminar, students will study and practice methods for transforming their scholarly research and/or creative nonfiction into publishable articles and essays, as well as conference papers and other modes of sharing that work publicly. Students will edit and revise previously drafted work with the guidance of instructor feedback, advice from faculty mentors in their fields, and peer review. They will also research the larger structures and expectations of professional publishing in their fields.

**Prerequisite(s):** Graduate standing.

**ENGL 8066 THE AMERICAN NOVEL (3 credits)**

A comprehensive survey of the evolution of the American Novel from the 1780s to the present day. Special emphasis will be placed on how a broad range of authors have responded to changing cultural and historical circumstances, and on how they have expressed widely varying viewpoints depending on their own gender, race, geographic region, and/or ethnicity. (Cross-listed with ENGL 4060).

**Prerequisite(s):** Graduate standing in English

**ENGL 8070 SEMINAR: WALT WHITMAN AND EMILY DICKINSON (3 credits)**

A comprehensive examination of the poetry of Walt Whitman and Emily Dickinson.

**Prerequisite(s):** Graduate Program admission. ENGL 8010 or ENGL 8030 recommended.

**ENGL 8100 SEMINAR: TOPICS IN AMERICAN LITERATURE (3 credits)**

This course involves the investigation of a particular topic (genre, author or group of authors, time period, subject area) in American literature. (The course may be repeated for additional credits under different topics.) Formerly ENGL 8060.

**Prerequisite(s):** Graduate standing; ENGL 8010 or 8030 recommended

**ENGL 8146 AMERICAN LITERARY REALISM AND NATURALISM (3 credits)**

In the late nineteenth and early twentieth century two major literary genres - Realism and Naturalism - emerged in the United States not only to challenge the primacy of Romanticism and its generally optimistic view of life but also to actively engage with the modern America created after the Civil War. This course examines a wide range of realist and naturalist works, written between 1865 and 1914, by an extremely diverse group of male and female authors from different races, ethnicities, regions, religions, and socioeconomic classes. Emphasis will be placed on how various cultural, economic, political, and social factors influenced the construction and reception of these works. (Cross-listed with ENGL 4140).

**Prerequisite(s):** Graduate standing in English

**ENGL 8160 SEMINAR: POSTMODERN FICTION OF THE UNITED STATES (3 credits)**

A seminar in American Fiction from the second half of the twentieth century into the twenty-first century which presents and discusses some of the major trends and issues associated with postmodern culture in America.

**ENGL 8166 TOPICS IN AMERICAN REGIONALISM (3 credits)**

A study of major topics in American literary regionalism, with special emphasis on particular social, cultural, and geographical contexts. Focus will be determined by instructor, but may include particular historical periods, geographic regions, authors, or literary themes. (Cross-listed with ENGL 4160).

**Prerequisite(s):** Graduate standing in English

**ENGL 8190 BOOK-SMART: EDUCATION IN LITERATURES AND CULTURES (3 credits)**

The purpose of this course is to enable a critical consideration of how education is tied inextricably to issues of class, gender, religion, culture, and politics as well as an examination of how literature responds to and represents the theme of education, often also powerfully making the case for outsiders excluded by systems of privilege.

**ENGL 8196 THE AMERICAN NIGHTMARE (3 credits)**

The literature in this course represents and explores major trends that subvert America's fascination with the "American Dream" narrative and even contend its opposite, an "American Nightmare." Over the twentieth century, many writers expressed a disillusionment with the breach that separates experiences in America from the "America" idealized by narratives of the founding roots and the constructed American Dream. Writers who have experienced or witnessed the marginalization or helplessness of large portions of the American population write in a variety of ways about the failures of this American Dream narrative. This course will analyze these expressions in American literature. (Cross-listed with ENGL 4190).

**Prerequisite(s):** ENGL 1160 or permission.

**ENGL 8216 THE HARLEM RENAISSANCE (3 credits)**

"The Harlem Renaissance" was the name given to the explosion in cultural, artistic, and social awareness that occurred primarily in Harlem, an area of New York City, between the end of World War I and the middle of the 1930s. This course will familiarize students with the general characteristics of African American literature produced during this period and its relation to African American literature and American literature writ large. The selected texts and writers will provide particular insight into the historical experiences of African Americans in the U.S. primarily between the two world wars and inform the subsequent cultural production of African Americans in later years. (Cross-listed with ENGL 4210, BLST 4210, BLST 8216).

**Prerequisite(s):** Graduate standing in English

**ENGL 8236 LATINO LITERATURE (3 credits)**

A study of representative works of Mexican-American, Spanish-American, and American writers, along with their cultural and historical antecedents. Formerly ENGL 4180/8186 Chicano Literature and Culture. (Cross-listed with ENGL 4230).

**Prerequisite(s):** Graduate program admission

**ENGL 8246 TEACHING LATINO LITERATURE (3 credits)**

This course is designed specifically for current or future teachers of high school students. It introduces pedagogical approaches of contemporary literature by Latinos/as in the United States. The course provides an overview of Mexican American, Chicano/a, and other Latino/a voices in American literature from mid-19th Century to the present and complement that with social, cultural, historical and other approaches to developing teaching strategies. (Cross-listed with ENGL 4240)

**ENGL 8256 WOMEN'S STUDIES IN LITERATURE (3 credits)**

A critical study of literature by and/or about women in which students learn about contributions of women to literature, ask what literature reveals about the identity and roles of women in various contexts, and evaluates standard interpretations from the perspectives of current research and individual experience. (Cross-listed with ENGL 4250, WGST 4250).

**ENGL 8266 WOMEN OF COLOR WRITERS (3 credits)**

Women of Color Writers is designed to introduce students to the multicultural, literary experience and contributions of women of color writers. The course will elucidate the multi-ethnic and feminist/womanist perspectives reflected in literary works by examining the themes, motifs and idioms about a womanist perspective. The course examines critically the implications and conceptual grounds of literary study which have been based almost entirely on white, male literary experiences and criteria. (Cross-listed with ENGL 4260).

**Prerequisite(s):** Graduate English major or permission of instructor for 8266

**ENGL 8276 WOMEN WRITERS OF THE NORTH AMERICAN WEST (3 credits)**

A survey of U.S. and Canadian women writers (18th century to the present) enabling students to examine issues of gender and sexuality across a wide thematic range, including settlement, land use, cultural displacement, and survival in western territories, states, and provinces of North America. (Cross-listed with ENGL 4270, WGST 4270).

**Prerequisite(s):** Graduate standing; ENGL 8010 or ENGL 8030 recommended.

**ENGL 8286 QUEER AMERICAN WESTS (3 credits)**

A survey of queer literatures about the American West. The course will explore a variety of genres, including poetry, short stories, plays, novels, creative nonfiction, and, depending on time, film/television. "Queer" will be construed as including any "non-normative" sexualities and sexual identities (e.g., genderqueer, winkle, two-spirit, 3rd/4th gender). Non-western writers (e.g., Walt Whitman) imagining the West queerly may also be included. (Cross-listed with ENGL 4280, WGST 3160).

**Prerequisite(s):** ENGL 8010 or ENGL 8030 recommended

**ENGL 8300 SEMINAR: SHAKESPEARE (3 credits)**

A study of Shakespeare's plays and poetry, in historical and modern contexts.

**Prerequisite(s):** ENGL 8010 recommended.

**ENGL 8306 ANGLO-SAXON LITERATURE (3 credits)**

From the sixth to the eleventh centuries, a people known collectively as the Anglo-Saxons ruled Britain, giving it a new name and establishing the roots of the modern English language. Anglo-Saxon culture continues to haunt the modern imagination. We study the historic, artistic and intellectual environment that produced this influential literary tradition. We also place these people, their language, and their writings within the context of the broader early medieval world. Finally, we engage with some of the foremost modern scholars of this fascinating culture. (Cross-listed with ENGL 4300).

**Prerequisite(s):** Graduate standing.

**ENGL 8310 ECOLOGICAL WRITING AND ANALYSIS (3 credits)**

This course provides students with the opportunity to develop expertise in a wide range of foundational works and key techniques of ecological writing and theory in English. By engaging mindfully with these works and techniques, students will develop advanced skills in ecologically oriented critical analysis and creative thinking. This course supports the Writing and Critical Reflection and the Health and the Environment concentrations in the Master of Arts in Critical and Creative Thinking. (Cross-listed with CACT 8310)

**ENGL 8326 CHAUCER (3 credits)**

A literary, linguistic, and historical study of the works of Geoffrey Chaucer: his dream visions, Troilus and Criseyde, and the Canterbury Tales. (Cross-listed with ENGL 4320).

**ENGL 8336 RENAISSANCE SATIRE (3 credits)**

Satirical traditions and the literature of critique and invective as inherited from medieval and classical forms. Considerations will include satire as an aesthetic, philosophical, and political mode of expression; topicality as it relates to and portrays cultural history; and self-representation through humanist learning and response. (Cross-listed with ENGL 4330).

**Prerequisite(s):** Graduate standing

**ENGL 8346 SHAKESPEARE (3 credits)**

A critical study of selected plays and poetry from Shakespeare's works, in the context of the historical and cultural moment of the English Renaissance and as a set of texts inherited and reinvented by modernity. (Cross-listed with ENGL 4340).

**Prerequisite(s):** ENGL 1160

**ENGL 8376 RESTORATION AND EIGHTEENTH CENTURY LITERATURE (3 credits)**

Poetry, prose (exclusive of the novel), and drama of England in the Restoration and 18th century (1660-1800), with emphasis on Swift and Johnson. Formerly ENGL 4620/8626. (Cross-listed with ENGL 4370).

**ENGL 8396 MEDIEVAL CELTIC LITERATURE (3 credits)**

This course examines the literature and culture of the Celtic civilizations. The course examines the archeological record and texts about the Celts by Greek and Roman authors, as well as later medieval tales from the Irish, Welsh, and Breton traditions. All texts are in translation with guided reference to the original languages. (Cross-listed with ENGL 4390).

**Prerequisite(s):** ENGL 2410 or ENGL 2420 and one ENGL course above 3299, or instructor permission; ENGL 2310 recommended. Not open to non-degree graduate students.

**ENGL 8400 SEMINAR: ENGLISH RENAISSANCE (3 credits)**

A seminar in a few significant literary figures of the English Renaissance. Formerly ENGL 8080.

**ENGL 8406 KING ARTHUR THROUGH THE AGES (3 credits)**

Starting with post-medieval selections from the Arthurian corpus, this course follows Arthur back through his many literary incarnations, until we reach the "historical" Arthur (c.1000). We consider the different aesthetic additions, subtractions, and changes made to this secular king of kings within the social and historical contexts of each reincarnation. We also examine Arthur in other media, such as film, with divergent artistic agendas. These other media, too, will be considered within their social and historical contexts in terms of what they have to say about what modern audiences look for in their versions of Arthur and the stories from the Arthurian corpus. All texts are in translation, with guided reference to the original languages. (Cross-listed with ENGL 4400).

**ENGL 8410 IMMIGRATION, MIGRATION, AND DIASPORA: CRITICAL APPROACHES AND THEORIES OF MOVEMENT IN LITERATURE (3 credits)**

This seminar in literature and some film analyzes the depictions in non-fiction and fiction of displacement as a result of immigration, migration, refugee status, or any other considered movement, intentional or imposed. It will focus largely on the U.S. experiences of those displaced from all locales. (Cross-listed with CACT 8410).

**Prerequisite(s):** Graduate standing.

**ENGL 8416 LITERATURE OF THE ROMANTIC PERIOD (3 credits)**

This course surveys literary works published in the Romantic period (roughly, 1789-1832), focusing specifically on those by British, Irish, and Anglophone authors. It considers what these works signify about literary as well as cultural, political, and historical events, movements, or trends. (Cross-listed with ENGL 4410).

**ENGL 8426 NINETEENTH-CENTURY ENGLISH AND ANGLOPHONE LITERATURES (3 credits)**

English and Anglophone poetry and prose (excluding the novel) in the nineteenth century. (Cross-listed with ENGL 4420).

**Prerequisite(s):** Graduate standing

**ENGL 8436 THE BRITISH AND ANGLOPHONE NOVEL (19TH AND 20TH CENTURY) (3 credits)**

Introduction to the British and Anglophone novel in the nineteenth and twentieth century. (Cross-listed with ENGL 4430).

**Prerequisite(s):** Graduate standing

**ENGL 8446 BRAM STOKER: BEYOND DRACULA (3 credits)**

This course examines several major works from Stoker's literary oeuvre: The Snake's Pass (1890), Dracula (1897), The Jewel of Seven Stars (1903), The Lady of the Shroud (1909), and The Lair of the White Worm (1911) and selected short stories. Stoker is one of the more complex figures among the Anglo-Irish literary tradition, so the author and his writing is placed within the social and cultural contexts of late 19th and early 20th century Ireland and England, as well as within broader literary theoretical frameworks - psychoanalytic, gender, and postcolonial criticism among them - for which Stoker's tales continue to provide such rich fodder. (Cross-listed with ENGL 4440).

**ENGL 8456 MODERN IRISH DRAMA (3 credits)**

A survey of the major movements and significant figures associated with Irish drama from the mid-nineteenth to the twenty-first centuries, with special attention to the socio-cultural and historical contexts in Ireland. (Cross-listed with ENGL 4450).

**Prerequisite(s):** ENGL 1160 required; ENGL 2410 or ENGL 2420 recommended

**ENGL 8496 GREAT WORKS OF BRITISH LITERATURE (3 credits)**

This course pursues a trans-historical approach to literary study while interrogating what makes a literary work "great" within the field of British Literature. It allows students to engage with great works of British literature from across the ages - starting with the foundations of British literary history in the medieval period and extending to the present. Attending to formal, thematic, and historical dimensions of a wide array of literary texts, we will increase our appreciation of the many ways texts make meaning while developing a deep understanding of the British literary tradition. Reading literature with a sense of purpose and comparatively across time will allow us not only to appreciate great works but also to enhance the impact they have on us. Furthermore, we will recognize how culture and politics inform what literary works become deemed "great," thereby developing a critical understanding of the process of canon formation. (Cross-listed with ENGL 4490).

**Prerequisite(s):** Graduate standing in English

**ENGL 8610 PROFESSIONAL AND TECHNICAL WRITING (3 credits)**

This course will introduce students to the theory, research, and practices of professional and technical writing. Through readings, discussions, and assignments, students will gain an understanding of the types and circumstances of communication challenges encountered in the workplace. The course will also consider the roles of persuasion and ethics in written communication. (Cross-listed with CACT 8610).

**ENGL 8615 INTRODUCTION TO LINGUISTICS (3 credits)**

An introduction to the concepts and methodology of the scientific study of language; includes language description, history, theory, variation, and semantics as well as first and second language acquisition. (Cross-listed with ENGL 3610).

**ENGL 8626 HISTORY OF ENGLISH (3 credits)**

A critical study of both the internal and external histories of English. Includes historical development of English phonology, morphology, graphics, syntax, diction, dialects, and semantics. (Cross-listed with ENGL 4620).

**ENGL 8630 DIGITAL RHETORIC (3 credits)**

This course provides students with the opportunity to develop expertise in the theory and practice of digital rhetoric by considering technology's deep impact on how we define and engage in writing. Students examine contemporary writing practices as part of a rich rhetorical tradition while they design and create effective multimodal compositions and analyze foundational works in digital rhetoric. This course supports the Writing and Critical Reflection concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with CACT 8630).

**ENGL 8640 CREATIVE NONFICTION IN DIGITAL ENVIRONMENTS (3 credits)**

Students in this course will study creative nonfiction in digital environments, analyze rhetorical situations created in digital environments, which might include, in addition to other modalities, sounds, animations, and hypertext, and create multimodal essays. The course will also focus on the study and analysis of craft-elements of creative nonfiction: narrative persona, tone, rhythm and style, scenic construction, among others. Students taking this course will learn to read with interpretative and analytical proficiency a broad range of creative nonfiction in digital environments. (Cross-listed with CACT 8640).

**ENGL 8646 APPLIED LINGUISTICS (3 credits)**

This course is designed to develop knowledge and skills for second language instructors and others interested in second language learning and instruction. Content covers relevant second language acquisition (SLA) theory and second language pedagogy. (Cross-listed with ENGL 4640)

**Prerequisite(s):** ENGL 3610 and Junior standing or with permission from instructor.

**ENGL 8650 WRITING ACROSS DIFFERENCES: RHETORICAL THEORY FOR PERSUASION AND PUBLIC ADVOCACY (3 credits)**

This course provides students a theoretical foundation for understanding how language is used in various types of discourses and texts as a means of convincing others of a given viewpoint or idea. Students will apply this theory to real-world writing scenarios in their scholarly areas of interest, to advocacy and social issues movements, or to address workplace needs and goals. This course supports the Writing and Critical Reflection concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with CACT 8650).

**ENGL 8656 STRUCTURE OF ENGLISH (3 credits)**

A study of grammar as it has been conceived through history, including traditional prescriptive and descriptive approaches as well as transformational- generative grammar. (Cross-listed with ENGL 4650).

**Prerequisite(s):** ENGL 3610 / ENGL 8615 or permission

**ENGL 8676 SOCIOLINGUISTICS (3 credits)**

An exploration of interconnections between language, culture, and communicative meaning, stressing interactional, situational, and social functions of language as they take place and are created within social contexts. (Cross-listed with ENGL 4670).

**Prerequisite(s):** ENGL 3610/ENGL 8615, or permission.

**ENGL 8696 TOPICS IN LINGUISTICS (3 credits)**

This course introduces students to a specialized subject matter in the discipline of Linguistics not covered in existing courses. This course may be repeated for different topics. (Cross-listed with ENGL 4690).

**Prerequisite(s):** ENGL 3610/ENGL 8615, or permission.

**ENGL 8736 CONTEMPORARY RHETORIC (3 credits)**

A study of contemporary theories and their application with particular attention to invention, form, style, and cultural context. The course will include an overview of ancient rhetoric and address non-Western rhetorics, such as Native-American, Chinese, and Japanese rhetorical theories. Formerly, ENGL 4530/8536. (Cross-listed with ENGL 4730).

**ENGL 8740 SEMINAR: DISCOURSE, CULTURE, AND POWER (3 credits)**

A graduate-level introduction to theories and methodologies of analyzing spoken and written discourse. Students will employ various methods to collect natural language data, including field research, and analyze the data using appropriate theoretical orientations to discourse analysis.

**ENGL 8750 OXBOW WRITING PROJECT (3 credits)**

Oxbow Writing Project summer institute immerses K-16 educators in writing pedagogy via their own writing, presentations about writing and pedagogy, reading and discussing professional literature, designing and implementing an in-depth inquiry project, and developing leadership strengths. Oxbow is a National Writing Project Site. (Cross-listed with TED 8750).

**Prerequisite(s):** Acceptance into Oxbow Writing Project Summer Institute

**ENGL 8756 COMPOSITION THEORY & PEDAGOGY (3 credits)**

This course is an overview of composition theories and pedagogies since 1968 and focuses on how historical movements in education and theoretical frameworks (rhetorical, expressivist, socio-cognitivist, collaborative, social constructionist, critical pedagogy, cultural studies, feminist, technological, and linguistic theories) both enrich and complicate the teaching of composition. (Cross-listed with ENGL 4750).



**ENGL 8760 SEMINAR IN POPULAR CULTURE, MASS MEDIA AND VISUAL RHETORIC (3 credits)**

This course studies how discursive meaning is made through established and emerging visual technologies and the impact visual symbol systems are having upon the field of rhetoric in general. Students will investigate how visual technologies, discourse theory, and semiotic theory has intersected with and expanded contemporary rhetorical theories, and they will apply these theories to visual texts. (Cross-listed with COMM 8200).

**ENGL 8770 L2 COMPOSITION PEDAGOGY (3 credits)**

This course helps prepare students to teach writing to Language Learners. Students will review principles of Second Language Acquisition Theory, study theories of teaching writing, and learn tenets of curriculum design. Students who complete the course will be able to design curricula, courses, syllabi, and lesson plans.

**Prerequisite(s):** Graduate Standing

**ENGL 8775 WRITING CENTER THEORY, PEDAGOGY, AND RESEARCH (3 credits)**

This course is an introduction to writing center theory, pedagogy, research, and history. The course is designed for undergraduate and graduate students interested in or already working in a writing center. Throughout the course we will explore a wide range of models for writing center work and the often problematic metaphors associated with those models. The overall aim in this course will be to help students develop multiple strategies for teaching writing one-to-one, for conducting research in writing centers, and for understanding writing center administration. (Cross-listed with ENGL 3770).

**ENGL 8796 ENGLISH CAREER PREPARATION (1 credit)**

This course will prepare students for an internship or a career, addressing topics such as finding and applying for internships, workplace and industry, resume and cover letters, interviewing techniques, developing a professional portfolio, and statement of goals. Taking this course prior to an internship is highly recommended. (Cross-listed with ENGL 4790).

**Prerequisite(s):** The course is restricted to undergraduate Majors and graduate students in English.

**ENGL 8800 SEMINAR: TOPICS IN ENGLISH LANGUAGE AND LITERATURE (3 credits)**

An intensive study of one or more authors, genres in literature and language not covered by regular courses.

**Prerequisite(s):** Graduate standing

**ENGL 8806 ENGLISH INTERNSHIP (1-3 credits)**

Supervised internship in a professional setting with a local employer or nonprofit organization. Hands-on experience. Work hours, activities, and responsibilities must be specified in a written agreement between the employer and the student in consultation with the internship director. Some internships will be paid and some will not. (Cross-listed with ENGL 4800).

**Prerequisite(s):** ENGL 2410 or ENGL 2420, an ENGL 4000-level writing course, and permission of internship director.

**ENGL 8816 DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS (3 credits)**

This course addresses emerging issues in digital literacies such as the rhetoric of technology, technological competency, technology and information ecologies, critical awareness of technology and human interactions, judicious application of technological knowledge, user-centered design, networking and online communities, ethics and technology, and culture and technology. (Cross-listed with ENGL 4810).

**Prerequisite(s):** Graduate Standing or permission of instructor

**ENGL 8826 AUTOBIOGRAPHY (3 credits)**

In this creative nonfiction writing course, students will craft, workshop, and revise original works of autobiographical nonfiction. Students will read, discuss and critically analyze writing techniques found in diverse autobiographical prose by published authors and student peers. A final project will invite students to research and summarize a book-length autobiography of their own. (Cross-listed with ENGL 4820).

**Prerequisite(s):** graduate standing

**ENGL 8836 TECHNICAL COMMUNICATION (3 credits)**

Technical Communication introduces students to the field of technical communication. Students will study the development of print and electronic genres common to industry settings, the design and production of technical documents, the writing processes and work practices of professional technical communicators, and the roles of technical communicators in organizational contexts. (Cross-listed with ENGL 4830).

**Prerequisite(s):** Graduate standing or permission of instructor.

**ENGL 8846 TRAVEL WRITING (3 credits)**

Travel Writing is a course in professional writing. Although the course includes critical examinations of texts, the primary focus is on the composition of various kinds of travel essays. (Cross-listed with ENGL 4840).

**Prerequisite(s):** Graduate standing

**ENGL 8850 SEMINAR: SPIRITUAL NONFICTION (3 credits)**

Spiritual Nonfiction is a creative nonfiction writing seminar where students study and practice various forms and styles of spiritual nonfiction. The comparative study of spirituality and religion is not the focus of this course. Writing is the focus. Discussion of the characteristics of spiritual experiences and ideas will be limited to their formalistic treatment within individual works.

**Prerequisite(s):** Graduate Standing. At least one creative nonfiction writing course at 4000/8000 level.

**ENGL 8856 INFORMATION DESIGN FOR TECHNICAL COMMUNICATORS (3 credits)**

This course introduces students to strategies for integrating visual and textual elements of technical documents. Instruction will focus on design theory and application through individual and collaborative projects. Students will develop the professional judgment necessary for making and implementing stylistic choices appropriate for communicating technical information to a lay audience. (Cross-listed with ENGL 4850).

**Prerequisite(s):** Graduate standing or permission of instructor.

**ENGL 8860 ADVANCED PLACEMENT INSTITUTE: LITERATURE & COMPOSITION (3 credits)**

An intensive Advanced Placement Summer Institute focusing on curricular and pedagogical questions, paired with independent specialized research into various topics related to the planning, organization, implementation, and improvement of Advanced Placement English Literature and Composition instruction and learning at the secondary educational level. Course may be repeated if the APSI topic is different.

**Prerequisite(s):** Must register for and successfully complete the UNO Advanced Placement Summer Institute for English Literature and Composition.

**ENGL 8866 THE MODERN FAMILIAR ESSAY (3 credits)**

Students in this course will read as well as write the Modern Familiar Essay, a sub-genre of Creative Nonfiction, with an emphasis on writing the informal essay. Essays will represent a wide scope of perspectives and issues, including gender, social class, education, politics, culture, sexuality, health, race, and ethnicity, and will range from the the sixteenth century "inventor" of the modern essay to twenty-first century practitioners of the form. This course will also cover a wide range of sub-genres and stylistic forms, such as memoir, autobiography, flash, experimental, and more. (Cross-listed with ENGL 4860).

**Prerequisite(s):** Graduate standing and/or admittance to the Advanced Writing program

**ENGL 8870 SEMINAR: PUBLISHING NON-FICTION (3 credits)**

A seminar in the process leading to publication of essays in one or more of the following genres: scholarly essay, personal essay, travel essay, pedagogical essay, autobiographical essay.

**Prerequisite(s):** Graduate standing and 6 hours of graduate credit.



**ENGL 8876 TECHNICAL EDITING (3 credits)**

This course introduces students to the roles and responsibilities of technical editors: the editorial decision-making processes for genre, design, style, and production of technical information; the communication with technical experts, writers, and publishers; the collaborative processes of technical editing; and the techniques technical editors use during comprehensive, developmental, copyediting, and proofreading stages. (Cross-listed with ENGL 4870).

**Prerequisite(s):** ENGL 1160 or permission of the instructor

**ENGL 8880 ADVANCED PLACEMENT INSTITUTE: LANGUAGE & COMPOSITION (3 credits)**

An intensive Advanced Placement Summer Institute focusing on curricular and pedagogical questions, paired with independent specialized research into various topics related to the planning, organization, implementation, and improvement of Advanced Placement English Language and Composition instruction and learning at the secondary educational level. Course may be repeated if the APSI topic is different.

**Prerequisite(s):** Must register for and successfully complete the UNO Advanced Placement Summer Institute for English Language and Composition.

**ENGL 8890 SEMINAR: EXPERIMENTS IN CREATIVE NONFICTION (3 credits)**

This is a graduate seminar in creative nonfiction. This course explores, through an intensive engagement with long and short forms of creative nonfiction, the ways in which contemporary practitioners of the genre have experimented with form and meaning. Students will attempt their own experiments in writing.

**Prerequisite(s):** Graduate Standing, Two graduate-level creative nonfiction courses from ENGL 8846, ENGL 8866, ENGL 8870, or ENGL 8800, when topic is appropriate.

**ENGL 8896 CAPSTONE COURSE IN TECHNICAL COMMUNICATION (3 credits)**

In this capstone course, students will extend foundational skills learned in previous technical communication courses. Students will demonstrate their competency in the technical documentation process in organizational environments, the issues important to the technical communication profession, and the practices of writing and creating complex technical documents for specific purpose and audience. (Cross-listed with ENGL 4890).

**Prerequisite(s):** Graduate standing or permission of instructor.

**ENGL 8900 INDEPENDENT STUDY (1-3 credits)**

Specially planned readings in a well-defined field of literature or language, carried out under the supervision of a member of the graduate faculty. Designed primarily for the student who has need of work not currently available in the departmental offering and who has demonstrated capability of working independently.

**Prerequisite(s):** Graduate, permission of instructor, and no "incompletes" outstanding.

**ENGL 8910 SEMINAR: CRITICAL THEORY (3 credits)**

Seminar in critical theory with readings in New Criticism, semiotics, structuralism, deconstruction, New Historicism, feminist and gender theory, cultural materialism, psychoanalytic theory, queer theory, postcolonial theory, New Formalism, and other more recent theoretical developments in literary study.

**Prerequisite(s):** ENGL 8010 recommended.

**ENGL 8936 NARRATIVE NONFICTION (3 credits)**

Students will read, discuss, and write critical analyses of narrative nonfiction by published and student writers. They will craft, workshop, and revise original works of narrative nonfiction. (Cross-listed with ENGL 4930).

**Prerequisite(s):** One creative nonfiction course or permission from the instructor

**ENGL 8946 PUBLISHING THE LINDEN REVIEW (3 credits)**

This course will offer students an experiential learning opportunity within the publishing field. Students will work as an editorial team advised by their instructor to publish a biannual, international, online literary journal named The Linden Review. The Linden Review's mission is to publish high-quality creative nonfiction and book reviews that investigate the complexities of the word health. Health will be defined broadly as a deep understanding and appreciation of bodily, emotional, spiritual, social, political, and environmental well-being. (Cross-listed with ENGL 4940, MEDH 4940).

**Prerequisite(s):** ENGL 1160 or equivalent

**ENGL 8956 BRINGING THE WAR HOME: DEPICTIONS OF WAR VETERANS IN LITERATURE AND FILM (3 credits)**

Course explores the impact of war on combatants, their families and communities as represented in literary fiction, film, historical documentation, first-person accounts, and other texts written in or translated to English. (Cross-listed with ENGL 4950, MEDH 4950).

**Prerequisite(s):** Graduate standing

**ENGL 8966 TOPICS IN LANGUAGE AND LITERATURE (3 credits)**

This course introduces students to a specialized subject matter in the discipline of English Studies not covered in existing courses. This course may be repeated for different topics. (Cross-listed with ENGL 4960).

**Prerequisite(s):** Graduate Standing

**ENGL 8976 WRITING ABOUT SICKNESS AND HEALTH (3 credits)**

Students will explore many themes of the human experience in healthcare through reading and discussion of selected poems, short stories, excerpts from fiction, and essays and creative nonfiction. To help students generate their own poems, stories, and essays, the class will incorporate the work of community writing programs and projects. (Cross-listed with ENGL 4970).

**ENGL 8980 GRADUATE CUMULATIVE EXPERIENCE WORKSHOP SEMINAR (3 credits)**

This workshop seminar is intended to provide graduate students with support and structure as they look to demonstrate the cumulative knowledge acquired and how that knowledge might be used in a practical application beyond the MA degree. The seminar is a workshop where students will present their writing (research review, reflection, and project) and offer feedback to peers. Graduate students who are on the non-thesis plan will take the Cumulative Experience Seminar in the last 9 credits of their MA degree.

**Prerequisite(s):** English Graduate students on non-thesis track; last 9 credits of the MA degree. Not open to non-degree graduate students.

**ENGL 8990 THESIS (3-6 credits)**

Independent research or creative project written under the supervision of a director.

**Prerequisite(s):** Graduate, permission of thesis director. Not open to non-degree graduate students.

## Entrepreneurship (ENTR)

### Entrepreneurship Graduate Courses

**ENTR 8156 GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (3 credits)**

An advanced seminar focused on links among geography, gender and work, emphasizing leadership and entrepreneurship. The course considers theory and method in addition to empirical work. The nature of space, of gender, and of work, are examined. Topics include the gendering of work, the geography of entrepreneurship, gender and leadership. (Cross-listed with ENTR 4150, GEOG 4150, GEOG 8156, WGST 4150, WGST 8156)

**Prerequisite(s):** Junior, senior, or graduate standing, or permission of instructor.

**ENTR 8696 EMERGING TECHNOLOGY AND INNOVATION (3 credits)**

This course equips entrepreneurially-minded students with a more complete range and vision of the viability of various startup opportunities (with a specific focus on innovative technologies and innovative business models). Students will become familiarized with the new and emerging technologies and innovations that define modern industries and product categories, as well as the various shifts in the way cutting-edge business gets done, regardless of industry. (Cross-listed with BSAD 8696, ENTR 4690, MGMT 4690, MGMT 8696).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**ENTR 8716 COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION (3 credits)**

Comparative International Development and Innovation will analyze the rise and fall of civilizations from a historical and theoretical perspective in a comparative manner. The course will address issues concerning political, social, economic, and environmental change in national, and international contexts. Among its major emphases are state institutions, economic growth, entrepreneurship, and the transformation of social structure and culture. (Cross-listed with ENTR 4710, PSCI 4710, PSCI 8716).

**ENTR 8726 INNOVATION VENTURES (3 credits)**

This team-based course provides students with the opportunity to practice the basic tools of business discovery and validation. Concepts and techniques in innovation, entrepreneurship, and strategy will be used to aid students in the venture creation process. Important considerations impacting the viability of the venture post formation will also be explored. Practical real-world experimentation is the central component of the course and will help students to conceive, develop, and launch their own innovative ventures. (Cross-listed with BSAD 8726, ACMP 4720, HCC 8256, ENTR 4720, MGMT 4720, MGMT 8726, MKT 4720, MKT 8726).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

## Environmental Engineering (ENVE)

### Environmental Engineering Graduate Courses

**ENVE 898 SPECIAL PROBLEMS IN ENVIRONMENTAL ENGINEERING (1-6 credits)**

Special research-oriented problems in current topics in environmental engineering.

**Prerequisite(s):** Permission.

**ENVE 899 MASTER'S THESIS (1-10 credits)**

Master's thesis work

**ENVE 990 SEMINAR IN ENVIRONMENTAL ENGINEERING (1 credit)**

Presentation and discussion of current research topics and projects in environmental engineering and closely allied areas.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

**ENVE 998 SPECIAL TOPICS IN ENVIRONMENTAL ENGINEERING (1-6 credits)**

Independent library and/or experimental research, analysis, evaluation and presentation of current and advanced topics in environmental engineering and closely related areas.

**Prerequisite(s):** Permission.

## Environmental Studies (ENVN)

### Environmental Studies Graduate Courses

**ENVN 8316 OUR ENERGY FUTURE: SOCIETY, THE ENVIRONMENT AND SUSTAINABILITY (3 credits)**

In this course, students will analyze our energy options including the environmental, economic, and ethical connections with a particular emphasis on electrical energy. The course doesn't prescribe a particular energy future but rather emphasizes development of the knowledge and skills to more effectively contribute to the conversation. To understand our future, the course begins with the present energy landscape and its historical underpinnings, then focuses on developing a student's ability to critically assess energy options by examining the associated implications, consequences, intent, origins, and bias. Students' own work, life, and academic experience are used in the course to underscore the individual relevance of these energy choices. The course includes the necessary science, but the greater emphasis is on the associated critical and creative thinking so that ultimately students can make informed, creative, sustainable energy choices. (Cross-listed with ENVN 4310, CACT 8316)

**Prerequisite(s):** Graduate standing.

**ENVN 8336 INTRODUCTION TO GREEN INFRASTRUCTURE (3 credits)**

This course provides an overview of green infrastructure including issues managed with green infrastructure (storm water quality and quantity, urban habitat value, urban sustainability, etc.); basic design and management parameters for best management practices (BMPs); case study applications of BMPs; treatment train assessment and evaluation; and regulatory and cost considerations. (Cross-listed with ENVN 4330).

**Prerequisite(s):** Graduate standing.

**ENVN 8356 GLOBAL CLIMATE CHANGE (3 credits)**

The primary objective of this course is for students to form a scientific, evidence-based, stance on current and future changes to the Earth's climate. To this end, this course will be based on scientific inquiry into the current state of knowledge. Particular emphases are placed on evidence and causes of change, and the associated environmental and social impacts, including: water resources, extreme weather, human health, and others of interest to the class. (Cross-listed with GEOG 8356, GEOG 4350, ENVN 4350).

**Prerequisite(s):** Graduate standing

**ENVN 8826 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)**

An introduction to environmental law and regulations intended for students pursuing careers in environmental sciences or related fields. The course emphasizes the origins, implementation, and enforcement of U.S. state and federal laws and regulations. Major federal environmental laws, covering air and water quality, solid and hazardous waste, pollution prevention and remediation, and natural resources will be discussed. Usually offered Fall semesters. (Cross-listed with ENVN 4820, BIOL 4820, GEOG 8826, GEOG 4820, PA 8826).

**Prerequisite(s):** Graduate Standing or Permission from the Instructor.

# Executive Master of Science/ Information Technology (EMIT)

## Executive MS Information Technology Graduate Courses

### EMIT 8000 MANAGING & LEADING IN A DIGITAL WORLD (2 credits)

This course introduces Executive Master of Science in Information Technology (EMIT) students to the challenges and opportunities of managing and leading in a digital world within the context of a dynamic environment of technology workforce diversity, a global and emerging collaborative economy, and concern for ethics and social responsibility in the development of systems/technologies.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8050 IT LEADERSHIP (2 credits)

This course equips students with the knowledge, skills and tools to be an effective information technology (IT) leader. The primary focus of the course is on developing leadership capability and ability to contribute, both strategically and operationally, to the performance of an organization through IT.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8100 IT STRATEGY AND CHANGE MANAGEMENT (2 credits)

This course introduces students to a critical view of both strategic and tactical levels of IT management. The course also addresses the challenges of managing IT-enabled change and the complexities associated with managing people, processes, and technology.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program is required. Not open to non-degree graduate students.

### EMIT 8150 BIG DATA ANALYTICS AND VIZUALIZATION (2 credits)

This course introduces students to data analytics including big data analytics, data quality, and visualization. Topics will include concepts, exercises, tools and techniques surrounding data analytics, quality, visualization, IoT and cloud computing within the context of addressing business challenges and/or to create competitive advantage.

**Prerequisite(s):** This course is intended exclusively for IT professionals in the EMIT program. Not open to non-degree graduate students.

### EMIT 8200 MANAGING INFORMATION TECHNOLOGY INNOVATION (2 credits)

This course introduces students to the concepts, applications and tools for facilitating IT Innovation, Creativity, Entrepreneurship and Risk Taking.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8250 MANAGING INFORMATION ASSURANCE (2 credits)

This course introduces Executive Master of Science in Information Technology (EMIT) students to information assurance topics including areas such as managing cloud and mobile security, IT governance and policy, and information assurance planning and deployment.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8300 SYSTEMS DEVELOPMENT AND MAINTENANCE (2 credits)

This course introduces Executive Master of Science in Information Technology (EMIT) students to the development and maintenance of software-intensive systems.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8350 ENTERPRISE COMPUTING IN THE ERA OF BIG DATA (2 credits)

This course explores design, managerial and technical issues relevant to creating big data based solutions from a holistic viewpoint. Students will develop an understanding of both the technical and business aspects by exploring a balanced view of the theoretical foundation and practical implications of Enterprise Computing in the context of Big Data and other related (emerging) technologies.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8400 LEADING TEAMS AND MANAGING VIRTUAL WORK (2 credits)

This course introduces students in the Executive Master of Science in Information Technology (EMIT) program to fundamental concepts, principles, theories, and practices related to organizational teamwork. Students will learn and practice skills to run productive & effective collaborative problem solving efforts, using modern collaboration technology.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8450 EVALUATION OF ENTERPRISE I.T. (2 credits)

This course introduces students to concepts associated with evaluation of enterprise IT investments. Topics addressed will include understanding financial statements, IT investment value vs risk tradeoffs, understanding cost of adopting IT innovations and/or emerging technologies, designing reports, designing of IT-KPIs, performance measurement systems such as balanced scorecard and more.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8500 MANAGING AND LEVERAGING EMERGING TECHNOLOGIES (2 credits)

This course introduces Executive Master of Science in Information Technology (EMIT) students to industry models and processes to identify, track, pilot and eventually adopt business innovations and/or emerging technologies that could provide an advantage for a business. Students will also learn how IT can facilitate business process change. Concepts and exercises surrounding Lean IT will be covered to optimize the processes in the IT organization.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8700 EMERGING CHALLENGES FOR IT EXECUTIVES (2 credits)

This course introduces Executive Master of Science in Information Technology (EMIT) students to emerging challenges that will be faced by IT executives.

**Prerequisite(s):** Admission to the executive Master of Science in IT (EMIT) program. Not open to non-degree graduate students.

### EMIT 8990 INTEGRATED EMIT CAPSTONE PROJECT (2 credits)

This course serves as the integrated capstone project for the Executive Master's of Science in Information Technology (EMIT) program.

**Prerequisite(s):** Admission to the Executive Master's of Science in IT (EMIT) program and completion of all cohort modules prior to submission of integrated project. Concurrent enrollment with other EMIT modules will be required. Not open to non-degree graduate students.

# French (FREN)

## French Graduate Courses

### **FREN 8036 ADVANCED FRENCH CONVERSATION (3 credits)**

This course focuses on the development of oral skills in French through the use of complex and sophisticated conversational structures and nuanced lexicon. Students will be involved in expressing or presenting their ideas and opinions, interpersonal speaking activities, and a variety of activities including reading short literary and cultural texts and screening films. (Cross-listed with FREN 4030).

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

### **FREN 8056 SEMINAR IN THE CULTURE AND CIVILIZATION OF QUEBEC (3 credits)**

An introduction to the many facets of Quebec Culture & Civilization, through readings on Quebec's history and contemporary culture and also through films and other media related to Quebec. (Cross-listed with FREN 4050).

**Prerequisite(s):** FREN 2120 or departmental permission.

### **FREN 8076 FRANCOPHONE WEST AFRICA CULTURES (3 credits)**

This course is intended as an introduction and exploration to the history, literary traditions and cinema of Francophone West Africa from 1945 to today. It seeks to familiarize students with the practice of reading literary texts, discussing seminal films and articulating critically informed reaction in writing. The course will focus on a selection of canonical authors and seminal films from Burkina Faso, Guinea, Ivory Coast, Mali, Mauritania and Senegal. The texts and films will provide a point of entry to the study of history, society, and culture. Historical, socio-political and cultural issues covered in the course will include: Ancient rites and oral literature, French colonization and post-colonialism, women and gender issues, childhood, immigration, the "Afropean" literature and West African Francophone countries contemporary challenges (politics and economies) with presentations on Benin, Niger and Togo today. (Cross-listed with FREN 4070).

**Prerequisite(s):** One French course at the 3000 or 4000 level - must be a graduate student

### **FREN 8156 CONTEMPORARY FRENCH NOVEL (3 credits)**

Selected contemporary French novels are analyzed and discussed. The main objective of this course is the development of critical reading and analytical skills that will allow students to reflect more productively upon the major social and aesthetic themes manifest in the texts under consideration. In addition, students will examine the sociopolitical and cultural contexts of these literary works. (Cross-listed with FREN 4150).

**Prerequisite(s):** FREN 3060 or departmental permission. Not open to non-degree graduate students.

### **FREN 8176 CONTEMPORARY FRENCH THEATER (3 credits)**

Selected contemporary French plays are analyzed and discussed. The main objective of this course is the development of critical reading and analytical skills that will allow students to reflect more productively upon the major social and aesthetic themes manifest in the texts under consideration. (Cross-listed with FREN 4170).

**Prerequisite(s):** FREN 3060 or permission of instructor. Not open to non-degree graduate students.

### **FREN 8226 THE STRUCTURE OF FRENCH (3 credits)**

A survey of the linguistic structure of modern French, including phonology, morphology, and syntax. (Cross-listed with FREN 4220).

**Prerequisite(s):** FREN 3040 or departmental permission. Not open to non-degree graduate students.

### **FREN 8440 SEMINAR: FRENCH COMPOSITION (3 credits)**

This course provides opportunities for students to refine their composition skills in French through extensive writing workshops and peer editing. Computer applications to composition will be employed.

**Prerequisite(s):** Admission to the Graduate College.

### **FREN 8566 FRANCOPHONE WOMEN WRITERS: EXILES, MADWOMEN, AND WITCHES (3 credits)**

This course is an introduction in English to the rich variety of writing produced by women during the twentieth and twenty-first centuries from across the French-speaking world. We will focus on a selection of contemporary works by French and francophone women writers who lived and/or wrote in Canada, France, Guadeloupe, Haiti, North Africa, Senegal, and Quebec. The texts lend themselves to an exploration of many topical critical issues, including the construction of identity, the (re)presentation of history, the reliability of memory, and the effects of colonialism on different societies. In addition to our discussions of narrative motifs and technique, we will also look at the geopolitical and cultural contexts of these literary works, giving special attention to representations of gender, race, and class. (Cross-listed with ENGL 4560, FREN 4560, WGST 4560).

**Prerequisite(s):** Prereq: ENGL 1160 and one additional course in literature at the 2000 level or higher or permission.

### **FREN 8866 MODERN FRENCH WOMEN AUTHORS (3 credits)**

Selected contemporary French literary texts written by women are analyzed and discussed. This may include novels, short stories, poetry, and graphic novels. The primary objective of this course is the development of critical reading and analytical skills that will allow students to reflect more productively upon the major social and aesthetic themes manifest in the works under consideration. In addition, students will examine the sociopolitical and cultural contexts of these works. (Cross-listed with FREN 4860).

**Prerequisite(s):** FREN 3060 or permission. Not open to non-degree graduate students.

### **FREN 8900 FRENCH INDEPENDENT STUDY (1-3 credits)**

Specifically planned projects and readings in a well-defined field of French literature or linguistics carried out under the supervision of a member of the foreign languages faculty holding graduate faculty status.

### **FREN 8906 INDEPENDENT STUDY (1-3 credits)**

Specially planned assignments in a well-defined field of French Studies, carried out under the supervision of a member of the Foreign Languages and Literature faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated the capability of working independently. In general, these independent studies should not be taken as substitutes for scheduled classes of the same nature. May be repeated for credit once. (Cross-listed with FREN 4900).

**Prerequisite(s):** Permission of the instructor and no incompletes outstanding. Not open to non-degree graduate students.

### **FREN 8956 PRO-SEMINAR: LITERATURE AND/OR FILM (3 credits)**

This course is dedicated to the study of a narrow field of the literature and/or cinema of the Francophone world. (Cross-listed with FREN 4950).

**Prerequisite(s):** Graduate student status.

### **FREN 8966 PRO-SEMINAR: CULTURE AND SOCIETY (3 credits)**

This course will address narrow field of study of the civilization, history, film, contemporary culture, art, politics, and or cultural studies of the Francophone world. (Cross-listed with FREN 4960).

**Prerequisite(s):** FREN 3030, FREN 3040, and FREN 3060

### **FREN 8976 PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (3 credits)**

This course will address a narrow field of study of linguistics, translation/interpretation or the professional language of the Francophone world. (Cross-listed with FREN 4970).

**Prerequisite(s):** Graduate student status.



# Geography (GEOG)

## Geography Graduate Courses

### **GEOG 8000 HISTORY AND PHILOSOPHY OF GEOGRAPHY (3 credits)**

Introduction to history of geography. Emphasis on significant concepts, methodologies, and philosophies in geography from classical Greeks to the present.

**Prerequisite(s):** Permission

### **GEOG 8016 CONSERVATION OF NATURAL RESOURCES (3 credits)**

This course provides a diverse overview of the principles and contemporary issues related to ecology and management of wildlife, fisheries, forests, soil, rangeland, minerals, and water. It includes the philosophical, economic and social aspects of resource management. Current local, regional, and global issues are examined. (Cross-listed with GEOG 4010).

**Prerequisite(s):** Three hours of geography

### **GEOG 8026 SPATIAL ANALYSIS IN GEOGRAPHY (3 credits)**

An introduction to spatial analysis with a focus on spatial statistics. Emphasis will be placed on the nature of geographic data, spatial data handling, modeling logic, sampling theory, and design. Both descriptive and spatial statistics methods are covered. Students will receive hands-on experience working with statistical data sets, software, and scientific visualization of research results. (Cross-listed with GEOG 4020).

**Prerequisite(s):** STAT 1530 or STAT 3000 and GEOG 4050 or permission

### **GEOG 8036 COMPUTER MAPPING AND VISUALIZATION (3 credits)**

Computer techniques in the mapping and visualization of spatial data. Various forms of spatial data manipulation and computer graphic output techniques are examined. Particular attention is given to the creation of maps for the internet and the incorporation of interaction and animation in their display. (Cross-listed with GEOG 4030).

**Prerequisite(s):** GEOG 1090 or permission of instructor. Background in programming, particularly JavaScript, highly recommended.

### **GEOG 8040 SEMINAR IN EDUCATION GEOGRAPHY (3 credits)**

This seminar surveys the goals, methods, and content associated with teaching geography in elementary, secondary, and in higher education. It is designed to aid current and future teachers in teaching geography.

**Prerequisite(s):** Permission

### **GEOG 8046 GEOARCHAEOLOGY (3 credits)**

An introduction to geoarchaeology: the application of methods and techniques of geography, geology and other earth sciences to solve archaeological problems and reconstruct past environments. (Cross-listed with GEOL 4040, GEOG 4040).

### **GEOG 8056 GEOGRAPHIC INFORMATION SYSTEMS I (4 credits)**

An introduction to the concepts and principles of geographic information systems (GIS). Emphasis will be placed on geographic data inputs, manipulation, analysis, and output functions. Exercises introduce students to GIS software and applications. Usually offered Fall, Spring, Summer. (Cross-listed with GEOG 4050).

**Prerequisite(s):** 3 hours in Geography or by permission

### **GEOG 8106 BIOGEOGRAPHY (3 credits)**

This course is intended as an introduction to biogeography, the study of the distribution and evolution of organisms across space and through time. Usually offered every year. (Cross-listed with BIOL 4100, GEOL 4100, BIOL 8106, GEOL 8106, GEOG 4100).

**Prerequisite(s):** BIOL 1450 and BIOL 1750 or GEOL 3100 or BIOL 3100, junior-senior

### **GEOG 8126 URBAN GEOGRAPHY (3 credits)**

This course is designed to serve as an introduction to the complex and dynamic urban system, including the physical, economic, political, cultural, social, and environmental forces that shape the form and function of cities, as well as how individuals and groups experience urban life. We make ample use of geographic information systems (GIS) to analyze cities and better understand crucial urban concepts such as urban growth and development, patterns of urban form, segregation and neighborhood change, economic specialization and agglomeration, urban sprawl, and environmental justice. (Offered Fall) (Cross-listed with GEOG 4120).

### **GEOG 8130 SEMINAR IN ECONOMIC GEOGRAPHY (3 credits)**

This seminar course investigates the development of current world economic systems through the elements of primary, secondary, tertiary, quaternary and quinary production on a micro and macro scale. Exchange and transactional systems, consumption linkages, resource management, economic health on global and local scales, and location decision-making are major topics.

**Prerequisite(s):** Graduate in geography and permission of instructor

### **GEOG 8136 POLITICAL GEOGRAPHY (3 credits)**

An introduction to the basic concepts and approaches in contemporary political geography at the global, national and local scales. Core topics to be examined include geopolitics, imperialism, war and peace, global ecopolitics, states, nationalism and electoral geography. (Offered Fall) (Cross-listed with GEOG 4130).

**Prerequisite(s):** Graduate status

### **GEOG 8156 GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (3 credits)**

An advanced seminar focused on links among geography, gender and work, emphasizing leadership and entrepreneurship. The course considers theory and method in addition to empirical work. The nature of space, of gender, and of work, are examined. Topics include the gendering of work, the geography of entrepreneurship, gender and leadership. (Cross-listed with WGST 4150, GEOG 4150, ENTR 4150, ENTR 8156, WGST 8156).

**Prerequisite(s):** Junior, senior, or graduate standing, or permission of instructor.

### **GEOG 8166 URBAN SUSTAINABILITY (3 credits)**

Using sustainability as a conceptual framework, students in this course will investigate a variety of social, economic, and environmental challenges facing cities of the 21st century. Topics and issues explored include urban growth and expansion, livability, equity & gentrification, energy use & production, urban farming, poverty, automobility & transportation, water security, urban pollution, and the role of cities in climate change. (Cross-listed with GEOG 4160)

**Prerequisite(s):** Graduate standing.

### **GEOG 8176 ADVANCED CULTURAL GEOGRAPHY (3 credits)**

This course examines current theoretical debate and research practice in a select topic in Cultural Geography. Emphasis will be on readings and discussion with students engaging in original research. Specific thematic focus will vary from year to year. This course may be taken multiple times as long as topics differ. (Cross-listed with GEOG 4170).

**Prerequisite(s):** Graduate standing and permission of the instructor.

### **GEOG 8206 WATER QUALITY (3 credits)**

This class will apply chemical principles to the aquatic environment to understand how and why water quality varies. Integrated lectures and labs will focus on completing a class-defined, locally-explorable water quality project. Students will also gain basic water sampling and analysis skills. (Cross-listed with GEOG 4200, GEOL 4200).

**Prerequisite(s):** One of the following: GEOL 2750, GEOL 4540, CHEM 1140, CHEM 1180, or instructor permission.

### **GEOG 8210 SEMINAR IN CULTURAL GEOGRAPHY (3 credits)**

This course explores the different theoretical, methodological and empirical approaches in cultural geography, while also addressing its development, its evolution, its competing schools of thought, and new frontiers.

**Prerequisite(s):** Permission



**GEOG 8216 GEOGRAPHIES OF SEXUALITIES (3 credits)**

How are geography and sexuality related? What have cities got to do with sexual identities? Can rural spaces foster diverse sexual communities? These and related questions are the focus of this upper-level undergraduate and graduate-level course. Students read scholarly work by and about LGBTQ+ (Lesbian, Gay, Bisexual, Transgender, Queer, and +), and cisgender people, and their lived experiences creating and inhabiting different geographies. Students gain an appreciation for the social construction of diverse sexualized spaces and considers questions about equity and policy through case studies in a variety of countries. Each student also researches a course-relevant topic they choose. (Cross-listed with GEOG 4210, WGST 4210, WGST 8216).

**GEOG 8236 GREAT PLAINS & NEBRASKA (3 credits)**

This course is a comprehensive examination of the Great Plains region from a geographical perspective. It considers both the physical and human geography of the Plains, with particular attention to our home, Nebraska. Topics to be covered include: the Plains' unique ecosystems, its early human inhabitants, its later settlers, its evolving land-use patterns, and current issues. (Cross-listed with GEOG 4230).

**GEOG 8266 PROCESS GEOMORPHOLOGY (4 credits)**

A lecture and laboratory course focused on understanding Earth surface processes and the evolution of landforms across spatial and temporal scales. The course emphasizes applying unifying concepts in geomorphology, quantitative methodology and modern process-oriented geomorphology to interpret landscape evolution. (Cross-listed with GEOG 4260, GEOL 4260).

**Prerequisite(s):** One of the following: GEOL 1010, GEOL 1170, GEOG 1030, GEOG 1050 or instructor permission.

**GEOG 8310 GEOGRAPHY OF AGRICULTURE (3 credits)**

A systematic study of the characteristics and patterns of world agriculture. Usually offered on demand.

**Prerequisite(s):** Permission

**GEOG 8326 CLIMATOLOGY (3 credits)**

A study of climatic processes and their effect on shaping the physical landscape. Emphasis on physical and applied aspects of the field. (Cross-listed with GEOG 4320).

**Prerequisite(s):** GEOG 1030, GEOG 1050, GEOG 3510, or permission of instructor.

**GEOG 8336 SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (4 credits)**

This course is designed to familiarize students with basic soil chemical, physical and biological properties, soil morphological characteristics, soil classification and soil forming processes. The course focuses on relationships between soils and environmental factors and how such factors alter soil forming processes. The lab will focus on developing basic field skills, including soil morphological descriptions and soil mapping, as well as common laboratory methods used to analyze soils. (Cross-listed with GEOG 4330, GEOL 4330).

**Prerequisite(s):** One of the following: GEOG 1030, GEOG 1050, GEOL 1010, GEOL 1170 or instructor permission.

**GEOG 8346 WATER RESOURCES (3 credits)**

This course explores the applied principles of hydrology, water systems modeling, river basin development, and water management issues and practices in the United States and other parts of the world. Two local Saturday field trips will be required. (Cross-listed with GEOG 4340).

**Prerequisite(s):** Six hours of Physical Geography or equivalent and graduate standing.

**GEOG 8356 GLOBAL CLIMATE CHANGE (3 credits)**

The primary objective of this course is for students to form a scientific, evidence-based, stance on current and future changes to the Earth's climate. To this end, this course will be based on scientific inquiry into the current state of knowledge. Particular emphases are placed on evidence and causes of change, and the associated environmental and social impacts, including: water resources, extreme weather, human health, and others of interest to the class. (Cross-listed with GEOG 4350, ENVN 8356, ENVN 4350).

**Prerequisite(s):** Graduate standing

**GEOG 8406 EMERGING TOPICS IN GEOGRAPHY (3 credits)**

Emerging Topics in Geography focuses on the latest research areas in the field of geography. The specific topic of each course set will be based on the research trends in geography. This course will be offered on demand. (Cross-listed with GEOG 4400).

**Prerequisite(s):** Permission of the instructor

**GEOG 8456 GEOHYDROLOGY (3 credits)**

A course dealing with geology, chemistry and hydraulics of groundwater. Designed mainly for Geology majors but can be helpful to other disciplines where ground water is involved. (Cross-listed with GEOG 4450, GEOL 4450).

**GEOG 8500 SPECIAL TOPICS IN GEOGRAPHY (3 credits)**

This course will provide for an in-depth study of a geographical or geological subject (as specified in the course subtitle). Subjects will be offered as sections of GEOG 8500, but will be separate from one another. Students may repeat GEOG 8500 as often as they like as long as no specific subject is duplicated. Course to be offered with approval of Graduate Program Committee and Dean for Graduate Studies.

**Prerequisite(s):** Permission of instructor

**GEOG 8535 CARTOGRAPHY AND DATA VISUALIZATION (4 credits)**

An introduction to the concepts and techniques of map construction and visual data communication. Topics include map scale, map projections, thematic cartography, history of cartography, computer mapping, and global positioning systems. Particular attention is given to designing both paper and Internet distributed maps. This course is offered in both the Fall and Spring semesters. (Cross-listed with GEOG 3530).

**Prerequisite(s):** GEOG 1000 or GEOG 1020 and GEOG 1030 or GEOG 1050

**GEOG 8536 HISTORICAL GEOGRAPHY OF THE UNITED STATES (3 credits)**

This course examines the geography, physical and human, real, perceived, or theoretical, of the United States' historical development. It considers the ways history has and has not been affected by geography. It will also cover the field of historical geography, its theories and practices. (Cross-listed with GEOG 4530).

**GEOG 8556 GEOGRAPHY OF ECONOMIC GLOBALIZATION (3 credits)**

A study of the geography of economic globalization and the geography of the world economy. The major topics include the historical development of the world economy and globalization from the geographical perspective, trends in geography of global production, trade and investment, the most important factors and actors in the globalization processes and its geographic effects, geography of transnational corporations, case studies of economic geography of selected industries and service activities, effects of globalization on the developed and developing countries. This course also supports the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with GEOG 4550, CACT 8116).

**Prerequisite(s):** Graduate status.

**GEOG 8600 INDEPENDENT RESEARCH (1-3 credits)**

This is an independent research course, where students undertake and complete a focused independent project under faculty supervision, exploring an aspect of geography in greater depth.

**Prerequisite(s):** Completed independent research contract between faculty and student and permission of adviser or the Graduate Studies Coordinator.

**GEOG 8616 ENVIRONMENTAL MONITORING AND ASSESSMENT (3 credits)**

An interdisciplinary approach to techniques for the design and implementation of environmental inventory and monitoring schemes used to evaluate natural resources. Students work as teams to synthesize information from their backgrounds in geography, geology and ecology to evaluate the impacts of human actions on environmental quality following the framework for environmental assessments provided by the National Environmental Policy Act. Course is organized to accommodate variable needs of students with different backgrounds and career choices. Usually offered every year. (Cross-listed with BIOL 4610, ENVN 4610, GEOG 4610, GEOL 4610, GEOL 8616)

**Prerequisite(s):** Permission of instructor.

**GEOG 8626 GEOGRAPHICAL FIELD STUDIES (3 credits)**

Field experience course based on variable topics and themes. Students must attend the multiple day field trip that will require overnight stays. (Cross-listed with GEOG 4620).

**Prerequisite(s):** Instructor Permission. Not open to non-degree graduate students.

**GEOG 8636 ENVIRONMENTAL REMOTE SENSING (4 credits)**

An introduction to remote sensing science and technology. Emphasis will be placed on multispectral data, matter/energy interactions, sensor system characteristics, photogrammetry, image interpretation, digital image processing, and environmental applications. Formal laboratory instruction will provide students with problem-solving skills and hands-on experience with remote sensing and GIS software. (Cross-listed with GEOG 4630).

**Prerequisite(s):** GEOG 1060 or GEOG 1070 or GEOL 1170. Introductory statistics highly recommended.

**GEOG 8640 REMOTE SENSING ADVANCED CONCEPTS AND APPLICATIONS (3 credits)**

Designed for the graduate student desiring to do advanced work in remote sensing. The emphasis of the course is on non-photographic sensors and especially digital processing of multispectral satellite data. The applications are multidisciplinary in nature. Usually offered on demand.

**Prerequisite(s):** GEOG 4630 / GEOG 8636

**GEOG 8646 CRITICAL ZONE SCIENCE (4 credits)**

This course examines the Critical Zone (CZ), Earth's permeable layer that extends from the top of vegetation to the bottom of groundwater. The CZ is a constantly evolving layer where rock, soil, water, air, and living organisms interact to regulate the landscape and natural habitats; it also determines the availability of life-sustaining resources, including our food production and water quality. CZ science is an interdisciplinary and international endeavor focused on cross-disciplinary science. In this course, we will focus on using data available from the existing National Science Foundation (NSF)-funded CZ Observatories (CZOs) along with readings, discussions and activities to explore interactions within the CZ. (Cross-listed with GEOG 4640, GEOL 4640)

**Prerequisite(s):** One of the following: GEOL 1170, GEOL 1010, GEOG 1030 or GEOG 1050; one chemistry or physics course recommended; or instructor permission.

**GEOG 8650 LAND USE (3 credits)**

Introduction to the theories and practices of land use planning. Land use planning considers the natural environment and the human activities utilizing it, studying the decisions made in human land use, in order to understand and critique current land use practices. Local, state, nation, and international case studies of land use will be considered.

**Prerequisite(s):** GEOG 4120/ GEOG 8126 Urban Geography

**GEOG 8666 GEOGRAPHIC INFORMATION SYSTEMS II (4 credits)**

An introduction to advanced geographic information systems (GIS) topics. Emphasis will be placed on algorithms and analysis for information extraction. Topics include spatial interpolation, remote sensing GIS integration, software development, spatial analysis, GIS modeling, and future advances in GIS. Formal laboratory instruction will provide students with GIS experience to solve application problems. Usually offered in Fall. (Cross-listed with GEOG 4660).

**Prerequisite(s):** GEOG 4050/ GEOG 8056

**GEOG 8670 CARTOGRAPHIC METHODS (3 credits)**

An applied graduate seminar in cartography and geospatial science. The course examines advanced methods for the representation of spatial data. Emphasis is placed on the design of interactive Internet-based maps. Projects will be directed toward the creation of map-based web pages.

**Prerequisite(s):** A junior/senior course in cartography, GIS, computer mapping, or visualization.

**GEOG 8680 SEMINAR IN GEOSPATIAL SCIENCE (3 credits)**

Seminar in Geospatial Science examines the origins, development and prospects of spatial information technology to understand people, places, and processes of the earth. The overall approach is to examine the three main components of geospatial science: 1) Geographic Information Systems (GIS), the software, hardware, outputs, personnel, and practices that together facilitate the analysis and mapping of geographic entities and phenomena; 2) Remote Sensing, the use and processing of aerial photographs and satellite imagery; and 3) Cartography, the general processing and display of geographic information for both analysis and communication.

**Prerequisite(s):** Graduate standing. Prior coursework in geographic information systems, remote sensing or cartography.

**GEOG 8700 RESEARCH METHODS (3 credits)**

The course provides students with an overview of research approaches and methods used by geographers. Students are expected to put these methods into practice by drafting a full thesis proposal by semester's end.

**GEOG 8800 INTERNSHIP IN ENVIRONMENTAL/REGIONAL PLANNING (1-6 credits)**

(repeatable up to six hours) Internship with local planning agencies enabling students to gain knowledge and experience in comprehensive regional or environmental planning. Usually offered Fall, Spring, and Summer.

**Prerequisite(s):** Permission and 12 graduate hours in geography.

**GEOG 8826 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)**

An introduction to environmental law and regulations intended for students pursuing careers in environmental sciences or related fields. The course emphasizes the origins, implementation, and enforcement of U.S. state and federal laws and regulations. Major federal environmental laws, covering air and water quality, solid and hazardous waste, pollution prevention and remediation, and natural resources will be discussed. Usually offered Fall semesters. (Cross-listed with ENVN 8826, ENVN 4820, BIOL 4820, GEOG 4820, PA 8826).

**Prerequisite(s):** Graduate Standing or Permission from the Instructor.

**GEOG 8830 SEMINAR IN URBAN STUDIES (3 credits)**

This course provides an interdisciplinary overview of the forces influencing and influenced by urbanization and urbanism. (Cross-listed with UBNS 8000)

**Prerequisite(s):** Not open to non-degree graduate students.

**GEOG 8840 DIRECTED RESEARCH IN URBAN STUDIES (3 credits)**

The course is intended for advanced graduate students in urban studies or geography. It is especially suited for those in-career students who have had their internships waived and who might profit more by in-depth research on a problem of urban studies rather than additional classroom courses. (Cross-listed with UBNS 8940).

**Prerequisite(s):** Completed 9 graduate hours in Urban Studies. Permission from the School. For Geography students, GEOG 8126 (Urban Geography) or permission from the School.

**GEOG 8990 THESIS (1-6 credits)**

Independent research project conducted under the supervision of an adviser and thesis committee.

**Prerequisite(s):** Graduate student in geography who has successfully presented and defended their thesis proposal.

## Geology (GEOL)

### Geology Graduate Courses

**GEOL 8106 BIOGEOGRAPHY (3 credits)**

This course is intended as an introduction to biogeography, the study of the distribution and evolution of organisms across space and through time. Usually offered every year. (Cross-listed with GEOL 4100, BIOL 4100, BIOL 8106, GEOG 4100, GEOG 8106).

**Prerequisite(s):** BIOL 1450 and BIOL 1750 or GEOL 3100 or BIOL 3100, junior-senior.

**GEOL 8616 ENVIRONMENTAL MONITORING AND ASSESSMENT (3 credits)**

An interdisciplinary approach to techniques for the design and implementation of environmental inventory and monitoring schemes used to evaluate natural resources. Students work as teams to synthesize information from their backgrounds in geography, geology and ecology to evaluate the impacts of human actions on environmental quality following the framework for environmental assessments provided by the National Environmental Policy Act. Course is organized to accommodate variable needs of students with different backgrounds and career choices. Usually offered every year. (Cross-listed with BIOL 4610, ENVN 4610, GEOG 4610, GEOG 8616, GEOL 4610).

**Prerequisite(s):** Permission of instructor.

## German (GERM)

### German Graduate Courses

**GERM 8046 ADVANCED GERMAN COMPOSITION AND STYLISTICS (3 credits)**

Advanced grammatical principles, composition and stylistics.

**GERM 8166 BLACK GERMANY: PEOPLE AND CULTURE (3 credits)**

The course addresses fiction, film, photography, music and journalism to dive into Black people's contribution to German culture. From the formation of a Black community in imperial Germany, to the African American GI's role in postwar democratization process, the artistic output of so-called "occupation babies" born in the wake of WWII, to contemporary artists who continue to expand and refine German culture. The African Diaspora in Germany is a rich field to expand our notion of global connectedness and cultural identity, while taking a deep dive into contemporary German culture and social developments. (Cross-listed with GERM 4160).

**GERM 8226 THE STRUCTURE OF GERMAN (3 credits)**

A survey of the linguistic structure of modern German, including phonology, morphology, and syntax. (Cross-listed with GERM 4220).

**Prerequisite(s):** GERM 3040 and GERM 4610, or permission.

**GERM 8440 SEMINAR:GERMAN COMPOSITION (3 credits)**

This course will provide opportunities for students to refine their composition skills in German through extensive writing practice, writing workshops, and peer editing. Computer applications to composition will be employed.

**Prerequisite(s):** Admission to Graduate College.

**GERM 8906 INDEPENDENT STUDY (1-3 credits)**

Specially planned readings in a well-defined field of literature, carried out under the supervision of a member of the foreign language faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated for credit once.

**Prerequisite(s):** Permission of the instructor, junior or senior standing, and no incompletes outstanding.

**GERM 8956 PRO-SEMINAR: LITERATURE AND/OR FILM (3 credits)**

This course is dedicated to the study of a narrow field of the literature and/or cinema of the German-speaking world. (Cross-listed with GERM 4950).

**Prerequisite(s):** Graduate student status.

**GERM 8966 PRO-SEMINAR: SOCIETY AND CULTURE (3 credits)**

This course will address a narrow field of study of the civilization, history, film, contemporary culture, art, politics, and/or cultural studies of the German-speaking world. (Cross-listed with GERM 4960).

**Prerequisite(s):** GERM 3030, GERM 3040, and GERM 3060

**GERM 8976 PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (3 credits)**

This course will address a narrow field of study of linguistics, translation/interpretation or the professional language of the German-speaking world. (Cross-listed with GERM 4970).

**Prerequisite(s):** Graduate student status.

## Gerontology (GERO)

### Gerontology Graduate Courses

**GERO 8020 INTRODUCTION TO RESEARCH METHODS (3 credits)**

An introduction to research methods and statistical procedures in the social and behavioral sciences.

**GERO 8056 ADVANCED BIOLOGY OF AGING (3 credits)**

This course covers biological aging topics at an advanced level, and is designed for undergraduate and graduate students who have some prior knowledge about biology or aging. The course will be interdisciplinary in nature and focus on topics relevant to gerontology, biology, psychology, and exercise science. Students will learn how to think critically about primary research in the biology of aging. Furthermore, they will apply their knowledge of the biology of aging field by creating a handbook of healthy aging for older adults. (Cross-listed with GERO 4050, NEUR 4050).

**Prerequisite(s):** Junior or senior standing for undergraduate students or graduate level standing

**GERO 8106 EDUCATIONAL GERONTOLOGY (3 credits)**

An introduction to the field of education for and about the aging. The institutions and processes of education will be analyzed to determine their relationships and value to persons who are now old and those who are aging. (Cross-listed with GERO 4100).

**Prerequisite(s):** Students must have a junior, senior or graduate student status.

**GERO 8206 VOLUNTEER MANAGEMENT (3 credits)**

The purpose of this course is to equip managers of volunteers in aging services to develop, maintain, assess impact and evaluate a sustainable volunteer program that will provide reliable and necessary services to older adults and further to be embraced as a valuable asset by professionals working in the field of aging. (Cross-listed with GERO 4200).

**Prerequisite(s):** Graduate Student

**GERO 8356 ISSUES IN AGING (3 credits)**

This course is intended for students in gerontology and in other fields who are interested in a humanistic approach to understanding significant issues which affect the lives of older people. (Cross-listed with GERO 4350).

**GERO 8426 RECREATION FOR THE AGING (3 credits)**

Role of leisure services as related to understanding and working with elders. Emphasis on recreation programming as a mode of intervention. Analysis and study of the phases of aging, with reference to psychomotor, affective, and cognitive changes; introduction to the theories of aging and how they relate to the lifestyle of this population; recreational therapy intervention, activity adaptation and program design; leisure education and issues and trends. (Cross-listed with GERO 4420, RLS 4420, RLS 8426).

**GERO 8446 SOCIOLOGY OF AGING (3 credits)**

This course will introduce students to important theories and concepts in the sociological study of aging and give deeper understanding of the experiences that people encounter as they grow older, including retirement, disease and disability, and long-term care. In addition to exploring the challenges faced by older adults, this course will focus on factors that contribute to successful aging. (Cross-listed with GERO 4440, SOC 8306, SOC 4300).

**Prerequisite(s):** Graduate Students

**GERO 8466 PSYCHOLOGY OF ADULT DEVELOPMENT AND AGING (3 credits)**

The focus of this course is on the major social and psychological changes that occur as a function of aging. Both normal and abnormal patterns of developmental change are examined, along with their implications for behavior. (Cross-listed with GERO 4460, PSYC 4460)

**GERO 8476 MENTAL HEALTH AND AGING (3 credits)**

The goal of this courses is to survey the mental health needs of older adults. Consideration is given to identifying both positive mental health and pathological conditions. Treatment interventions effective with older adults and their families are also discussed. (Cross-listed with GERO 4470, PSYC 4470, PSYC 8476).

**GERO 8486 GLOBAL AGEING (3 credits)**

The study of ageing around the world by a comparative method in a cross-cultural and cross-national framework. An explanation of some practical experiences and developments in Europe, Asia and Africa will be examined. (Cross-listed with GERO 4480).

**GERO 8500 POLITICS AND AGING (3 credits)**

The purpose of this course is to provide an understanding of the role of the political process in the emergence of public policy towards older adults in the United States, particularly during the past century.

**GERO 8506 LEGAL ASPECTS OF AGING (3 credits)**

This course centers on the legal concerns likely to arise as people age. We will discuss the American legal system with an emphasis on underlying legal concepts and issues of special importance to older persons. Some of the topics include guardianship, finances in retirement, abuse and neglect, Social Security, and Medicare and Medicaid. Consideration of the legal concerns which are likely to arise as people age. Includes introduction to American legal system, and emphasis on underlying legal concepts and issues of special importance to older persons. (Cross-listed with GERO 4500).

**GERO 8516 LONG-TERM CARE ADMINISTRATION (3 credits)**

An investigation of the broad range of policy issues, theoretical concerns and practical management strategies influencing the design, organization and delivery of long-term care services. (Cross-listed with GERO 4510, PA 4510, PA 8516).

**GERO 8526 SENIOR HOUSING (3 credits)**

The senior housing course is designed to provide students with an in-depth understanding of the various housing options available to older adults including aging in place to hospice. At the end of the course students will have a working knowledge of the needs of older adults and how this is used in making decisions about housing. (Cross-listed with GERO 4520.)

**Prerequisite(s):** Graduate student

**GERO 8556 HEALTH ASPECTS OF AGING (3 credits)**

This course emphasizes health promotion for older adults. Special health needs of older Americans are compared and contrasted with health needs for other age groups. Prevention or delaying of chronic diseases and disorders are emphasized. (Cross-listed with GERO 4550, PHHB 4550, PHHB 8556, WGST 4550).

**GERO 8566 NUTRITION AND AGING (3 credits)**

The goal of this course is to provide an understanding of the relationship between nutrition and successful or usual aging. This course will review the basics of good nutrition and relate them to the usual food intake of older adults. It will identify the impact of poor nutrition. This course will also look at the role nutrition plays in various disease processes that are associated with aging. It will provide information about support services that are available to assure good nutrition into old age for those living independently. (Cross-listed with GERO 4560).

**GERO 8576 REHABILITATIVE DESIGN (3 credits)**

The purpose of this interdisciplinary course is to provide students with a greater appreciation and understanding of impairment as a platform for professional activities. This course will also provide an understanding of how Rehab Engineering, Universal and Inclusive Design and the implementation of Assistive Technology allow for greater levels of independence and quality of life for all members of our community, with an emphasis on the applications in the aging process. (Cross-listed with GERO 4570).

**GERO 8606 MANAGEMENT AND ADMINISTRATION OF AGING PROGRAMS (3 credits)**

This course is designed to give students a broad overview of theories, models, issues and approaches related to the administration of services and programs for older adults. (Cross-listed with GERO 4600).

**GERO 8676 PROGRAMS AND SERVICES FOR OLDER ADULTS (3 credits)**

This course is provided to give the student an historical overview of programs for older adults; examine the national policy process as it relates to the older American; and review the principles and practices relative to the existing national programs for the aged. (Cross-listed with GERO 4670, PA 8676).

**Prerequisite(s):** Not open to non-degree graduate students.

**GERO 8696 WORKING WITH MINORITY ELDERLY (3 credits)**

This course is designed to provide the student with knowledge of the differing status, attitudes, and experiences of older adults who identify as members of minority groups in the U.S. This course examines various social policies, service systems, and practice models in terms of their relevance and effectiveness in meeting the needs of an increasing and diverse aging population. (Cross-listed with GERO 4690, SOWK 4040, SOWK 8046).

**GERO 8726 BABY BOOMERS AND THE 21ST CENTURY (3 credits)**

Marketing decisions and strategies apply to all businesses and are influenced by the target market. The economic realities and the character of America will change due to shifting demographics of baby boomers. Businesses that understand the power of the baby boomers will succeed; failure to understand that power may lead to economic consequences. Students from many disciplines will benefit from this cross-referenced course blending the realities of gerontology with the predictions of baby boomer behavior and the resulting impact to all businesses. (Cross-listed with GERO 4720).

**Prerequisite(s):** Junior, Senior and Graduate Level Standing.

**GERO 8730 DYING, DEATH & GRIEVING (3 credits)**

An examination of theory and research relevant to interaction with the older, terminally ill person, focusing on communication with widows and other survivors as well as the dying patient. (Cross-listed with PHHB 8730).

**Prerequisite(s):** Graduate Students



**GERO 8756 MID-LIFE, CAREER CHANGE, PRERETIREMENT PLANNING (3 credits)**

This course is designed to involve candidates in the exploration of the developmental tasks of mid-life, myths and realities related to career change as well as the implication of preretirement planning. Factual information, as well as model examination and evaluation are presented to aid the candidate in becoming better equipped to understand some of the forces which affect the well-being of middle aged persons as they prepare for the later years. (Cross-listed with COUN 8756, GERO 4750).

**Prerequisite(s):** Not open to non-degree graduate students.

**GERO 8800 GRADUATE SEMINAR IN THE AGING BRAIN (3 credits)**

The Graduate Seminar in the Aging Brain is a graduate level gerontology course focused on understanding the changes to the brain due to normal aging and aging-related diseases. This is an elective course for the Gerontology graduate program at UNO. The content matter of this course also makes it a relevant fit for graduate students from disciplines such as biology, psychology, geriatric medicine, nursing, social work, and exercise science. By the end of the course, students should have a thorough understanding of the changes to the brain in healthy aging and aging-related disease that affect cognitive and emotional functioning. (Cross-listed with PSYC 8800).

**Prerequisite(s):** Graduate level standing

**GERO 8810 GRADUATE SEMINAR IN THE BIOLOGY OF AGING (3 credits)**

This course provides an in-depth investigation of key topics in the biology of aging for graduate students. The course will be interdisciplinary in nature and focus on topics relevant to gerontology, biology, psychology, neuroscience, and exercise science. Students will learn about theory, primary research, and hypotheses within the biology of aging field. Students will be asked to think critically and apply their knowledge through assignments and class discussions.

**Prerequisite(s):** graduate level standing

**GERO 8856 HOSPICE & OTHER SERVICES FOR THE DYING PATIENT/FAMILY (3 credits)**

This course examines the hospice concept and other related services available in the community. The student will learn that hospice is an alternative to the traditional medical model. (Cross-listed with GERO 4850, SOWK 4850, SOWK 8856).

**GERO 8920 SPECIAL STUDIES IN GERONTOLOGY (1-3 credits)**

Special studies designed around the interests and needs of the individual student in such areas as the psychology, sociology, economics, biology, or politics of aging, as well as operation of various service systems. This independent study may include a literature review or a field project in which experience is gained in the community, identifying and analyzing needs and services related to older people.

**Prerequisite(s):** Instructor permission

**GERO 8940 GRADUATE PRACTICUM (3 credits)**

This course provides the opportunity to students to share field experiences; to obtain guidance concerning various relationships with agency, staff and clients; and to develop a broadly based perspective of the field of aging.

**Prerequisite(s):** Nine hours in gerontology and permission. Students must be enrolled in the certificate or degree program (MA, PhD) as well as have a minimum GPA of 3.0. Not open to non-degree students.

**GERO 8956 PALLIATIVE CARE: MENTORING A HEALTHCARE APPROACH OF PATIENT-CENTERED CARE WITH FOCUS ON WELL-BEING (3 credits)**

This course provides a foundation for the recognition of the need to implement palliative medical care. Using current texts and literature, video and podcast lectures by colleagues, and review of cases and topics, a student will understand the definitions, purposes, and benefits of palliative medical care. The student will learn the avenues and ways to implement palliative care to provide care that promotes well-being. (Cross-listed with GERO 4950).

**GERO 8980 LITERATURE AND AGING (3 credits)**

In this course, we will examine the experience of aging and of being an older person through the world's great literature. We will study this universal experience by reading novels, short stories, poems, plays, and personal narratives from across different eras and cultures. In this way we hope to come to a better understanding of: 1) the older adults we serve as patients and clients; 2) our own aging process and those of our close family members and friends; 3) literary works and their relevance in our everyday lives.

**Prerequisite(s):** Graduate students only.

**GERO 8986 COUNSELING SKILLS IN GERONTOLOGY (3 credits)**

This course is intended to help develop basic counseling skills for application in gerontology. (Cross-listed with COUN 8986, GERO 4980).

**Prerequisite(s):** Not open to non-degree graduate students.

**GERO 8990 THESIS (1-6 credits)**

Independent research project required of all students working toward the Master of Arts degree. The thesis is written under the supervision of the thesis adviser and the thesis committee.

**Prerequisite(s):** Permission from adviser.

**GERO 9020 GRADUATE SEMINAR IN STATISTICAL APPLICATIONS (3 credits)**

Provides an introduction to statistical methods and data management used in the social, behavioral and health sciences.

**GERO 9110 THEORIES OF AGING (3 credits)**

An overview of social gerontology with an emphasis on the interplay between social, psychological and physical elements in later life. Restricted to graduate students only; required of gerontology students. (Cross-listed with SOC 9110).

**Prerequisite(s):** Graduate.

**GERO 9460 SEMINAR IN AGING AND HUMAN BEHAVIOR (3 credits)**

This course will examine in detail age-related changes in psychological processes and explore the implications of these changes for behavior. The course is intended primarily for graduate students in psychology and gerontology. (Cross-listed with PSYC 9460).

**Prerequisite(s):** Graduate standing in gerontology or psychology or permission of the instructor.

**GERO 9990 DISSERTATION (1-6 credits)**

This course provides doctoral students pursuing the PhD in Human Sciences with a specialization in gerontology to complete a dissertation research plan. The course learning activities will focus on the completion of an approved dissertation.

**Prerequisite(s):** Admittance to the PhD in Human Sciences with a specialization in gerontology. Not open to non-degree graduate students.

## Health & Kinesiology (HEKI)

### Health & Kinesiology Graduate Courses

**HEKI 8000 SPECIAL STUDIES (1-3 credits)**

A series of intensive courses - scheduled as regular seminars or workshops according to purpose.

**Prerequisite(s):** Permission of department.

**HEKI 8030 RESEARCH IN HEALTH & KINESIOLOGY (3 credits)**

The course introduces students to scientific writing, quantitative research design, and statistical methods. Considerable emphasis is placed on evaluation of research in scholarly publications. A research proposal in the form of a grant proposal is written as one of the course requirements. Students will develop the skills necessary to analyze study designs in existing literature and create a research proposal. (Cross-listed with BMKI 9001).

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.



**HEKI 8050 ANATOMY FOR HEALTH SCIENCE EDUCATORS (3 credits)**

This course is intended for current or future teachers interested in the Health Science Education Endorsement. This course will primarily teach the structure and function of the body's systems, focusing on the musculoskeletal system. The basic structure and function of the cardiovascular, respiratory, nervous, digestive, endocrine, and lymphatic systems will be introduced. In addition, students will learn about common and innovative pedagogical approaches to teaching anatomy to P-12 students. This will include leveraging innovative technology such as 3d-printed models, smartphone applications, dissection tables, and virtual reality, among others.

**HEKI 8100 RESEARCH PROJECT (1-3 credits)**

Individual or group study and analysis of specific problems in health, physical education or recreation.

**Prerequisite(s):** Permission of instructor.

**HEKI 8106 ADVANCED MUSCULOSKELETAL ANATOMY (3 credits)**

This course is designed for students interested in healthcare careers, specifically in the rehabilitation sciences, wanting to improve their knowledge of the musculoskeletal system. Emphasis will be placed on palpations, range of motion assessment, and strength testing of various muscles and joints throughout the body. This course will consist of largely hands-on activities working in small groups. (Cross-listed with HEKI 4100).

**Prerequisite(s):** Prerequisites - BMCH 2400 or BIOL 2740, or instructor permission

**HEKI 8220 PROBLEMS & ISSUES IN HPER (3 credits)**

An examination of current problems and issues in HPER that relate to the general aims and purposes of HPER.

**HEKI 8300 ANALYSIS OF RESEARCH AND LITERATURE IN HUMAN MOVEMENT (3 credits)**

Survey of research and literature in Human Movement for the purpose of orienting the candidate to possible areas of research and developing an understanding of and appreciation for writings in the field. The course may be offered focusing on only one specific area in HPER.

**Prerequisite(s):** HPER 8030 or HEKI 8030

**HEKI 8446 HEALTH SCIENCE EDUCATION (3 credits)**

This course is designed to prepare candidates for the field of Health Science Education. This course aims to provide best-practices education related to implementing, conducting, and teaching a health science curriculum in P-12 schools. (Cross-listed with HEKI 4440).

**HEKI 8500 QUALITATIVE RESEARCH METHODS (3 credits)**

An examination of qualitative research methods. Emphasis on the broad application of qualitative research in public health, education, and social sciences. Course topics include research design, data collection, data analysis, and reporting.

**Prerequisite(s):** Not open to non-degree graduate students.

**HEKI 8850 EXERCISE FOR SPECIAL POPULATIONS (3 credits)**

The course will examine the physiological and medical limitations imposed on people with various common chronic diseases/conditions including arthritis, osteoporosis, exercise-induced asthma, obesity, diabetes, hypertension and pregnancy. Special groups such as children and elders will be discussed. Content will emphasize the etiology and guidelines for exercise testing, prescription, and supervision. (Cross-listed with BMKI 9851).

**Prerequisite(s):** PE 4940/KINS 4940 or PE 8946/KINS 8946

**HEKI 8910 INTERNSHIP IN HEALTH AND KINESIOLOGY (3 credits)**

This course is an off-campus, supervised, educational work experience of at least 150 clock hours at an approved worksite offering programs and experiences in fitness development or health promotion.

**Prerequisite(s):** 2.5 GPA and permission of Academic Advisor.

**HEKI 8990 THESIS (1-6 credits)**

The thesis experience is designed to help develop the candidate's ability to execute accepted procedures associated with the research process appropriate to the Master's degree.

**Prerequisite(s):** Permission. Not open to non-degree graduate students.

## Healthcare Logistics and Supply Chain Management (HLSC)

### Healthcare Logistics and Supply Chain Management Graduate Courses

**HLSC 8066 HEALTHCARE ANALYTICS FOR BUSINESS (3 credits)**

This course will focus on the mixing of analytics and technology to develop key performance indicators that integrate and evaluate clinical, administrative, and financial performance. Concepts in this course explore the intersection of information management, performance metrics, data visualization, and result communication spanning across the healthcare ecosystem. Topics covering health outcome analysis, financial performance, developing analytic strategies, data quality and governance, and the four stages of actionable intelligence are all used to educate the advantages of leveraging analytics. (Cross-listed with BSAD 8066, MGMT 8066, MGMT 4060, SCMT 8066, SCMT 4060).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**HLSC 8076 INTERNATIONAL LOGISTICS MANAGEMENT (3 credits)**

This course will focus on the logistics of international trade and how managers facilitate the flow of goods and services in import and export environments. Students will learn about infrastructure and business practices needed to manage international transportation, communications, services, and regulatory requirements. Students will develop an understanding of international terms of trade, transaction risk management, and location decisions for placement of warehouses and distribution centers. (Cross-listed with BSAD 8076, SCMT 4070, SCMT 8076).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**HLSC 8176 EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT (3 credits)**

This course will focus on trends influencing supply chain management and design in the 21st century. Key concepts in this course will include contemporary opportunities and challenges in creating customer value via the supply chain with a focus on globalization and risk management. Specific topics will include the influence of the empowered customer on supply chain design, global supply chain trends, and the need for integration of technology and talent to create a competitive advantage. (Cross-listed with BSAD 8176, SCMT 4170, SCMT 8176).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**HLSC 8336 PROJECT MANAGEMENT (3 credits)**

This course focuses on the systemic exploration of planning and executing complex projects to create organizational success. Using a comprehensive understanding of principles, methodologies, and tools within project management, students will learn how to initiate critical processes, plan objectives and constraints, execute management and leadership, monitor budgets and development, and close outcomes of complex projects. Skills obtained from this course enhance individuals' ability to recognize, identify, and prioritize organizations' culture and structure to lead projects across various industries efficiently. (Cross-listed with BSAD 8336, MGMT 8336, MGMT 4330, SCMT 4330, SCMT 8336)

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**HLSC 8356 GLOBAL SOURCING AND INNOVATION (3 credits)**

This course focuses on global suppliers as partners in the development and commercialization of new products. Students will learn about open innovation and the integration of internal and external business systems in new product innovation. Students will develop an understanding of regulatory policies related to information sharing and the intellectual property rights of buyers and suppliers. (Cross-listed with BSAD 8356, SCMT 4350, SCMT 8356).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**HLSC 8376 SUPPLY CHAIN ANALYTICS (3 credits)**

This course focuses on integrating supply chain management through the use of key performance indicators. Key concepts in this course include data visualization, supplier performance metrics, service-dominant logic, and the supply chain for data. Specific topics include the influence of the empowered customer on supply chain metrics, using metrics to develop a competitive advantage, data-driven decision making, and the four stages of actionable intelligence. (Cross-listed with BSAD 8376, SCMT 4370, SCMT 8376).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**HLSC 8386 INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT (3 credits)**

This course will focus on the strategic procurement of products and services in order to gain a competitive advantage through integrated supply management. Students will learn about strategic supply management, contract negotiation, and supplier quality management. Students will develop an understanding of supplier performance management through the use of supply chain information systems. (Cross-listed with BSAD 8386, MKT 4380, SCMT 4380, SCMT 8386).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**HLSC 8456 MANAGERIAL NEGOTIATION STRATEGIES (3 credits)**

This course introduces students to the theory and practice of negotiation across various organizational settings. The ability to successfully negotiate an outcome is an important aspect of management and leadership. Negotiation can be used to determine multiparty relationships, manage conflict resolution, and improve organizational outcomes. Using a combination of conceptual frameworks, roleplaying exercises, and debriefing opportunities, the design of this course is structured to help students understand the power and influence negotiation has over the successful outcomes of managers, leaders, and organizations. (Cross-listed with BSAD 8456, MGMT 4450, MGMT 8456, SCMT 4450, SCMT 8456).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor.

**HLSC 8680 SUPPLY CHAIN INTEGRATION (3 credits)**

This course will focus on the integration of internal and external systems designed to maximize the efficiency and effectiveness of supply chain networks developed by industrial organizations, government agencies, and not-for-profit organizations. Key concepts will include supply chain design, trends in technology, and cross-functional collaboration, coordination, and communication along the value chain. Specific topics will include the influence of empowered customers on supply chain integration, global supply chain trends, closed-loop supply chains, and the challenges and benefits of integrating technology and talent in the workplace. Students enrolled in the Master's in Healthcare Logistics and Supply Chain Management program should consult with their advisor about this course satisfying that degree's capstone requirement. (Cross-listed with BSAD 8680, SCMT 8680).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**HLSC 8710 SUPPLY CHAIN MANAGEMENT (3 credits)**

This course will focus on supply chain management as a key functional area of organizational success. Students will learn about current techniques used by supply chain practitioners to make strategic and tactical decisions that support the overall strategy and day-to-day operations of an organization. Students will develop an understanding of how supply chain decisions and appropriate metrics of performance can be utilized to improve the operational efficiency and effectiveness of an organization. (Cross-listed with BSAD 8710, SCMT 8710).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

## History (HIST)

### History Graduate Courses

**HIST 8010 RESEARCH DIRECTED READINGS PROJECT (1-3 credits)**

Special research problems and or directed readings arranged individually with students on topics not explored in other graduate offerings. If students do not complete all the readings during the semester in which they enroll in the course, they must complete all the readings within one academic year of their enrollment.

**Prerequisite(s):** Minimum of nine graduate hours in history completed. Permission of history Graduate Program Chair. Open only to students enrolled in the History MA program. Not open to non-degree graduate students.

**HIST 8016 RELIGION IN EARLY AMERICA (3 credits)**

This course examines the history and nature of religion in North America to c. 1770 with an emphasis on the British colonies. (Cross-listed with HIST 4010, RELI 4050).

**Prerequisite(s):** Must be a graduate student enrolled in History MA program. Not open to non-degree graduate students.

**HIST 8020 GRADUATE INTERNSHIP (1-3 credits)**

The graduate student is supervised by a member of the faculty in a project involving part-time employment or service with a museum, historic site, historical society or other institution. Work hours, activities, reporting requirements, and responsibilities must be specified in written agreement between employer, student, Graduate Program Chair, and/or supervising faculty member. Normally taken for 3 hours. If a hosting institution cannot commit to a supervised workload which the departmental advisor and/or Graduate Program Chair believe to be equivalent to 3 hours, course may be taken for fewer hours. In such circumstances, student may repeat course up to a total of 3 hours.

**Prerequisite(s):** Must be in the History/History & Government MA program, have completed at least 6 hours of graduate credit, and have History Graduate Program Chair (GPC) and/or supervising faculty approval before enrolling. Not open to non-degree graduate students.

**HIST 8030 GRADUATE HISTORICAL METHODOLOGY (3 credits)**

This course will examine various historical methodologies which have been employed by historians to provide structural interpretations of the past. Although exact content may vary, examples of methodologies include the Whig Interpretation, Marxism, Structuralism, Postmodernism, and the New Social History.

**Prerequisite(s):** Graduate student in History/History & Government program. Not open to non-degree graduate students.

**HIST 8040 FINAL PROJECT (3 credits)**

The final project is an exit requirement for students completing the non-thesis option for the Master of Arts in History. Students will produce original research under the supervision of a graduate faculty advisor. A grade of B or better is required.

**Prerequisite(s):** Permission of History Graduate Program Chair. Open only to students enrolled in the History MA program. Not open to non-degree graduate students.

**HIST 8046 HOMESCAPES: THE MATERIAL CULTURE OF EVERYDAY LIFE IN AMERICA, 1600-1860 (3 credits)**

This course examines the culture and technologies of house forms and work landscapes in North America, 1600-1860. (Cross-listed with HIST 4040).

**Prerequisite(s):** Graduate student in history, or permission of the graduate chair.

**HIST 8056 HISTORY OF WOMEN IN AMERICA TO 1875 (3 credits)**

This course examines the history of women in what is now the United States from the seventeenth century to 1875. Topics include law, work, sexuality and reproduction, slavery, cross-cultural encounters, religion, political activism, and the transformation of gender by the market and industrial revolutions. (Cross-listed with HIST 4050).

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**HIST 8066 HISTORY OF WOMEN IN AMERICA FROM 1875 - 1992 (3 credits)**

This course examines the history of women in the United States from 1875 to 1992. Topics include law, work, sexuality and reproduction, immigration, civil rights, political participation and party politics, and changes to the American gender system, including family structure and employment. (Cross-listed with HIST 4060, WGST 4060, WGST 8066).

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**HIST 8076 SLAVERY AND RACE RELATIONS IN THE AMERICAS (3 credits)**

Slavery and Race Relations in the Americas examines the historical relationship between the trans-Atlantic slave trade and American race relations, connecting the enslavement of Africans in the Americas to race relations in the Caribbean, Latin America, and the United States. (Cross-listed with HIST 4070, BLST 4650, BLST 8656, LLS 4650, LLS 8656).

**Prerequisite(s):** Graduate standing

**HIST 8086 THE BLACK ATLANTIC (3 credits)**

This course examines the cultural and ethnic history of Black people who comprised "The Black Atlantic." The course is organized historically and begins with a brief overview of the European slave trade on the West African Coast in the 15th century. From there, we look critically at the arrival of Africans to the New World, examine varieties of slavery and freedom in the Americas, and conclude with slave revolts and emancipation activism in the 18th and 19th century. We will use the Haitian Revolution (in which Haiti became the first country to be founded by formerly enslaved people) as a special case study, a conduit for our exploration of this socio-cultural, economic, and Diasporic space. (Cross-listed with BLST 8356, BLST 4350, HIST 4080).

**Prerequisite(s):** Graduate standing

**HIST 8146 COLONIAL AMERICAN HISTORY (3 credits)**

This course provides a study of the settlement and development of North America to c. 1763 with an emphasis on the British colonies. (Cross-listed with HIST 4140).

**HIST 8156 THE AMERICAN REVOLUTIONARY ERA, 1763-89 (3 credits)**

This course examines the period of the American Revolution beginning with the changed circumstances in the British North American colonies following the end of the French and Indian War and concluding with the ratification of the United States Constitution. The course analyses social, political, and military themes from this period. (Cross-listed with HIST 4150).

**Prerequisite(s):** graduate standing

**HIST 8166 THE EARLY AMERICAN REPUBLIC: FROM THE CONSTITUTION TO THE SECOND PARTY SYSTEM (3 credits)**

This course covers an important period of American history beginning with the first federal government and ending with an analysis of the consolidation of the Second American Party system. Topics to be covered include the earliest debates over the nature of the federal government, foreign relations, the emergence of political parties, and the rise of the Jacksonian democracy. (Cross-listed with HIST 4160).

**Prerequisite(s):** graduate standing

**HIST 8176 HISTORY OF THE AMERICAN WEST (3 credits)**

An examination of the unique aspects of the region of the United States known as "the west." Students will learn about the multiple peoples, cultures, and environments which combined to form this region. Content will also include an examination of how the myths of the west were created. (Cross-listed with HIST 4170).

**Prerequisite(s):** Graduate standing

**HIST 8186 THE AMERICAN CIVIL WAR PERIOD: FROM THE TEXAS REVOLUTION THROUGH RECONSTRUCTION (3 credits)**

This course focuses on the period of the American Civil War. It will begin with the background to, and events of the Texas Revolution. It will then consider the growing national tensions over slavery, particularly as a consequence of the Mexican-American War before examining the immediate causes of the civil war. The course will then examine the war itself before concluding with analysis of Reconstruction. (Cross-listed with HIST 4180).

**Prerequisite(s):** graduate standing

**HIST 8196 THE NATURE OF THE PAST: AMERICAN ENVIRONMENTAL HISTORY, PRE-HISTORY TO THE PRESENT (3 credits)**

This course will introduce students to the field of American Environmental History. Students will engage with literature produced by scholars who, broadly speaking, research and write about the many ways in which humans have shaped nature and, conversely, how nature has shaped humans over time. We will focus on the myriad peoples and cultures that have thrived in what is presently the United States and how these peoples have interacted with their physical environments in a multitude of contexts, from the transformation of ecosystems for economic purposes, to the cultural and scientific ideas that have shaped human notions of the natural world, to the ways in which people have mobilized governments to transform the environment. (Cross-listed with ENVN 4390, HIST 4390, SUST 4390).

**HIST 8246 EMERGENCE OF MODERN AMERICA (3 credits)**

This course examines American history from the end of Reconstruction to the end of World War II. Among the topics covered are western expansion, industrialization, immigration, and the expanding international footprint of the United States. (Cross-listed with HIST 4240).

**Prerequisite(s):** graduate standing

**HIST 8336 U.S. CONSTITUTIONAL HISTORY TO 1860 (3 credits)**

This course will examine the history of the United States constitution from its promulgation in 1787 through the end of the Civil War. This will include consideration of both English and colonial precedents. The course will analyze the process of writing and ratifying the document in the late 1780s and will then look at some of the key legal decisions between 1790 and 1860. (Cross-listed with HIST 4330).

**Prerequisite(s):** graduate standing

**HIST 8346 U.S. CONSTITUTIONAL HISTORY SINCE 1860 (3 credits)**

This course examine the increasingly important role played by competing interpretations of the United States constitution since the outbreak of he Civil War. This will include the emergence of the idea of a "living constitution," the extension of constitutional guarantees to the states, and examination of critical Supreme Court cases. (Cross-listed with HIST 4340).

**Prerequisite(s):** graduate standing

**HIST 8366 THE U.S. IN THE COLD WAR (3 credits)**

This course will examine the impact of the Cold War in modern American history on two levels. First it will seek to understand how the Cold War influenced American foreign policy decisions since the end of World War II and examine the long term consequences of those policies for both the U.S. and the world. Secondly, this course will examine how the Cold War impacted or shaped American culture, domestic politics, and social movements in the postwar period. (Cross-listed with HIST 4360).

**Prerequisite(s):** Graduate student in history, or permission of the graduate chair.

**HIST 8406 HISTORY OF NATIVE AMERICAN INDIGENOUS PEOPLES (3 credits)**

This survey of North American Indigenous peoples provides a historical overview of the peoples and their interactions with settlers, wars, policies, and other events that have shaped modern Tribal and U.S. relations. (Cross-listed with HIST 4400, NAMS 4400).

**Prerequisite(s):** Graduate standing

**HIST 8416 HISTORY OF NEBRASKA (3 credits)**

An examination of the history of Nebraska from Native American occupation to the present, with emphasis on environmental factors that have shaped the region and its people. (Cross-listed with HIST 4410).

**Prerequisite(s):** Graduate standing

**HIST 8426 THE SIOUX TRIBE (3 credits)**

A cultural and historical study of the Sioux tribes emphasizing the earliest historic period to the present. (Cross-listed with HIST 4420).

**HIST 8456 NATIVE AMERICAN ENVIRONMENTALISM (3 credits)**

This course studies North American tribal subsistence and natural resource use practices from the early historic period to the present, Native Americans as environmentalists, and modern tribal environmentalism. (Cross-listed with HIST 4450).

**HIST 8466 AMERICAN IMMIGRATION HISTORY (3 credits)**

A study of American immigration from the colonial era to the present. Topics covered include Old World origins of migration, the old immigrants from western Europe, the new immigrants from southern and eastern Europe, non-European immigrants, native-born American responses to immigrants, the periods of immigrant adjustment in the new physical environment, and the contemporary revival of ethnicity. (Cross-listed with HIST 4460).

**Prerequisite(s):** Graduate student standing or permission of the graduate chair

**HIST 8486 THE UNITED STATES IN THE 1960S (3 credits)**

This course is a review of the economic, social, cultural, and political changes that marked the United States in the 1960s. (Cross-listed with HIST 4480).

**HIST 8536 EUROPE: RENAISSANCE & REFORMATION (3 credits)**

This course will examine European history from the fifteenth through the seventeenth centuries. Among the topics which will be covered are the Renaissance, the Protestant Reformation, the Catholic Reformation, Wars of Religion, the beginning of European overseas expansion, and the Scientific Revolution. In addition to examining the religious ideas and revolutions of the period, there will also be analysis of economic, social, and political change. (Cross-listed with HIST 4530).

**Prerequisite(s):** graduate standing

**HIST 8546 MEDIEVAL EUROPE (3 credits)**

A dive into the history of medieval Europe through the stories of men and women, their beliefs, struggles, contradictions and achievements. (Cross-listed with HIST 4540).

**Prerequisite(s):** graduate standing

**HIST 8556 BUILDING CATHEDRALS: FAITH, POWER, AND TECHNOLOGY IN THE MIDDLE AGES (3 credits)**

This course explores the construction of medieval cathedrals as monumental expressions of faith, power, and technological innovation. Through primary sources, historical analysis, and interactive role-playing, students will examine how these structures embodied the ambitions of bishops, kings, and merchants, shaped urban landscapes, and served as centers of religious life. Topics include the economic and social networks behind cathedral building, the role of relics and pilgrimage, and advancements in architectural technology. A key component of the course is a role-playing simulation in which students engage in a historical debate over the design of the dome for the Cathedral of Florence (1418). (Cross-listed with HIST 4550).

**HIST 8616 TUDOR AND STUART ENGLAND (3 credits)**

English history from the end of the Wars of the Roses in 1485 to the death of Queen Anne in 1714. The course will examine the efforts of the Tudors and Stuarts to establish dynasties, the religious upheavals in the sixteenth and seventeenth centuries, changes in the role of Parliament, the Civil Wars, and the beginning of English overseas expansion. (Cross-listed with HIST 4610).

**Prerequisite(s):** graduate standing

**HIST 8726 THE HOLOCAUST (3 credits)**

An interdisciplinary approach in a seminar oriented format discussing various aspects of the most notorious genocide in modern times. The course will explore the history of anti-Semitism, the rise of Nazi Germany and the road to the 'final solution.' It will further explore psychological, sociological and intellectual aspects of the dark side of humanity. (Cross-listed with HIST 4720, RELI 4160, RELI 8166).

**HIST 8736 ISRAEL AND PALESTINE (3 credits)**

This course will outline the history of the conflict over Palestine/Israel, examine its present status, and explore its likely unfolding in the future. It seeks to provide a broad and concise understanding of the historical events which have shaped the relations between Israelis and Palestinians, as well as a keen awareness of the challenges and prospects related to their future. (Cross-listed with HIST 4730).

**HIST 8746 COMPARATIVE GENOCIDE (3 credits)**

This course explores genocide and its many forms throughout history. It begins by considering the varied elements and definitions of the term. Next it looks at what makes people kill before going on to examine many different genocides throughout history. Finally, the course addresses the prosecution and prevention of genocide. (Cross-listed with HIST 4740).

**Prerequisite(s):** Graduate student enrolled in History MA program. Not open to non-degree graduate students.

**HIST 8806 U.S. AND THE MIDDLE EAST (3 credits)**

This course focuses on the evolution of US relations with and Foreign Policy vis-a-vis the Middle East over the last six decades. It seeks to illuminate the constant features in contrast to the changes in direction, examining the agendas of varying administrations as well as the treatment by the media of this region. It follows a chronological framework with particular emphasis on key thematic topics. While emphasizing the political dimensions of international relations, the class will also explore cultural and social aspects of the ties between the US and the peoples of the Middle East. (Cross-listed with HIST 4800).

**Prerequisite(s):** Not open to non-degree graduate students

**HIST 8826 MESOPOTAMIA AND PRE-ISLAMIC PERSIA (3 credits)**

Examination of the Ancient Near East from the emergence of its earliest civilizations—Sumer, Akkad and Babylonia—through the Bronze and Iron Ages, concluding with Persia in the Common Era (CE) just before the rise of Islam. (Cross-listed with HIST 4820).



**HIST 8836 ANCIENT GREEK MYTH, RELIGION & MAGIC (3 credits)**

Students will examine the impact of ancient Greek myth and belief on actual religious practice: e.g., "lived" religion. Areas covered include formal civic sacrifice, wartime religion, family and personal devotions, mystery cults, oracles and seers, plus the popular pursuit of magic. (Cross-listed with HIST 4830, RELI 4830, RELI 8836).

**Prerequisite(s):** Junior standing

**HIST 8846 ALEXANDER THE GREAT AND THE MACEDONIAN ORIGIN (3 credits)**

Examination of the conquests of Alexander the Great, as well as controversies in Alexander studies. Includes discussion of both the Macedonian culture that produced him and the career of his father, Philip II. (Cross-listed with HIST 4840).

**Prerequisite(s):** Graduate standing

**HIST 8856 ROME AND THE EARLY CHURCH (3 credits)**

Students will cover Roman-Christian-Jewish interactions from just before the birth of Jesus of Nazareth to c. 450 CE, with an emphasis on social and political history. We catalogue Christianity's transformation from its origins as a Jewish movement and an illegal "superstition" to the dominant religion of the Roman empire. (Cross-listed with HIST 4850, RELI 4850, RELI 8856).

**Prerequisite(s):** Junior standing.

**HIST 8916 TOPICS IN HISTORY (3 credits)**

This course introduces students to specialized subject matter not available in existing History courses. Course may be repeated as long as the topic is substantially different each time. Course may be cross-listed with other programs e.g. Native American Studies (NAMS), Women's and Gender Studies (WGST) when topics are appropriate. (Cross-listed with HIST 4910).

**Prerequisite(s):** Graduate standing

**HIST 8990 THESIS (1-6 credits)**

Thesis research project written under supervision of an adviser.

**Prerequisite(s):** Completion of twenty-four hours of History or History & Government graduate work. Permission of History Graduate Program Chair. Not open to non-degree graduate students.

**HIST 9100 SEMINAR IN HISTORY (3 credits)**

This seminar guides advanced graduate students through critical readings and practices in historical research or historiography. Topics will vary and course can be repeated under different topics.

**Prerequisite(s):** Graduate students in History/History & Government who have completed HIST 2980 or equivalent, or approval of GPC. Non-History grad students may be admitted after consultation with History GPC and instructors. Not open to non-degree graduate students.

**HIST 9200 COLLOQUIUM (3 credits)**

The colloquium guides advanced graduate students through the historiography of a specific subject. Topics will vary and course can be repeated under different topics. Open only to students enrolled in MA program in history unless permission granted by History Department Graduate Program Chair.

**Prerequisite(s):** Graduate students in History/History & Government who have completed HIST 2980 or equivalent, or approval of GPC. Non-History grad students may be admitted after consultation with History GPC and instructors. Not open to non-degree graduate students.

# Human Centered Computing (HCC)

## Human Centered Computing Graduate Courses

**HCC 8000 TECHNOLOGY & INNOVATION STUDIO (3 credits)**

HCC 8000 is a studio course that provides a foundation to incoming MSc ITIN/HCC students from all disciplines through self-guided modules covering topics from technology, innovation, design, and computing. Students will use the modules to practice applying and mastering skills in a self-guided collaborative environment. Each module will consist of three levels of difficulty. Student performance will be assessed by students' personal progress and skills improvement as shown by them completing increasingly difficult levels of the modules. Students will be graded on a satisfactory/unsatisfactory basis. The class requires in-person participation and attendance.

**Prerequisite(s):** Students in the MS in IT Innovation/Human Centered Computing program must register during their first three terms. Not open to non-degree graduate students.

**HCC 8006 SPECIAL TOPICS IN IT INNOVATION (3 credits)**

This course is designed to acquaint students with issues which are current to the field or emerging trends in the IT Innovation area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once. (Cross-listed with ACMP 4000).

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.

**HCC 8100 INTERMEDIA (3 credits)**

This is an ongoing course that brings together students of the arts and students of scientific disciplines in order to facilitate and promote the creation of intermedia art, and to further explore shared resources, joint research, and exhibition/performance opportunities.

**Prerequisite(s):** Graduate Standing

**HCC 8210 DESIGN SCIENCE AND THEORY DEVELOPMENT (3 credits)**

The purpose of this course is to help students understand theory, theoretical contributions, and design science. Students will approach such questions as: What is a theory? What makes a good theory? Why are theories just theories and not laws? What is not a theory? Following this introduction, we explore design science as a research methodology and Information Technology design theories. Ultimately, students create their own new studies around some design concept.

**Prerequisite(s):** Graduate standing / permission of the instructor

**HCC 8220 DESIGN PROCESS (3 credits)**

Inter-disciplinary design teams will work together to design and innovate products of the future. The design projects in the course are developed to directly address a problem brought forward by a technology company in the Omaha area in order to provide students with a design experience that directly impacts real-world product development. Students will focus on the technological (interface), physical (ergonomics) and aesthetic quality of design, and will learn how to conduct rigorous user studies in a laboratory setting. Teams will be cross disciplinary and consider all aspects of the design, creation, testing, and fabrication of the products.



**HCC 8256 INNOVATION VENTURES (3 credits)**

This team-based course provides students with the opportunity to practice the basic tools of business discovery and validation. Concepts and techniques in innovation, entrepreneurship, and strategy will be used to aid students in the venture creation process. Important considerations impacting the viability of the venture post formation will also be explored. Practical real-world experimentation is the central component of the course and will help students to conceive, develop, and launch their own innovative ventures. (Cross-listed with BSAD 8726, ACMP 4720, ENTR 4720, ENTR 8726, MGMT 4720, MGMT 8726, MKT 4720, MKT 8726).

**Prerequisite(s):** Admission to a graduate program or instructor permission.

**HCC 8266 USER EXPERIENCE DESIGN (3 credits)**

User experience (UX) design is concerned with the application of user-centered design principles to the creation of computer interfaces ranging from traditional desktop and web-based applications, mobile and embedded interfaces, and ubiquitous computing. This course provides in-depth, hands-on experience with real world application of the iterative user-centered process including contextual inquiry, task analysis, design ideation, rapid prototyping, interface evaluation, and reporting usability findings. (Cross-listed with CSCI 4260, CSCI 8266, ACMP 4260).

**HCC 8300 RESEARCH FOUNDATIONS (3 credits)**

This course serves as an introduction to research literature and research methodology in the innovation and creativity research domain. Students are introduced to skills, methodological issues, and bibliographic resources to enhance their ability in critically evaluating and conducting research in the IT Innovation field. Through a series of readings, in-class discussions, and lectures the student will select and define a research question, explore the various types of research designs and complete a literature review. This course is structured to make research meaningful and significant and enable students to write effectively.

**Prerequisite(s):** CIST 2500 or equivalent

**HCC 8366 METAVERSE INNOVATIONS (3 credits)**

Recent technological breakthroughs across computing disciplines are laying the foundation for a paradigm shift in how we interact with and relate to digital technology. The metaverse is a term that is helpful in coalescing these divergent concepts into a single word that symbolizes a future where the physical and virtual worlds are blurred beyond distinction. By means of disruption brought about by the advent of the computer, the internet, and personal computing devices, the enormity and impact of the metaverse across every aspect of human civilization will be unprecedented. The future of work, the economy, and the fundamental social fabric that underpins it all will inevitably be transformed. This course provides students the opportunity understand the technological foundations of the metaverse and equip with the tools and knowledge to be innovators in this space across academic disciplines and economic sectors. (Cross-listed with ACMP 4360).

**HCC 8900 INDEPENDENT STUDIES (1-3 credits)**

A variable credit course for the graduate student who will benefit from independent reading assignments and research type problems. Independent study makes available courses of study not available in scheduled course offerings. The student wishing to take an independent study course should find a faculty member willing to supervise the course and then submit, for approval, a written proposal (including amount of credit) to the IT Innovation Graduate Program Committee Chair at least three weeks prior to registration.

**Prerequisite(s):** Written permission required

**HCC 8910 INTERNSHIP (1-3 credits)**

The purpose of this course is to provide the students with an opportunity for practical application and further development of knowledge and skills acquired in the MS in IT Innovation program. The internship gives students professional work experience and exposure to the challenges and opportunities faced by IT professionals in the workplace.

**Prerequisite(s):** Students must have completed a minimum of 12 credit hours towards the MS in ITIN program. Instructor permission is required to register. Not open to non-degree graduate students.

**HCC 8960 THESIS EQUIVALENT PROJECT IN IT INNOVATION (1-6 credits)**

This course allows a graduate student to conduct a research project in IT Innovation or a related area. The project is expected to place an emphasis on applied, implementations-based, or experimental research. The process for development and approval of the project must include: 1) apply for eligibility to take ACMP 8960 with a chosen faculty advisor, 2) register for 6 credits of ACMP 8960 to complete the chosen project, 3) participate in a public oral defense of their project work to the Graduate Concentration Committee. The approved written project will be submitted to the Office of Graduate Studies by the advertised deadlines.

**Prerequisite(s):** Permission of graduate advisor. Not open to non-degree graduate students.

**HCC 8990 THESIS (1-6 credits)**

This course is required for the Master of Science degree in the MS in IT Innovation Program. The purpose of this course is to conduct original research in IT Innovation, under supervision of a faculty member, culminating in a paper document that represents the student's competency in their chosen field, as well as scholarly contributions. With consultation from their committee, MS in IT Innovation thesis students should be prepared to independently complete the writing of their thesis and successfully defend their thesis.

**Prerequisite(s):** Graduate major in ITIN and approval of the Thesis Advisory Committee.

**HCC 9300 SOCIAL COMPUTING AND ITS APPLICATIONS (3 credits)**

It is indisputable that social media and the Internet more broadly reshaped information disbursement and processing. Digital participation and communication has become the 'new normal' and the dividing line between off- and online communities is increasingly blurred. This leads to specific challenges in the extraction and analysis of online social media data, and the management of new communication.

**Prerequisite(s):** Open to all currently-admitted doctoral students. Students should have a technical aptitude; experience with at least one web scripting language, (e.g. PHP, rails, python etc) is helpful. Experience with JSON is advantageous but not essential.

## Human Resource Management (HRM)

### Human Resource Management Graduate Courses

**HRM 8136 HUMAN RESOURCE MANAGEMENT (3 credits)**

This course is a comprehensive review of the field of human resource management and its relevance to employees, managers, and organization stakeholders for goal achievement. The design of this course is structured to educate future managers and leaders on the importance of utilizing effective HR methods that comply with federal laws and the critical role of HR professionals in achieving the organization's positive workplace culture, competitive advantage, and overall success. (Cross-listed with BSAD 8136, HRM 4030, MGMT 4030, MGMT 8136).

**Prerequisite(s):** BSAD 8250 (Organizational Behavior) is recommended (but not required) prior to enrollment.

**HRM 8146 TOTAL REWARDS (3 credits)**

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee compensation and benefits programs. Students will gain and utilize effective strategies for managing the single largest controllable expense for organizations; employee pay and benefits. The design of this course is most beneficial for students pursuing future careers in management and human resource professions. (Cross-listed with BSAD 8146, HRM 4010, MGMT 4010, MGMT 8146).

**Prerequisite(s):** BSAD 8136 is recommended but not required.

**HRM 8156 TALENT DEVELOPMENT (3 credits)**

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee training and development programs to optimize human capital effectiveness in modern organizations. The course is designed to enable future managers and human resource professionals to utilize effective strategies for assessing employee training needs and developing appropriate solutions to maximize talent utilization. (Cross-listed with BSAD 8156, HRM 4120, MGMT 4120, MGMT 8156).

**Prerequisite(s):** BSAD 8136 is recommended but not required.

**HRM 8166 STAFFING THE ORGANIZATION (3 credits)**

This course is a comprehensive review of issues and techniques involved in the acquisition and management of a high quality and diverse workforce for optimal organizational effectiveness. Students pursuing future manager and human resource professions will benefit from practice utilizing effective strategies for recruiting, selecting, placing, and integrating new employees into an organization's workforce. (Cross-listed with BSAD 8166, HRM 4110, MGMT 4110, MGMT 8166).

**Prerequisite(s):** BSAD 8136 is recommended but not required.

## Information Systems & Quantitative Analysis (ISQA)

### Information Systems & Quantitative Analysis Graduate Courses

**ISQA 8016 BUSINESS INTELLIGENCE (3 credits)**

This course intends to provide graduate students in-depth exposure to the growing field of business intelligence. Business intelligence (BI) consists of the set of concepts and techniques used to analyze business data in support of decision-making and planning. BI spans a number areas of management information systems, including Decision Support Systems (DSS), Enterprise Resource Planning (ERP), Data Warehousing, Knowledge Management, Customer Relationship Management, Data Mining, and others.

**Prerequisite(s):** (ISQA 4150 or ISQA 8156) and ISQA 8040 and ISQA 8050. Not open to non-degree graduate students.

**ISQA 8030 FOUNDATIONS OF INFORMATION SYSTEMS (3 credits)**

This course gives you an introduction to organizations and the role that information and information systems play in supporting an organization's operations, decision-making processes, quality management, and strategic activities. The course provides an introduction to the management of information systems function, the strategic and regulatory issues of telecommunications, and ethical and legal issues related to information systems. This course may not be used in a plan of study for any graduate program at UNO.

**Prerequisite(s):** Admission into the MS in MIS program.

**ISQA 8040 AN OVERVIEW OF SYSTEMS DEVELOPMENT (3 credits)**

The course presents an overview of the systems development lifecycle and database development. The course will focus on theory, current tools and techniques that the system developer can use to develop and document information systems. The purpose of this course is to prepare the student for further graduate-level study of information systems. This course may not be used in a plan of study for any graduate program at UNO.

**ISQA 8060 RESEARCH IN MIS (3 credits)**

This course covers research methods and their application to the development and evaluation of management information systems. Also covered is the relationship between organization theory and IS research.

**Prerequisite(s):** CIST 2500, CIST 2100, and ISQA 8040, or permission of the instructor.

**ISQA 8070 SEMINAR IN MANAGEMENT INFORMATION SYSTEMS (1 credit)**

This course is designed to acquaint students with issues which are current to the field or harbingers or emerging trends in the information systems area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once.

**Prerequisite(s):** Permission of the instructor. Additional prerequisite courses may be required for particular course offerings.

**ISQA 8080 SEMINAR IN MANAGEMENT INFORMATION SYSTEMS (3 credits)**

This course is designed to acquaint students with issues which are current to the field or harbingers or emerging trends in the information systems area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once.

**Prerequisite(s):** 1) Permission of the instructor. 2) Additional prerequisite courses may be required for particular course offerings.

**ISQA 8086 SPECIAL TOPICS: INFORMATION SYSTEMS & QUANTITATIVE ANALYSIS (1-5 credits)**

This course is designed to acquaint students with issues which are current to the field or harbingers or emerging trends in the information systems area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once. (Cross-listed with ISQA 4000)

**Prerequisite(s):** Permission of instructor. Additional prerequisites may be required for particular topic offerings.

**ISQA 8090 SEMINAR IN MANAGEMENT INFORMATION SYSTEMS (2 credits)**

This course is designed to acquaint students with issues which are current to the field or harbingers or emerging trends in the information systems area. Topics will vary across terms. This course may be repeated, but no topic may be taken more than once.

**Prerequisite(s):** Permission of the instructor. Additional prerequisite courses may be required for particular course offerings.

**ISQA 8106 INFORMATION SYSTEMS ARCHITECTURE AND ORGANIZATION (3 credits)**

This course examines the frameworks and tools used to develop an organization's information system architecture. It provides the analytical skills and conceptual frameworks with which to make recommendations and decisions regarding the integration of information technology components into an information system architecture. (Cross-listed with ISQA 4100)

**Prerequisite(s):** CIST 2100 and ISQA 3310

**ISQA 8136 INFORMATION TECHNOLOGY FOR DEVELOPMENT (3 credits)**

Information Technology for Development (ITD) is the implementation and evaluation of information technology infrastructures to stimulate economic, social and human development. In this service-learning course, students will learn and apply ITD concepts for developing and adding value through IT by working with small business entrepreneurs in Omaha or rural Nebraska. Students will evaluate micro-business technology needs, prepare business technology plans, provide training, and implement appropriate solutions, to the extent possible within a semester class. (Cross-listed with ISQA 4130)

**Prerequisite(s):** Though not required, the following courses or their equivalent would provide the necessary background : CIST 1100, CIST 1300, ISQA 3210, ISQA 3310, ISQA 3400. Not open to non-degree graduate students.

**ISQA 8156 ADVANCED STATISTICAL METHODS FOR IS&T (3 credits)**

This course emphasizes the application and interpretation of statistical methods including design of experiments, analysis of variance, multiple regression, and nonparametric procedures and the use of statistical computer packages. The intent is to develop quantitative abilities needed for quantitatively intensive jobs and for advanced study in management information systems, computer science and information technology. (Cross-listed with ISQA 4150)

**Prerequisite(s):** CIST 2500 or equivalent (at least one course in statistics)

**ISQA 8160 APPLIED DISTRIBUTION FREE STATISTICS (3 credits)**

The primary objective of this course is to expose students to methods of analyzing data from non-normal populations including binomial tests, contingency tables, use of ranks, Kolmogorov-Smirnov type statistics and other selected topics.

**Prerequisite(s):** Admission to MS program in Management Information Systems or permission of instructor. This course assumes prior knowledge with basic descriptive and inferential statistics from an introductory undergraduate course (e.g., CIST 2500).

**ISQA 8166 ENTERPRISE RESOURCE PLANNING SOFTWARE CONSULTING (3 credits)**

Enterprise Resource Planning (ERP) consulting is designed to provide students foundational knowledge required to become a consultant working with enterprise systems. ERP systems are used by most organizations to manage and integrate the core functions of a business. Students will be exposed to a broad range of consulting skills that spans package selection to the implementation process. Students will work with a live instance of an ERP system focusing on the cross-functional integration of core business processes primarily in a manufacturing environment including finance, operations/supply chain, procurement, and fulfillment. The goal of the course is to provide students a foundation for careers in the area of ERP systems and consulting. (Cross-listed with ISQA 4160, SCMT 4160)

**ISQA 8176 DIGITAL SUPPLY CHAIN & LOGISTICS (3 credits)**

Global Supply Chains are being disrupted by digital transformation driven by emerging technologies such as IoT (internet of things) and AI/ML (Artificial Intelligence/Machine Learning). This course will take a closer look at global supply chains and logistics with an emphasis on the impact of digitalization. We will explore the typical global supply chain processes and how state-of-the-art and emerging technologies impact them. Thus, the class views global digital supply chains by integrating business and technological perspectives. The course will start with an overview of technologies relevant to digital supply chains. We will then discuss digitalization strategy and digital supply chains, fundamental GSCM (Global Supply Chain Management) processes and their potential for digitalization, and discussion of IT/software systems, IoT, AI/ML, Data Analytics/Visualization, and related facets that impact digital supply chains. The course will culminate with an integrated case study and/or research paper (graduate). (Cross-listed with ISQA 4170).

**Prerequisite(s):** It is preferable that students have taken an introductory supply chain class or have some experience in the transportation, logistics and supply chain management sector.

**ISQA 8180 ELECTRONIC COMMERCE (3 credits)**

Electronic Commerce is the digital enablement of transactions between multiple parties. A multitude of technologies, tools and applications have brought about changes in business, and society that require careful consideration. Students are given an overview of electronic commerce business models and required to apply these to solve business problems or take on opportunities presented. They will cover topics such as social networking, electronic markets, and political and ethical issues associated with electronic commerce, and business plans for technology ventures. They will apply these concepts using Web 2.0 tools, mobile applications and website design assignments.

**ISQA 8196 PROCESS REENGINEERING WITH INFORMATION TECHNOLOGY (3 credits)**

Business process reengineering issues are examined. Reengineering concepts and methods are introduced. Additional special project(s) are required. SAP will be introduced. (Cross-listed with ISQA 4190)

**Prerequisite(s):** CIST 2500; prerequisite/co-requisite ISQA 4110.

**ISQA 8206 INFORMATION AND DATA QUALITY MANAGEMENT (3 credits)**

The course primarily focuses on developing an in-depth understanding of Data and Information Quality (DQ and IQ) concepts and issues. On completing this course students will be able to understand and use DQ and IQ Concepts in Information Systems projects, be able to recognize various patterns of Data and Design Deficiencies in Systems and be able to suggest appropriate DQ and IQ improvement plans in light of known deficiencies in systems. (Cross-listed with ISQA 4200)

**Prerequisite(s):** CIST 2500

**ISQA 8210 MANAGEMENT OF SOFTWARE DEVELOPMENT (3 credits)**

This course should encourage you to think critically about aspects of software development that make it difficult and strategies to mitigate these challenges. This course integrates concepts from software engineering, management science, psychology, and organizational behavior to identify, understand, and propose solutions to problems associated with software development. We examine and consider issues from various perspectives, such as the project manager, development team, senior management, and project sponsor. This course prepares students for various roles within a software development effort including leadership positions in software development. Students will practice software project management and agile methods of managing projects in a semester long team project using contemporary project and development methods.

**Prerequisite(s):** Admitted to MS in MIS or instructor permission. Prior knowledge assumed in SW development & relational databases - ISQA 8040/ISQA 4110 & ISQA 3310/equivalent and in web development - ISQA 3900/equivalent. Not open to non-degree graduate students.

**ISQA 8220 ADVANCED SYSTEMS ANALYSIS AND DESIGN (3 credits)**

This course is a systems analysis and design course for systems and business analysts. The course presents an overview of object-oriented system analysis and design. The course will then focus on theory, best practices, and modern methodologies that analysts can use to analyze and design information systems.

**Prerequisite(s):** ISQA 8040 or (ISQA 4110 and ISQA 4120) or equivalent and ISQA 8050 or ISQA 3310 or equivalent

**ISQA 8306 DATABASE ADMINISTRATION (3 credits)**

This course is designed to give students an applied, practical introduction to database administration. Students will gain an understanding of the functioning of a database management system and its relationship to the computing environment in which it runs. They will learn the concepts, principles, and techniques necessary to carry out such functions as database object creation, storage management, capacity planning, performance tuning, backup and recovery, and security management. Each semester the course will focus on one commercial database management system (DBMS), such as Oracle. (Cross-listed with ISQA 4300)

**Prerequisite(s):** ISQA 8040 or ISQA 3310 or CSCI 4850. Not open to non-degree graduate students.

**ISQA 8310 IT INFRASTRUCTURE & CLOUD COMPUTING (3 credits)**

This course provides a graduate-level introduction to the business and technical decisions around technical infrastructure. It covers topics related to computer and systems architecture and communications networks, with a focus on the technical and business decisions around technology. Students completing the course will be able to understand and design network infrastructure, evaluate cloud computing offerings, and communicate their decisions. The course covers hardware, software, and cloud computing technologies.

**ISQA 8340 APPLIED REGRESSION ANALYSIS (3 credits)**

The primary objective of this course is to expose students to regression models and applications with particular emphasis on applying these concepts to IT research. Topics to be discussed include: Foundations of regression analysis using least squares procedures; model formulation, stepwise regression, transformations; graphical methods, estimation; inference; influence diagnosis; matrix formulation, multicollinearity, time series, and nonlinear models.

**Prerequisite(s):** ISQA 4150 or ISQA 8156, not open to non-degree graduate students.

**ISQA 8380 ENTERPRISE ARCHITECTURE AND SYSTEMS INTEGRATION (3 credits)**

This course is designed to give students grounding in the concepts, issues, and tools needed to manage enterprise architecture, distributed systems & Internet-based environments. The goal of the course is to equip students to make the architecture and infrastructure-related decisions needed for successful development and use of contemporary client/server and Internet-based systems. Topics include middleware, architecture, XML, JSON, web services, service-oriented architecture, enterprise application integration, distributed computing services, Model View Controller (MVC) development frameworks.

**Prerequisite(s):** ISQA 8310 and ISQA 8050 or equivalent; permit required.

**ISQA 8410 DATA MANAGEMENT (3 credits)**

The course provides in-depth coverage of such areas as: the relational model, SQL, data modeling, data quality management, database design, data warehousing, business intelligence, document and content management, NoSQL systems, and data governance. The course offers a mix of theoretical treatment and hands-on application. Current DBMS and data modeling software will be used.

**Prerequisite(s):** ISQA 8050 or equivalent, permit only.

**ISQA 8420 MANAGING THE I.S. FUNCTION (3 credits)**

The course provides a focus on the business management implications of the information explosion. The course is organized around a management audit of the information services activity to help present and future managers recognize and implement effective information services management.

**Prerequisite(s):** CIST 2100 and ISQA 8040. Not open to non-degree graduate students.

**ISQA 8450 NOSQL AND BIG DATA TECHNOLOGIES (3 credits)**

The course will cover topics in the area of NoSQL and Big Data management. The course is intended to get students familiarized with NoSQL and Big Data technologies, explore how these database technologies differ conceptually from traditional relational database technologies, understand their applications, uses, advantages, and disadvantages, and provide hands-on experience with NoSQL and Big Data databases. The course offers a mix of theoretical treatment and hands-on application of the discussed NoSQL and Big Data technologies.

**Prerequisite(s):** Prior exposure to data management is expected. The prereq is: ISQA 3310, ISQA 8040, CSCI 4850, or work experience that has given you a comparable grounding in database concepts and technologies; in this case permission by the instructor is needed.

**ISQA 8460 INTERNET OF THINGS (IOT), BIG DATA AND THE CLOUD (3 credits)**

This course introduces the Internet of Things (IoT). It provides an overview of a number of technologies and research disciplines that enable the Internet to reach out into the real world of physical objects. In the future, the "Things" in question may have identities and virtual personalities, operating in smart spaces using intelligent interfaces to connect and communicate with the social, environmental, and user context.

**Prerequisite(s):** Basic Web Development using HTML/CSS and some MVC framework. The equivalent of two semester exposure to programming.

**ISQA 8525 GRAPHICAL USER INTERFACE DESIGN (3 credits)**

This course is an introduction to interaction design with a primary emphasis on designing usable and useful computer interfaces. Students will learn the principles of interface design grounded in a fundamental understanding of human cognitive processes. They will learn how end-users develop and use mental models of interaction and will apply this knowledge to the design of interfaces for real-world applications. A design project will challenge students to plan their own designs, to develop interfaces and to integrate them into a working application prototype, to test their application with real users, and to effectively communicate the overall results. (Cross-listed with ISQA 3520)

**Prerequisite(s):** CIST 1300

**ISQA 8546 COMPUTER SECURITY MANAGEMENT (3 credits)**

The purpose of this course is to integrate concepts and techniques from security assessment, risk mitigation, disaster planning, and auditing to identify, understand, and propose solutions to problems of computer security and security administration. (Cross-listed with CIST 4540, CYBR 4540, CYBR 8546)

**Prerequisite(s):** CYBR 4360 or permission of the instructor.

**ISQA 8560 INFORMATION WARFARE AND SECURITY (3 credits)**

This course will study the nature of information warfare, including computer crime and information terrorism, as it relates to international, national, economic, organizational, and personal security. Information warfare policy and ethical issues will be examined.

**Prerequisite(s):** CIST 2100 or BSAD 8030 or ISQA 8030, or permission of instructor required.

**ISQA 8570 INFORMATION SECURITY POLICY AND ETHICS (3 credits)**

The course will cover the development and need for information security policies, issues regarding privacy, and the application of computer ethics. (Cross-listed with IASC 8570)

**Prerequisite(s):** CIST 2100 or BSAD 8030, or permission of instructor.

**ISQA 8580 SECURITY RISK MANAGEMENT AND ASSESSMENT (3 credits)**

The purpose of this course is to prepare the student for managing information security at the organizational level. This course will combine concepts from strategic management, decision science and risk analysis to prepare the student to integrate security issues into an organizational strategic planning process.

**Prerequisite(s):** CIST 2100 or ISQA 8030. Not open to non-degree graduate students.

**ISQA 8600 FROM DATA TO DECISIONS (3 credits)**

This course focuses on inquiry-driven data preparation and exploratory analysis skills for audience-driven, decision-oriented data analysis. Students gain experience in data evaluation, cleaning, documentation, and exploration with basic descriptive statistics and visualizations.

**ISQA 8700 DATA MINING: THEORY AND PRACTICE (3 credits)**

This course provides students theoretical issues as well as practical methods for conducting data mining process, including the implementation of a warehouse. After covering the essential concepts, issues, techniques to build an effective data warehouse, this course emphasizes the various techniques of data mining, such as association, classification, clustering and prediction for on-line analyses within the framework of data warehouse architectures. This course also promotes students to conduct a real-life data analyzing project in Big Data Era.

**Prerequisite(s):** ISQA 8050 and ISQA 8310 and ISQA 8040, not open to non-degree graduate students.



**ISQA 8720 APPLIED STATISTICAL MACHINE LEARNING (3 credits)**

This course focuses on advanced techniques in the analysis and evaluation of data, using both supervised and unsupervised methods. It covers the main types of statistical learning models needed for complex data analytics problems, as well as aspects of model development and optimization. Topics include: Linear and Non-Linear Regression Models, Classification, Resampling Methods, Model Selection and Regularization, Decision Trees, Model Boosting and Bagging, Support Vector Machines, and Clustering methods. This is an applied, hands-on course that will use a state-of-the-art statistical tool to implement the discussed approaches in assignments and a course project and focuses on the understanding and application of the concepts.

**Prerequisite(s):** ISQA 8156 (B- grade or better) and the following topics: The equivalent of two classes of statistics and/or advanced mathematics and a minimum of one semester of applying R in courses and/or projects

**ISQA 8736 DECISION SUPPORT SYSTEMS (3 credits)**

This course examines a set of information systems which specifically support managerial decision makers: Decision Support Systems, Group Decision Support Systems, Executive Information Systems, Data Warehouses, Expert Systems, and Neural Networks. This course explores the development, implementation, and application of these systems, how these systems can be applied to current business problems, as well as how organizational issues impact the implementation and usage of these systems. (Cross-listed with ISQA 4730)

**Prerequisite(s):** ISQA 8030 or equivalent.

**ISQA 8750 STORYTELLING WITH DATA (3 credits)**

This course provides an in-depth study of how to build a compelling story using data for business professionals to make winning arguments, it provides an overview of a number of technologies and research disciplines that enabled the power of data visualization. Data visualization is critical to managing large volumes of data, and can be defined as the science (analytical) and art (design) of manipulating and presenting data for expression and cognitive recognition. Data visualization involves using data in a way that humans can clearly understand, supporting efforts by organization to gain competitive advantage by changing operations, decision-making, and strategic initiatives.

**Prerequisite(s):** CSCI 1620 or equivalent. Admission into the UNO graduate program, basic web development or work experience with comparable grounding in programing, scripting concepts & technologies and permission by the instructor is needed.

**ISQA 8810 INFORMATION TECHNOLOGY PROJECT FUNDAMENTALS (3 credits)**

The course will integrate concepts and techniques from management science, psychology, organizational behavior, & administration change to identify, understand & propose solutions to the problems of project management. The purpose of the course is to prepare the graduate for project participation and leadership.

**Prerequisite(s):** CIST 2100 and ISQA 8040. Not open to non-degree graduate students.

**ISQA 8820 PROJECT RISK MANAGEMENT (3 credits)**

This course will cover project risk management, i.e., the process of measuring or assessing risk in projects and then developing strategies to manage the risk. The topics covered will include: Risk Management Planning, Risk Identification, Quantitative Risk Analysis, Qualitative Risk Analysis, Risk Response Planning, and Risk Monitoring and Control will be covered in detail. Students will learn how to apply and use the tools and techniques needed to perform these project management tasks. A collection of readings on risk management from the empirical literature coupled with risk management standards from organizations such as IEEE and the Project Management Institute (PMI) will be used to provide the student with an excellent foundation in risk management and control.

**Prerequisite(s):** ISQA 8810 or permission of instructor.

**ISQA 8900 INDEPENDENT RESEARCH IN MANAGEMENT INFORMATION SYSTEMS (1-3 credits)**

The content of the course will vary. However, both the student and the faculty member must sign an Independent Research Agreement and file it with the Master of Science in Management Information Systems Graduate Program Committee before registration for the course. This agreement will detail the project, the schedule for its completion, the form of the output, the method of evaluation and other relevant information pertaining to the project.

**Prerequisite(s):** Permission of instructor, and at least 12 hours of course work toward a M.S. in MIS should be completed.

**ISQA 8910 INFORMATION SYSTEMS INTERNSHIP (1-3 credits)**

Information Systems Internship provides students with an opportunity for practical application and further development of knowledge and skills acquired in the MS MIS degree program. The internship gives students professional work experience and exposure to the challenges and opportunities faced by IT professionals in the workplace.

**Prerequisite(s):** Permission of the instructor required. Students must have completed a minimum of 18 credit hours towards the MS MIS program. Not open to non-degree graduate students.

**ISQA 8950 CAPSTONE MANAGEMENT INFORMATION SYSTEMS (3 credits)**

The course consists of a student executed Information Systems design project providing an in-depth practical experience. It typically covers system conceptualization, analysis, and design. It may also involve prototyping. The project will typically not include the actual implementation of the system. This course replaces the MS in MIS comprehensive exam requirement.

**Prerequisite(s):** Students must have 6 credit hours or fewer left in the program. Students must have completed all core classes. Not open to non-degree graduate students.

**ISQA 8990 THESIS (1-6 credits)**

This course is a research project designed and executed under supervision of a thesis supervisory committee. Student will develop skills, including the ability to design, conduct, analyze, and report results in writing (i.e., thesis) of an original, independent, scientific investigation. The student's thesis supervisory committee must approve the project plan.

**Prerequisite(s):** ISQA 8060 research methods or equivalent. Graduate major in MIS and approval of the thesis supervisory committee. Not open to non-degree graduate students.

**ISQA 9010 FOUNDATIONS OF INFORMATION SYSTEMS RESEARCH (3 credits)**

This course covers the following areas: (1) information systems as an academic discipline including classic readings in IS and its reference disciplines, (2) theory development and evaluation, (3) research methods applicability in IS.

**Prerequisite(s):** Doctoral student standing in the information systems areas or with the permission of the instructor; ISQA 8060 or equivalent. Not open to non-degree graduate students.

**ISQA 9020 TECHNICAL AND PROCESS ISSUES IN INFORMATION SYSTEMS RESEARCH (3 credits)**

This seminar is a survey course on the technical and process issues in information systems research. The course balances the acquisition of knowledge about the conduct of research in technical and process issues with the application of that knowledge to research on information systems. Major topics include: software engineering, programming, data base systems, decision support systems, data warehousing and mining systems, object-oriented systems, adaptive and expert systems, client-service systems, information filtering and multimedia systems, information agents, mobile computing, telecommunications, and electronic commerce.

**Prerequisite(s):** Doctoral student standing in the information systems area or with the permission of the instructor; ISQA 9010 is recommended. Not open to non-degree graduate students.



**ISQA 9030 BEHAVIORAL AND ORGANIZATIONAL ISSUES IN INFORMATION SYSTEMS (3 credits)**

This seminar is a survey course on behavioral and organizational issues in information systems research. The course balances the acquisition of knowledge about the conduct of research in behavioral and organizational issues with the application of that knowledge to research on information systems. The course is intended for doctoral students in Information Technology or related areas.

**Prerequisite(s):** Doctoral student standing in the information systems area or with the permission of the instructor; ISQA 9010 is recommended. Not open to non-degree graduate students.

**ISQA 9120 APPLIED EXPERIMENTAL DESIGN AND ANALYSIS (3 credits)**

Constructing and analyzing designs for experimental investigations; completely randomized, randomized complete block and Latin-square designs, split-plot designs, incomplete block designs, confounded factorial designs, nested designs, and treatment of missing data, comparison of designs. The course will use computer-assisted analysis and graphic techniques included in software such as Statistical Analysis Software (SAS) or Statistical Package for Social Sciences (SPSS) or R (a programming language that provides a wide variety of statistical and graphical techniques. Similar to the S language).

**Prerequisite(s):** ISQA 4150 or ISQA 8156 or consent of instructor. Not open to non-degree graduate students.

**ISQA 9130 APPLIED MULTIVARIATE ANALYSIS (3 credits)**

The use of multivariate analysis for solving business problems. Multivariate Analysis of Variance (MANOVA), factor, cluster, and discriminant analysis techniques in IT research. The course will use computer-assisted analysis and graphic techniques included in software such as Statistical Analysis Software (SAS) or Statistical Package for Social Sciences (SPSS) or R (A programming language that provides a wide variety of statistical and graphical techniques. Similar to the S language).

**Prerequisite(s):** ISQA 4150 or ISQA 8156 or consent of instructor. Not open to non-degree graduate students.

**ISQA 9150 RESEARCH IN INFORMATION TECHNOLOGY (3 credits)**

Research methods in Information Technology involves an overview of the research process specific to problems in IT. Students will learn about theories in IT relevant to their areas of research. They will identify key components of research problems in IT, understand different types of research processes, develop research questions, and design research projects. They will learn to construct research instruments that enable them to collect data. They will also learn about the different data collection and analysis tools and techniques. As part of this course, students will take the CITI training and achieve the research readiness they need to succeed in the PhD in IT program.

**Prerequisite(s):** Permission of the instructor. Not open to non-degree graduate students.

**ISQA 9900 ADVANCED RESEARCH IN INFORMATION SYSTEMS (3 credits)**

This course provides a format for exploration of advanced research areas that are of interest to doctoral students in the information systems and/or information technology area. The specific research area will vary from semester to semester, in keeping with research interests of faculty and students. Examples of areas include, but are not limited to, e-business technology, mobile commerce, intelligent agents e-enabled decision support, electronic collaboration, computer-mediated communications, human-computer interaction and information assurance.

**Prerequisite(s):** Admission to PhD program in Information Technology or permission of instructor

## Journalism and Media Communication (JMC)

### Journalism and Media Communication Graduate Courses

**JMC 8346 MEDIA REGULATION & FREEDOM (3 credits)**

Media and Internet regulation and free expression as defined and interpreted through First Amendment rights, prior restraint and obscenity case law, advertising and public relations, broadcast and cable TV regulation and deregulation policy, new telecommunication media, and privacy. (Cross-listed with JMC 4340).

**Prerequisite(s):** ENGL1160

**JMC 8816 DIGITAL LITERACIES FOR TECHNICAL COMMUNICATORS (3 credits)**

This course addresses emerging issues in digital literacies such as the rhetoric of technology, technological competency, technology and information ecologies, critical awareness of technology and human interactions, judicious application of technological knowledge, user-centered design, networking and online communities, ethics and technology, and culture and technology. (Cross-listed with JMC 4810).

**Prerequisite(s):** Graduate standing or permission of instructor

**JMC 8896 CAPSTONE COURSE IN TECHNICAL COMMUNICATION (3 credits)**

In this capstone course, students will extend foundational skills learned in previous technical communication courses. Students will demonstrate their competency in the technical documentation process in organizational environments, the issues important to the technical communication profession, and the practices of writing and creating complex technical documents for specific purpose and audience. (Cross-listed with JMC 4890).

**Prerequisite(s):** Graduate standing or permission of instructor.

## Kinesiology (KINS)

### Kinesiology Graduate Courses

**KINS 8040 ADVANCED STATISTICS (3 credits)**

This course will be a study in the statistical methods commonly used in descriptive and experimental research in physical education and exercise science. Application, particularly regarding the purpose, selection, and interpretation of statistical procedures will be emphasized. (Cross-listed with BMKI 9041).

**Prerequisite(s):** HPER 8030/HEKI 8030 or BMKI 9001/HPER 9031/HEKI 9031 or equivalent

**KINS 8056 EXERCISE AND SPORT NUTRITION (3 credits)**

This course presents an overview of the principles of nutrition and the relationship between nutrition and health, fitness, and sports performance. It is designed to provide students with the knowledge and skills necessary to assess nutritional status, improve overall health, and enhance sports performance. (Cross-listed with KINS 4050).

**KINS 8076 OPTIMIZING SPORTS PERFORMANCE (3 credits)**

The course is designed for coaches, athletes and physically active people, and allied health professionals. Course content emphasizes integration of several disciplines in sports medicine aimed at preparing one for optimal sports performance. Topics include peaking, detraining, overuse injury, efficiency, special foods and nutritional requirements, genetics and trainability, and designing of multi-year training schedules. (Cross-listed with KINS 4070).

**Prerequisite(s):** PE 4940/KINS 4940 with a grade of C- or better.

**KINS 8086 CLINICAL EXERCISE PHYSIOLOGY (3 credits)**

This course will offer students the knowledge, skills, and abilities to take the American College of Sports Medicine's health fitness instructor certification exam. This course will emphasize health risk assessment, exercise testing, and exercise prescription for healthy and clinical populations. (Cross-listed with KINS 4080).

**Prerequisite(s):** PE 4940/KINS 4940 with a grade of C- or better.

**KINS 8120 CURRENT TOPICS IN WEIGHT MANAGEMENT (3 credits)**

This course will focus on current issues related to weight management. Students will review and apply the guidelines for physical activity and nutrition, critique current perspectives about weight management in the scientific literature and popular media (e.g., books, podcasts, news articles), and develop a best practice for weight management using what they have learned.

**Prerequisite(s):** Not open to non-degree graduate students.

**KINS 8130 IMPLEMENTING PHYSICAL ACTIVITY IN DIVERSE POPULATIONS (3 credits)**

This course will focus on information necessary to assess, design, implement, and evaluate the need for and effectiveness of physical activity interventions in diverse populations, races, and ethnicities. These populations will include: African American, Native American, Hispanic, Asian American, Pacific Islanders, and Caucasian. Additionally, candidates will complete a health and physical activity service learning project in which they will work with diverse populations in the community. (Cross-listed with BMKI 9131).

**KINS 8140 PHYSICAL ACTIVITY ASSESSMENT AND HEALTH RELATED RESEARCH (3 credits)**

This course will cover the broad scope of research on physical activity and public health. Emphasis will be placed on the application of physical activity assessment techniques. (Cross-listed with BMKI 9141).

**KINS 8206 PLANNING WORKSITE WELLNESS PROGRAMS (3 credits)**

This course will focus on the planning of quality worksite wellness programs utilizing standards established by the Association for Worksite Health Promotion. Steps in the planning process such as needs assessment, strategic planning, implementation, and evaluation will be taught with special application to the worksite. Critical issues involving worksite programs also will be addressed such as upper management support, program standards, corporate culture, competencies for worksite health promotion professionals, economic benefits, behavioral theories, legal issues, and the integration of worksite wellness programs and health care. (Cross-listed with KINS 4200).

**Prerequisite(s):** Junior standing.

**KINS 8240 SPORT IN AMERICAN CULTURE (3 credits)**

Sport in American culture is a study of sport from a theoretical perspective. The relationship between sport and sub-cultures (to include disadvantaged American cultures), economics, global influences, and technology will be analyzed.

**KINS 8280 CURRICULUM IN PHYSICAL EDUCATION (3 credits)**

A study of the foundations for curriculum development. Special consideration is given to curriculum change, curriculum patterns and programs in physical education which will meet a culturally diverse, global society.

**KINS 8316 LOWER EXTREMITY EVALUATION (3 credits)**

This course is designed to provide the candidate with knowledge and skill in the area of advanced athletic injury assessment. The candidate will be exposed to current methodology in the field of orthopedic assessment, pathophysiology of orthopedic injury, and application of current research in injury evaluation. The candidate will receive practical experience in the management of athletic injuries. This course will focus on the low back, hip, and lower extremities. (Cross-listed with KINS 4310).

**Prerequisite(s):** PE 8326/KINS 8326 and PE 8710/KINS 8710. Not open to non-degree graduate students.

**KINS 8320 EVIDENCE-BASED PRACTICE IN SPORTS MEDICINE (3 credits)**

This course is designed to provide the student with knowledge and skill in the area of developing clinical research questions, assessing research study designs, understanding statistical and epidemiological analyses, interpreting peer-reviewed manuscripts, the incorporation of research into clinical practice, understanding the role of an athletic trainer within the public health system, international classification of function, health literacy, and social determinants of health. Students in this course will learn to understand the role of evidence based /practice in clinical decision making.

**KINS 8326 UPPER EXTREMITY EVALUATION (3 credits)**

This course is designed to provide the candidate with knowledge and skill in the area of advanced athletic injury assessment. The candidate will be exposed to current methodology in the field of orthopedic assessment, pathophysiology of orthopedic injury, and application of current research in injury evaluation. The candidate will receive practical experience in the management of athletic injuries. This course will focus on the head, neck, thorax, and upper extremities. (Cross-listed with KINS 4320).

**Prerequisite(s):** PE 8316/KINS 8316, PE 8336/KINS 8336 and PE 8720/KINS 8720. Not open to non-degree graduate students.

**KINS 8336 ATHLETIC THERAPEUTIC MODALITIES (3 credits)**

This course will cover the theory, physiology and application of physical agents used in the treatment of injuries and illness. Students will gain practical experience utilizing selected agents to treat injuries and illnesses. (Cross-listed with KINS 4330).

**Prerequisite(s):** PE 8326/KINS 8326 and PE 8710/KINS 8710. Not open to non-degree graduate students.

**KINS 8356 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING (3 credits)**

Administration of athletic training programs including the use of records and forms, budgets, facility design and legal concerns. (Cross-listed with KINS 4350).

**Prerequisite(s):** PE 4340/KINS 4340, PE 4320/KINS 4320

**KINS 8370 ANALYZING PHYSICAL EDUCATION TEACHING & SPORT INSTRUCTION (3 credits)**

This course will examine the teaching and coaching in physical education and sport. It will identify assessment techniques utilized in teaching and coaching behavior research as well as typical prescriptions in an effort to improve one's performance.

**Prerequisite(s):** Graduate standing

**KINS 8506 BEHAVIORAL ASPECTS OF COACHING (3 credits)**

This course is designed to provide the physical education teacher and athletic coach with an overview of the behavioral aspects of coaching athletes. The course will provide information which will enable the coach to enhance as well as orchestrate performance of elementary, junior high, senior high, college, and post-college athletes. (Cross-listed with KINS 4500).

**KINS 8700 PSYCHOLOGY OF PHYSICAL ACTIVITY (3 credits)**

The central purpose of this course is to examine the psychological antecedents and consequences of exercise and physical activity behaviors. The course will focus on traditional theories/principles of psychology as they relate to various physical activity settings. (Cross-listed with BMKI 9701).

**KINS 8710 CLINICAL PRACTICUM IN ATHLETIC TRAINING I (1 credit)**

Clinical Practicum in Athletic Training I is the first course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills.

**Prerequisite(s):** Admission to the MA in Athletic Training program, instructor permission, & compliance with published Athletic Training Program Technical Standards for Admission. Co-requisite: PE 8326/KINS 8326. Not open to non-degree graduate students.

**KINS 8720 CLINICAL PRACTICUM IN ATHLETIC TRAINING II (1 credit)**

Clinical Practicum in Athletic Training II is the second course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills.

**Prerequisite(s):** Admitted to MA in Athletic Training, PE 8710/KINS 8710, instructor permission, & compliance w/published Athletic Training Program Technical Standards for Admission. Co-reqs: PE 8316/KINS 8316 & PE 8336/KINS 8336. Not open to non-degree graduate students.

**KINS 8730 CLINICAL PRACTICUM IN ATHLETIC TRAINING III (1 credit)**

Clinical Practicum in Athletic Training III is the third course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills.

**Prerequisite(s):** Admitted to MA in Athletic Training, PE 8720/KINS 8720, instructor permission, & compliance w/published Athletic Training Program Technical Standards for Admission. Co-reqs: PE 8346/KINS 8346 & PE 8356/KINS 8356. Not open to non-degree graduate students.

**KINS 8740 CLINICAL PRACTICUM IN ATHLETIC TRAINING IV (1 credit)**

Clinical Practicum in Athletic Training IV is the fourth course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a preceptor in order to improve clinical and decision-making skills.

**Prerequisite(s):** Admission to the MA in Athletic Training, PE 8730/KINS 8730 instructor permission, and compliance with published Athletic Training Program Technical Standards for Admission. Co-req: PE 8966/KINS 8966. Not open to non-degree graduate students.

**KINS 8800 RISK MANAGEMENT FOR HEALTH FITNESS PROFESSIONALS (3 credits)**

A study of risk management for health fitness professionals with a focus on minimizing liability exposures for health fitness facilities and their personnel. Principles of risk management such as the assessment of liability exposures, the development and implementation of risk management strategies, and the evaluation of these strategies will be explored as well as the law as it pertains to health fitness liability. Candidates will develop the knowledge and skill to manage high quality health fitness programs in various settings.

**Prerequisite(s):** PE 4010/KINS 4010 or PE 8016/KINS 8016

**KINS 8856 CARDIOVASCULAR DISEASE PREVENTION AND REHABILITATION (3 credits)**

The purpose of this course is to provide candidates with an introduction to the theories and practices involved in all phases of cardiac rehabilitation. (Cross-listed with KINS 4850).

**Prerequisite(s):** PE 2500/BMCH 2500 with a grade of C- or better or BIOL 2840 with a grade of C- or better, PE 4940/KINS 4940 with a grade of C- or better

**KINS 8865 SCIENTIFIC ASPECTS OF STRENGTH DEVELOPMENT (3 credits)**

This course is designed to explore the nature of muscular strength development, to investigate the physiological basis of physical conditioning, and to provide teachers, coaches and trainers with practical experience in designing specialized conditioning programs for a variety of sports and cultures.

**KINS 8900 MANAGEMENT & LEADERSHIP SKILLS FOR FITNESS WELLNESS MANAGERS (3 credits)**

This course is a study of management and leadership skills necessary for the successful management of fitness and wellness facilities and programs. Candidates will develop knowledge and practical skills in the areas of personnel and financial management, marketing, and operating policies procedures as well as develop a personal leadership philosophy based on sound principles of leaders.

**Prerequisite(s):** PE 4010/KINS 4010 or PE 8016/KINS 8016 or ACSM Health Fitness Certification.

**KINS 8910 INTERNSHIP IN EXERCISE SCIENCE (3 credits)**

This course is an off-campus, supervised, educational work experience of at least 150 clock hours at an approved worksite offering programs and experiences in fitness development or health promotion. Candidates must have current CPR certification.

**Prerequisite(s):** 2.5 GPA and permission of Academic Advisor

**KINS 8950 ADVANCED EXERCISE PHYSIOLOGY (3 credits)**

A detailed analysis of selected topics including acute and chronic effects of exercise on metabolic, pulmonary, and cardiovascular function; and sports nutrition. Current research findings and methodology will be emphasized. (Cross-listed with BMKI 9951).

**Prerequisite(s):** PE 4940/KINS 4940 or equivalent

**KINS 8970 TOPICS IN SPORTS MEDICINE (3 credits)**

This course is designed to help students synthesize and apply their knowledge of athletic training and sports medicine to current topics, unique populations, and other areas of exercise, sports medicine and health care. (Cross-listed with BMKI 9971).

## Latino/Latin American Studies (LLS)

### Latino/Latin American Studies Graduate Courses

**LLS 8145 LATINO/-A POLITICS (3 credits)**

This course introduces students to the dynamism and growth of the role of Latinos, as a group of political actors, in the United States. This course provides students with an exposure to and understanding of various concepts and dimensions of this phenomenon, including historical and contemporary Latino political thought and the efforts to increase political empowerment (representation and participation) and influence through grassroots, social, and political movements. (Cross-listed with PSCI 8145, LLS 3140, PSCI 3140)

**LLS 8246 SOCIAL TRANSFORMATIONS IN LATIN AMERICA (3 credits)**

The course reviews the main social, economic, and political forces that have shaped Latin American societies, and the sociological theories used to understand Latin American development and underdevelopment. Race, ethnicity, gender and class in Latin America, as well as the region's position in the global economy are examined. (Cross-listed with SOC 8246, SOC 4240, LLS 4240).

**Prerequisite(s):** Graduate standing

**LLS 8256 RESEARCHING LATIN AMERICAN MIGRATIONS (3 credits)**

In this course we will use an interdisciplinary lens to study the changes and continuities of migration in the Americas. The course starts with an overview of immigration to the Americas during the first era of mass migration (1850-1920) to explore the relevance of European migrations for national and identity constructions in the Southern Cone of America. Students then will be introduced to the impacts of social and political change on emigration flows, both regionally and beyond the region. They will also explore migration related policies at the national and regional level. We will also study the changes and continuities in the migration system of the Americas. Lastly, we will analyze the new North-South migration, as well as immigration to Latin America from Asia (recent and historical), Europe, and Africa. (Cross-listed with SOC 8256, SOC 4250, LLS 4250).

**Prerequisite(s):** Graduate standing

**LLS 8286 INTERNATIONAL RELATIONS OF LATIN AMERICA (3 credits)**

Analysis of the role of Latin American states in the international political arena. Emphasis upon developing, applying and testing an explanatory theory of international politics through the study of the inter-American system: the regional, institutional and ideological environment, power relations, policies and contemporary problems. (This course fulfills the department's international politics requirement). (Cross-listed with LLS 4280, PSCI 4280, PSCI 8286)

**LLS 8436 INTERNATIONAL MIGRATION, DEVELOPMENT AND CITIZENSHIP (3 credits)**

The course examines the forces driving contemporary global migration, the impact of migration in both sending and receiving nations' development, as well as the politics and practices of migration policy development. The course also discusses the current debates on immigrant incorporation and citizenship in the receiving countries. (Cross-listed with LLS 4430, CACT 8436).

**Prerequisite(s):** Graduate standing

**LLS 8516 ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES (3 credits)**

The course will examine representations of illness, disease, and affections in literary and cultural texts from the Latin American Southern Cone, focusing in Argentina, Uruguay, and Chile. It will explore notions of health and disease, as embedded in literary and cultural texts from the late 19th to the 21st centuries. We will examine the ways in which physical ailments, mental health symptoms, and other conditions or disorders have been conceptualized and portrayed, co-relating the individual "disruptions" caused by unwellness with a host of social and cultural factors. The course will also explore current treatments and therapies for the illnesses discussed in the texts, taking into account the integration of western and alternative medicine and practices. (Cross-listed with SPAN 8516, SPAN 4510, LLS 4510).

**Prerequisite(s):** Graduate student standing

**LLS 8656 SLAVERY AND RACE RELATIONS IN THE AMERICAS (3 credits)**

Slavery and Race Relations in the Americas examines the historical relationship between the trans-Atlantic slave trade and American race relations, connecting the enslavement of Africans in the Americas to race relations in the Caribbean, Latin America, and the United States. (Cross-listed with BLST 8656, BLST 4650, HIST 8076, HIST 4070, LLS 4650).

**Prerequisite(s):** Graduate standing

**LLS 8685 GOVERNMENT AND POLITICS OF LATIN AMERICA (3 credits)**

This course introduces students to the political institutions, processes, and public policies of the states of Latin America. (Cross-listed with LLS 3680, PSCI 3680, PSCI 8685)

**LLS 8786 URBAN LATIN AMERICA (3 credits)**

This course examines the experience of Latin American urbanization, attending to its contributions to urban sociology, social movements, and policymaking. Topics include urban transitions (e.g. pre-Hispanic to colonial, post-colonial to industrial, and the neoliberal turn), socio-spatial configurations (e.g. plazas, squatter settlements), urban marginality debates, urban politics, and planning as well as governance innovations (e.g. bus rapid transit systems, participatory budgeting). Students will compare city case studies across the region and to urban life in the United States. (Cross-listed with SOC 4780, SOC 8786, LLS 4780, CACT 8186).

**Prerequisite(s):** Graduate standing

**LLS 8956 LATIN AMERICAN STUDY ABROAD (3 credits)**

This course is designed as an international study abroad course that will introduce undergraduate and graduate students to the dynamism of socio-cultural, economic, and political changes taking place across Latin America. Note: International travel and special fees required. (Cross-listed with LLS 4950, INST 4950)

## Management (MGMT)

### Management Graduate Courses

**MGMT 8066 HEALTHCARE ANALYTICS FOR BUSINESS (3 credits)**

This course will focus on the mixing of analytics and technology to develop key performance indicators that integrate and evaluate clinical, administrative, and financial performance. Concepts in this course explore the intersection of information management, performance metrics, data visualization, and result communication spanning across the healthcare ecosystem. Topics covering health outcome analysis, financial performance, developing analytic strategies, data quality and governance, and the four stages of actionable intelligence are all used to educate the advantages of leveraging analytics. (Cross-listed with BSAD 8066, HLSC 8066, MGMT 4060, SCMT 8066, SCMT 4060).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**MGMT 8096 MANAGING COLLABORATIVE ENGAGEMENT (3 credits)**

This course will provide students with the opportunity to develop knowledge and strategies for leading teams, enhancing collaboration, building consensus, problem solving in teams, facilitating group processes, and designing collaborative workspaces. (Cross-listed with ACMP 4090, BSAD 8096, MGMT 4090, SCMT 4090).

**Prerequisite(s):** Admission to a graduate program at UNO or the STRATCOM Leader Fellow Program. Not open to non-degree graduate students.

**MGMT 8116 STAFFING THE ORGANIZATION (3 credits)**

This course is a comprehensive review of issues and techniques related to the acquisition of high-quality human resources for optimal organizational effectiveness. The course is designed to enable future managers and human resource professionals to utilize effective strategies for recruiting, selecting, placing, and integrating new employees into the organization's workforce. (Cross-listed with MGMT 4110).

**Prerequisite(s):** BSAD 8136 or permission of instructor.

**MGMT 8136 HUMAN RESOURCE MANAGEMENT (3 credits)**

This course is a comprehensive review of the field of human resource management and its relevance to employees, managers, and organization stakeholders for goal achievement. The design of this course is structured to educate future managers and leaders on the importance of utilizing effective HR methods that comply with federal laws and the critical role of HR professionals in achieving the organization's positive workplace culture, competitive advantage, and overall success. (Cross-listed with BSAD 8136, MGMT 4030, HRM 4030, HRM 8136).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. BSAD 8250 (Organizational Behavior) is recommended (but not required) prior to enrollment.



**MGMT 8146 TOTAL REWARDS (3 credits)**

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee compensation and benefits programs. Students will gain and utilize effective strategies for managing the single largest controllable expense for organizations; employee pay and benefits. The design of this course is most beneficial for students pursuing future careers in management and human resource professions. (Cross-listed with BSAD 8146, MGMT 4010, HRM 4010, HRM 8146).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**MGMT 8156 TALENT DEVELOPMENT (3 credits)**

This course is a comprehensive review of the theory and practice of developing and implementing cost-effective employee training and development programs to optimize human capital effectiveness in modern organizations. The course is designed to enable future managers and human resource professionals to utilize effective strategies for assessing employee training needs and developing appropriate solutions to maximize talent utilization. (Cross-listed with BSAD 8156, MGMT 4120, HRM 4120, HRM 8156).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**MGMT 8166 STAFFING THE ORGANIZATION (3 credits)**

This course is a comprehensive review of issues and techniques involved in the acquisition and management of a high quality and diverse workforce for optimal organizational effectiveness. Students pursuing future manager and human resource professions will benefit from practice utilizing effective strategies for recruiting, selecting, placing, and integrating new employees into an organization's workforce. (Cross-listed with BSAD 8166, MGMT 4110, HRM 4110, HRM 8166).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**MGMT 8236 GLOBAL BUSINESS MANAGEMENT (3 credits)**

The central objective of this course is to explore the unique opportunities and challenges that confront international managers as they navigate the complex and ever-changing global economic, political, legal, technological, and cultural environment. This course will particularly focus on people, values, and culture, better equipping students to both undertake an international career as well as effectively lead organizations with a culturally diverse workforce in any environment. (Cross-listed with BSAD 8236, MGMT 4150).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**MGMT 8300 ORGANIZATION THEORY & DESIGN (3 credits)**

This course is designed to increase students' understanding and knowledge of how organizations are designed and structured in order to create value and competitive advantage, and how organizations can operate in an effective and efficient manner in an ever-changing environment. The course will address topics such as: organizational effectiveness, organizational structure, organizational design, organizational culture, organizational technology, the external environment, organizational change, and the organizational life cycle. The ultimate goal is for students to be able to understand how organizations should be structured as a result of both external and internal factors. (Cross-listed with BSAD 8300).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**MGMT 8336 PROJECT MANAGEMENT (3 credits)**

This course focuses on the systemic exploration of planning and executing complex projects to create organizational success. Using a comprehensive understanding of principles, methodologies, and tools within project management, students will learn how to initiate critical processes, plan objectives and constraints, execute management and leadership, monitor budgets and development, and close outcomes of complex projects. Skills obtained from this course enhance individuals' ability to recognize, identify, and prioritize organizations' culture and structure to lead projects across various industries efficiently. (Cross-listed with BSAD 8336, HLSC 8336, MGMT 4330, SCMT 8336, SCMT 4330)

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**MGMT 8436 LEARNING TO LEAD (3 credits)**

The course provides students with the opportunity to learn historical and modern theories of effective leadership, gain insight into their own leadership styles and aspirations, and learn how to apply leadership theories to real-world leadership cases. Along with empowering individuals' leadership capabilities, this course explores the factors that can influence leader decision-making. (Cross-listed with BSAD 8436, MGMT 4230).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**MGMT 8456 MANAGERIAL NEGOTIATION STRATEGIES (3 credits)**

This course introduces students to the theory and practice of negotiation across various organizational settings. The ability to successfully negotiate an outcome is an important aspect of management and leadership. Negotiation can be used to determine multiparty relationships, manage conflict resolution, and improve organizational outcomes. Using a combination of conceptual frameworks, roleplaying exercises, and debriefing opportunities, the design of this course is structured to help students understand the power and influence negotiation has over the successful outcomes of managers, leaders, and organizations. (Cross-listed with BSAD 8456, HLSC 8456, MGMT 4450, SCMT 4450, SCMT 8456).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**MGMT 8696 EMERGING TECHNOLOGY AND INNOVATION (3 credits)**

This course equips entrepreneurially-minded students with a more complete range and vision of the viability of various startup opportunities (with a specific focus on innovative technologies and innovative business models). Students will become familiarized with the new and emerging technologies and innovations that define modern industries and product categories, as well as the various shifts in the way cutting-edge business gets done, regardless of industry. (Cross-listed with BSAD 8696, ENTR 4690, ENTR 8696, MGMT 4690).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**MGMT 8726 INNOVATION VENTURES (3 credits)**

This team-based course provides students with the opportunity to practice the basic tools of business discovery and validation. Concepts and techniques in innovation, entrepreneurship, and strategy will be used to aid students in the venture creation process. Important considerations impacting the viability of the venture post formation will also be explored. Practical real-world experimentation is the central component of the course and will help students to conceive, develop, and launch their own innovative ventures. (Cross-listed with BSAD 8726, ACMP 4720, HCC 8256, ENTR 4720, ENTR 8726, MGMT 4720, MKT 4720, MKT 8726).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.



# Master of Fine Arts Writing (MFAW)

## Master of Fine Arts Writing Graduate Courses

### MFAW 8700 RESIDENCY SESSION (3 credits)

A ten-day colloquium presenting lectures, classes, workshops, readings and individual conferences with seminar faculty. Taken 4 times, the Residency Session ends one seminar session and begins the next. The session affords students intensive contact with faculty and peers before returning to their writing projects.

**Prerequisite(s):** Admission to MFA in Writing program. Permission of the Program Director. Not open to non-degree graduate students.

### MFAW 8710 GRADUATING RESIDENCY SESSION (0 credits)

The Graduation Residency Session is the final residency for MFA students who have successfully completed their seminars and creative thesis. In the ten days of this residency, students will give a graduating lecture, "mentor" new students in their first residency, and give a reading from their thesis. A graduating ceremony will cap their activities during this session.

### MFAW 8720 ENRICHMENT RESIDENCY SESSION (2 credits)

An eight-day creative writing symposium-style course presenting lectures, workshops, readings and individual conferences with faculty. The Enrichment Residency affords advanced writing students additional intensive contact with published and apprentice writers to reinforce and enrich their life-long commitment to the art of writing and to the continuing development of their craft.

**Prerequisite(s):** MFA Program Director's permission. Must have completed MFA/PhD with writing emphasis. Writers with MA in English and emphasis in writing, or writers with an extensive background in writing may also be considered. Not open to non-degree graduate students.

### MFAW 8820 POETRY SEMINAR (6-12 credits)

An individualized course in poetry writing. Taken 4 times, the required seminar offers practical instruction in writing and criticism. Using distance technology, student and instructor work through independent projects designed to sharpen the student's writing skills. Each student will compose both original poetry and critical analyses of poetry by other writers preparatory to submitting an original book-length manuscript of publishable quality by the final semester.

**Prerequisite(s):** Acceptance into the MFA in Writing Program and permission of the MFA Program Coordinator. Not open to non-degree graduate students.

### MFAW 8830 FICTION SEMINAR (6-12 credits)

An individualized course in fiction writing. Taken four times, the seminar offers practical instruction in fiction writing and criticism. Using distance technology, student and instructor work through individualized writing projects designed to sharpen the student's writing skills to a professional edge. Students will compose both original fiction and critical analyses of fiction preparatory to submitting an original book-length manuscript of publishable quality by their final semester's work.

**Prerequisite(s):** Permission of Program Director. Not open to non-degree graduate students.

### MFAW 8840 NONFICTION SEMINAR (6-12 credits)

An individualized course in nonfiction writing. Taken 4 times, the seminar offers practical instruction in writing and criticism. Students will compose both original nonfiction and critical analyses of nonfiction.

**Prerequisite(s):** Permission of Program Director. Not open to non-degree graduate students.

### MFAW 8850 PLAYWRITING AND SCREENWRITING SEMINAR (6-12 credits)

An individualized seminar in playwriting or screenwriting. Taken 4 times, the seminar offers practical instruction in playwriting/screenwriting and criticism. Using distance technologies, student and instructor work through independent projects designed to sharpen the student's writing. Each student will compose both original scripts and critical analyses of scripts by other playwrights or screenwriters preparatory to submitting at minimum a full-length script, a one-act script, and a ten-minute script by the final semester.

**Prerequisite(s):** Acceptance into the MFA in Writing Program and permission of the MFA Program Coordinator. Not open to non-degree graduate students.

### MFAW 8870 ENRICHMENT SEMINAR IN WRITING (6 credits)

An advanced writing semester for those who want assistance launching a new writing project or have a degree in one genre and want to pursue study of another, such as fiction, creative nonfiction, poetry, young adult, playwriting, or screenwriting.

**Prerequisite(s):** Corequisite: MFAW 8720. Permission from Program Coordinator required.

## Mathematics (MATH)

## Mathematics Graduate Courses

### MATH 8016 INTRODUCTION TO THE THEORY OF RECURSIVE FUNCTIONS (3 credits)

This is a proof-oriented course presenting the foundations of Recursion Theory. We present the definition and properties of the class of primitive recursive functions, study the formal models of computation, and investigate partially computable functions, universal programs. We prove Rice's Theorem, the Recursion Theorem, develop the arithmetic hierarchy, demonstrate Post's theorem. Introduction to the formal theories of computability and complexity is also given. (Cross-listed with CSCI 4010, CSCI 8016, MATH 4010).

**Prerequisite(s):** MATH 2230 or MATH 2030 with a C- or better or CSCI 3660 with a C- or better or instructor's permission.

### MATH 8036 MODERN ALGEBRA (3 credits)

Algebra is the study of mathematical manipulations that preserve something (like equality - when solving equations). The areas in which Algebra finds application are quite diverse, from Ancient Greek Geometry through to Modern Information Protection and Security (error correcting codes, data compression, and cryptography). This course begins with topics that should be familiar (such as ruler-and-compass constructions, and modular arithmetic) and builds upon this foundation through polynomial rings up to finite fields and basic group theory. (Cross-listed with MATH 4030).

**Prerequisite(s):** MATH 2230 with a C- or better or MATH 2030 with a C- or better

### MATH 8050 ALGORITHMIC GRAPH THEORY (3 credits)

The overall of the goal is to introduce advanced concepts in graph theory, graph modeling, and graph algorithms and how they can be used to solve a wide range of problems in various application domains. The course introduces students to several applied path algorithms, clustering and partitioning techniques, network flow algorithms, and weighted matching algorithms. Other advanced concepts associated with complex networks include node centralities in graphs and community detection approaches. The course will also introduce students to key classes of graphs with a particular focus on the main classes of Perfect Graphs and their applications in scheduling, chip design, mobile computing, and Biomedical Informatics. (Cross-listed with CSCI 8050).

**Prerequisite(s):** CSCI 3320 or CSCI 8325 and MATH 4150 or MATH 8156 or permission of instructor. Not open to non-degree graduate students.

**MATH 8056 LINEAR ALGEBRA (3 credits)**

Linear algebra is extensively utilized in the mathematical modeling of many natural phenomena. Many scientific and engineering disciplines, such as data science, chemical engineering and biology, make extensive use of the theory and techniques commonly present in basic to advanced linear algebra courses. The goal of this course is to help students to grasp a solid theoretical understanding of vectors, vector spaces, inner product spaces, linear transformations, eigenvalues, canonical forms, complex vectors, matrices, and orthogonality. By going through the materials in a mathematically rigorous way, students will develop deeper and more accurate intuitions of the basic concepts in linear algebra. Consequently, the applications of linear algebra will become much more transparent. (Cross-listed with MATH 4050).

**Prerequisite(s):** MATH 2050 with a grade of C- or better; MATH 2030 or MATH 2230 or equivalent with a grade of C- or better; or permission

**MATH 8060 ALGORITHMIC COMBINATORICS (3 credits)**

This course includes classical combinatorial analysis graph theory, trees, network flow, matching theory, external problems, and block designs. (Cross-listed with CSCI 8060).

**Prerequisite(s):** MATH 3100, CSCI 3100, MATH 8105 or CSCI 8105 or instructor's permission.

**MATH 8080 DESIGN AND ANALYSIS OF ALGORITHMS (3 credits)**

The course provides students an understanding of advanced topics in algorithms. Main topics include: growth of functions, asymptotic notation, recurrences, divide and conquer, dynamic programming, greedy algorithms, graph algorithms, and the theory of NP-Completeness. (Cross-listed with CSCI 8080).

**Prerequisite(s):** CSCI 3320 or CSCI 8325 or equivalent. Not open to non-degree graduate students.

**MATH 8105 APPLIED COMBINATORICS (3 credits)**

Basic counting methods, generating functions, recurrence relations, principle of inclusion-exclusion. Polya's formula. Elements of graph theory, trees and searching network algorithms. (Cross-listed with CSCI 3100, CSCI 8105, MATH 3100).

**MATH 8116 ABSTRACT ALGEBRA I (3 credits)**

An introduction to group theory. Various classes of group are studied: symmetric groups, abelian, cyclic, and permutation groups. Basic tools are developed and used: subgroups, normal subgroups, cosets, the Lagrange theorem, group homomorphisms, quotient groups, direct products, and group actions on a set. The course culminates with the Sylow theorems in finite group theory. The theory is illustrated with examples from geometry, linear algebra, number theory, crystallography, and combinatorics. (Cross-listed with MATH 4110).

**Prerequisite(s):** MATH 4050/MATH 8056 with a C- or better or MATH 4560/MATH 8566 with a C- or better or permission of instructor

**MATH 8126 ABSTRACT ALGEBRA II (3 credits)**

An introduction to ring and field theory. Various classes of commutative rings are considered including polynomial rings, and the Gaussian integers. Examples of fields include finite fields and various extensions of the rational numbers. Concepts such as that of an ideal, integral domain, characteristic and extension field are studied. The course culminates with an introduction to Galois theory. Applications include the resolution of two classical problems: the impossibility of angle-trisection and the general insolubility of polynomial equations of degree 5 or higher. (Cross-listed with MATH 4120)

**Prerequisite(s):** MATH 4110/MATH 8116 with a C- or better or permission of instructor

**MATH 8156 GRAPH THEORY & APPLICATIONS (3 credits)**

Introduction to graph theory. Representations of graphs and graph isomorphism. Trees as a special case of graphs. Connectivity, covering, matching and coloring in graphs. Directed graphs and planar graphs. Applications of graph theory in several fields such as networks, social sciences, VLSI, chemistry and parallel processing. (Cross-listed with CSCI 4150, CSCI 8156, MATH 4150).

**Prerequisite(s):** MATH 2030 or permission of instructor.

**MATH 8206 NUMERICAL ANALYSIS (3 credits)**

This course involves solving nonlinear algebraic equations and systems of equations, interpolation and polynomial approximation, numerical differentiation and integration, numerical solutions to ordinary differential equations, analysis of algorithms and errors, and computational efficiency. (Cross-listed with CSCI 4200, CSCI 8206, MATH 4200).

**Prerequisite(s):** MATH 1970 and MATH 2050 and MATH 2350 with a C- or better or permission of instructor.

**MATH 8235 INTRODUCTION TO ANALYSIS (3 credits)**

This course provides a theoretical foundation for the concepts of elementary calculus. Topics include real number system, topology of the real line, limits, functions of one variable, continuity, differentiation. (Cross-listed with MATH 3230).

**Prerequisite(s):** MATH 1960 and MATH 2230 each with a grade of C- or better.

**MATH 8236 MATHEMATICAL ANALYSIS I (3 credits)**

Provides a theoretical foundation for the concepts of classical calculus.

Topics include ordered fields, the real and complex number system, basic metric space topology, numerical sequences and series, limits and continuity in metric spaces, monotonic functions, differentiation, (functions of several variables included). (Cross-listed with MATH 4230).

**Prerequisite(s):** MATH 3230/MATH 8235 or equivalent with a grade of C- or better.

**MATH 8246 MATHEMATICAL ANALYSIS II (3 credits)**

Provides a theoretical foundation for the concepts of classical Calculus (vector calculus included). Topics include sequences and series of functions, uniform convergence, power series, Fourier series, multivariable real differential and integral calculus, the Implicit Function Theorem, integration of different forms, and the important formulas, connecting those integrals, due to: Green, Gauss, Riemann, and Ostrogradski. (Cross-listed with MATH 4240).

**Prerequisite(s):** MATH 4230/MATH 8236 with a grade of C- or better.

**MATH 8250 PARTIAL DIFFERENTIAL EQUATIONS (3 credits)**

Partial differential equations (PDEs) are fundamental in the application of mathematics to science and engineering. Topics to be covered will include: Linear and nonlinear first-order equations, classification of second-order linear equations, elliptic, hyperbolic and parabolic equations and boundary value problems, and Green's functions.

**Prerequisite(s):** MATH 1970, MATH 2350, or instructor's permission. MATH 4330/MATH 8336 is recommended, but not required.

**MATH 8255 INTRODUCTION TO NUMERICAL METHODS (3 credits)**

This course emphasizes the implementation of several numerical methods to problems that arise in science and engineering. It involves the application of the computer to solve mathematical problems using the following computational techniques: Taylor Series approximation, numerical differentiation, root-finding methods, interpolation, extrapolation, curve fitting, solution methods for matrix equations, numerical differentiation, numerical integration, and the solution of differential equations. (Cross-listed with MATH 3250).

**Prerequisite(s):** MATH 1960 and MATH 2050 with a C or better, or permission of instructor.

**MATH 8276 COMPLEX ANALYSIS (3 credits)**

This course is an introduction to the theory of functions of a complex variable, a fundamental area of mathematics with multiple applications to science and engineering. Topics include the field of complex numbers, complex differentiation, the complex contour integral and Cauchy's integral formula, Taylor expansions and analytic functions, conformal mapping and Riemann's conformal equivalence theorem, residue theory and Laurent series, harmonic functions, and applications. (Cross-listed with MATH 4270).

**Prerequisite(s):** MATH 3230/MATH 8235 with a grade of C- or better or permission of the instructor.

**MATH 8306 DETERMINISTIC OPERATIONS RESEARCH MODELS (3 credits)**

This is a survey course of deterministic operations research models and algorithms. Topics include linear programming, network programming, and integer programming. (Cross-listed with CSCI 4300, CSCI 8306, MATH 4300).

**Prerequisite(s):** MATH 2050 with a C- or better or permission of instructor.

**MATH 8316 PROBABILISTIC OPERATIONS RESEARCH MODELS (3 credits)**

This is a survey course of probabilistic operations, research models and algorithms. Topics include Markov chains, queueing theory, inventory models, forecasting, and simulation. (Cross-listed with CSCI 4310, CSCI 8316, MATH 4310).

**Prerequisite(s):** MATH 2050 and either MATH 4740 or MATH 8746 or STAT 3800 or STAT 8805 all with a C- or better or permission of instructor.

**MATH 8326 COMPUTATIONAL OPERATIONS RESEARCH (3 credits)**

Survey of computational methods used in the solution of operations research problems. Some topics may include scripting to guide optimization software, constraint programming, heuristics and metaheuristics for optimization, basic machine learning algorithms, and simulation. (Cross-listed with MATH 4320, CSCI 4320, CSCI 8326).

**Prerequisite(s):** MATH 3200 or CSCI 1620, and MATH 4300 each with a grade of C- or better or permission of instructor.

**MATH 8336 INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS (3 credits)**

This course introduces the basic methods of PDEs guided by applications in physics and engineering. The main topics to be covered include The Linear First order PDEs, Transport equations, Characteristics, Classification of PDEs, Separation of variables, Heat conduction, vibrating membranes, boundary value problems, Maximum principle, Sturm-Liouville problems, Fourier series, Fourier integrals, Harmonic functions, Legendre polynomials, Distributions, Green's functions. (Cross-listed with MATH 4330).

**Prerequisite(s):** MATH 1970 with a C- or better and MATH 2350 with a C- or better, or permission of instructor; MATH 2050 recommended, not required.

**MATH 8356 ORDINARY DIFFERENTIAL EQUATIONS (3 credits)**

This course covers the theory of initial-, boundary-, and eigenvalue problems, existence theorems, real and complex linear systems of differential equations, and stability theory. There will be a strong emphasis on methods for finding solutions of initial and boundary value problems and analyzing properties of these solutions for various ordinary differential equations. (Cross-listed with MATH 4350).

**Prerequisite(s):** MATH 1970 with a C- or better, MATH 2050 with a C- or better, and MATH 2350 with a C-, or better or instructor's permission.

**MATH 8400 DYNAMICAL SYSTEMS AND CHAOS (3 credits)**

Review of difference equations and differential equations, stability theory, periodic orbits, bifurcations, Lyapunov exponents, fractals, chaotic orbits, and chaotic attractors.

**Prerequisite(s):** Permission from Instructor (If you have a background that covers introduction to analysis, differential equations, linear algebra, and you are somewhat familiar with computer codes, it is easy to obtain permission.)

**MATH 8406 THE FINITE ELEMENT METHOD (3 credits)**

Introduction to finite elements methods for solving ordinary and partial differential equations. Theoretical foundations of finite element methods for boundary value problems, approximation by piecewise polynomial functions, variation formulation of partial differential equations, basic error estimates. The Rayleigh-Ritz-Galerkin method, convergence of approximations, time-dependent problems, error analysis, discretization and computer implementation, applications to problems in elasticity, heat transfer, and fluid mechanics. (Cross-listed with MATH 4400).

**Prerequisite(s):** MATH 1970, MATH 2050 and MATH 2350 all with a C- or better or instructor permission. MATH 3300/MATH 8305 and MATH 4330/MATH 8336 recommended. Students should be able to use a programming language (ie MATLAB) to complete computational assignments

**MATH 8410 BOOLEAN NETWORKS (3 credits)**

This course is focused on introduction to discrete dynamical networks, in particular logical networks, and their applications.

**Prerequisite(s):** MATH 1960 (Calculus II), MATH 2230 (proof writing skills), MATH 4740 or equivalent (basic probability theory), basic computer skills; or permission of the instructor.

**MATH 8430 LINEAR PROGRAMMING (3 credits)**

This course includes a complete development of theoretical and computational aspects of linear programming. Basic theoretical foundations covered include polyhedra, convexity, linear inequalities and duality. Advanced topics such as decomposition and column generation are covered. Both simplex methods and interior point methods are included.

**Prerequisite(s):** MATH 4300/MATH 8306

**MATH 8440 NETWORK PROGRAMMING (3 credits)**

A presentation of network flow models and optimization algorithms. Topics include pure, generalized, integer, and constrained network problems, plus special cases of each, including transportation, assignment, shortest-path, transshipment, and multicommodity.

**Prerequisite(s):** MATH 4300/MATH 8306

**MATH 8456 INTRODUCTION TO MACHINE LEARNING AND DATA MINING (3 credits)**

This is an introduction to machine learning and data mining which covers the following topics with an emphasis on mathematical and statistical analysis in supervised learning. Topics include machine learning workflow, evaluation metrics, validation approaches, classification models including logistic regression, decision tree, boosting, random forest, support vector machines, neural networks, Bayesian methods, etc. If time allows, text mining and unsupervised learning topics will also be introduced in the course. Statistical software will be used. (Cross-listed with MATH 4450, STAT 4450, STAT 8456)

**Prerequisite(s):** MATH 4740/8746 with a C- or better or STAT 3800/8805 with a C- or better or permission of instructor.

**MATH 8460 INTEGER PROGRAMMING (3 credits)**

Advanced study in mathematical programming with integer or mixed integer variables. Topics include integer programming, modeling, applications of integer programming, and exploration of solution algorithms based on linear programming and heuristic methods such as tabu search, simulated annealing, and genetic algorithms.

**Prerequisite(s):** MATH 4300/CSCI 4300/MATH 8306/CSCI 8306. Not open to non-degree graduate students.

**MATH 8480 MULTI-AGENT SYSTEMS AND GAME THEORY (3 credits)**

This course covers advanced topics in the area of coordination of distributed agent-based systems with a focus on computational aspects of game theory. The main topics covered in this course include distributed constraint satisfaction, distributed constraint optimization, and competitive and cooperative game theory. (Cross-listed with CSCI 8480).

**Prerequisite(s):** CSCI 4450 or CSCI 8456. Suggested background courses: CSCI 4480 or CSCI 8486; CSCI 8080. Not open to non-degree graduate students.

**MATH 8500 NUMERICAL LINEAR ALGEBRA (3 credits)**

Topics covered in this course include error propagation, solutions of nonlinear equations, solutions of linear and nonlinear systems by various schemes, matrix norms and conditioning, and computation of eigenvalues and eigenvectors. (Cross-listed with CSCI 8500).

**Prerequisite(s):** MATH 1960 and MATH 2050, or permission of instructor. Familiarity with computer programming is assumed.

**MATH 8510 NUMERICAL DIFFERENTIAL EQUATIONS (3 credits)**

Topics covered in this course include interpolation and approximations, numerical differentiation, numerical integration, and numerical solutions of ordinary and partial differential equations. (Cross-listed with CSCI 8510).

**Prerequisite(s):** MATH 1970, MATH 2350, or permission of instructor. Familiarity with computer programming is assumed.

**MATH 8520 ADVANCED TOPICS IN OPERATIONS RESEARCH (3 credits)**

Advanced treatment of a specific topic in the area of operations research not available in the regular curriculum. Topics, developed by individual faculty members, will reflect their special interests and expertise. The course may be repeated for credit as topics differ. (Cross-listed with CSCI 8520).

**Prerequisite(s):** MATH 4300 or MATH 8306 or CSCI 4300 or CSCI 8306 or permission of the instructor.

**MATH 8566 NUMBER THEORY & CRYPTOGRAPHY (3 credits)**

An overview of one of the many beautiful areas of mathematics and its modern application to secure communication. The course is ideal for any student who wants a taste of mathematics outside of, or in addition to, the calculus sequence. Topics to be covered include: prime numbers, congruences, perfect numbers, primitive roots, quadratic reciprocity, sums of squares, and Diophantine equations. Applications include error-correcting codes, symmetric and public key cryptography, secret sharing, and zero knowledge proofs. (Cross-listed with CSCI 4560, CSCI 8566, MATH 4560).

**Prerequisite(s):** MATH 2230 with a C- or better or MATH 2030 with a C- or better or CSCI 2030 with a C- or better or permission of instructor

**MATH 8616 INTRODUCTION TO TOPOLOGY (3 credits)**

This is a proof-oriented course presenting the foundations of topology. Metric spaces and general topological spaces are introduced. The course explores the properties of connectedness, compactness and completeness, and operations of Tychonoff product and hyperspace. (Cross-listed with MATH 4610).

**Prerequisite(s):** MATH 3230/8235 with a C- or better or permission of instructor.

**MATH 8620 GENERAL TOPOLOGY (3 credits)**

General topology has roots in geometry and analysis through the study of spaces, dimensions, and transformations. Its development was influenced by the parallel development of (axiomatic) set theory. This course introduces topological spaces from the point of view of separation axioms, countability axioms, compactifications, Baire property, and other completeness properties. Basic concepts of Descriptive Set Theory are also introduced.

**Prerequisite(s):** MATH 4610/8616 or permission of instructor.

**MATH 8626 ITERATED FUNCTION SYSTEMS AND FRACTALS (3 credits)**

This is a proof-oriented course presenting the foundations of fractal geometry. It introduces students to the beauty, magic, and applications of fractals and iterated function systems, with emphasis on the mathematics behind it all. Topics range from contractions on hyperspaces and their fixed points to fractal dimensions to Julia and Mandelbrot sets. (Cross-listed with MATH 4620).

**Prerequisite(s):** MATH 8616 with a C or better or permission of instructor.

**MATH 8645 MODERN GEOMETRY (3 credits)**

This course will study the modern foundations of Euclidean and Non-Euclidean Geometry. Included will be a study of the principles of axiomatic systems. Euclidean Geometry will be investigated using Hilbert's axioms for Euclidean geometry (or another equivalent Euclidean geometry axiom set). Hyperbolic geometry will be encountered through the models of Klein and Poincare. Neutral geometry with Lambert and Saccheri quadrilaterals will be studied. Finite geometries and projective geometries will also be explored. (Cross-listed with MATH 3640).

**Prerequisite(s):** MATH 2230 with a grade of C- or better.

**MATH 8650 INTRODUCTION TO PROBABILITY MODELS (3 credits)**

This is an introduction to probability modeling including Poisson Processes, Markov chains, birth-death processes, queueing models and renewal theory. Applications will be an important part of the course.

**Prerequisite(s):** MATH 4740/MATH 8746 or STAT 3800/STAT 8805 or permission of instructor.

**MATH 8666 AUTOMATA, COMPUTABILITY, AND FORMAL LANGUAGES (3 credits)**

This course presents a sampling of several important areas of theoretical computer science. Definition of formal models of computation and important properties of such models, including finite automata and Turing machines. Definition and important properties of formal grammars and their languages. Introduction to the formal theories of computability and complexity. (Cross-listed with CSCI 4660, CSCI 8666, MATH 4660).

**Prerequisite(s):** MATH 2030. Recommended: CSCI 3320/CSCI 8325.

**MATH 8670 TOPICS IN PROBABILITY AND STATISTICS (3 credits)**

Advanced treatment of a specific topic in the area of probability and/or statistics not available in the regular curriculum. Topics, developed by individual faculty members, will reflect their special interests and expertise. The course may be repeated for credit as topics differ. (Cross-listed with STAT 8670).

**Prerequisite(s):** MATH 4750/MATH 8756 or STAT 3800/STAT 8805 or permission from instructor

**MATH 8720 RELIABILITY THEORY (3 credits)**

This course covers the probabilistic and statistical aspects of reliability theory. Reliability theory is concerned with the probability that a component or system is successfully working over a given time period or at a specific time instance. (Cross-listed with STAT 8720).

**MATH 8746 INTRODUCTION TO PROBABILITY AND STATISTICS I (3 credits)**

A mathematical introduction to probability theory including the properties of probability; probability distributions; expected values and moments; specific discrete and continuous distributions; and transformations of random variables. (Cross-listed with MATH 4740).

**Prerequisite(s):** MATH 1970 and either MATH 2230 or MATH 2030 all with a grade of C- or better or permission of instructor.

**MATH 8756 INTRODUCTION TO PROBABILITY AND STATISTICS II (3 credits)**

Theory and methods of statistical inference including sampling distributions, estimators, estimation, and statistical hypotheses. (Cross-listed with MATH 4750).

**Prerequisite(s):** MATH 4740/MATH 8746 with a grade of C- or better.

**MATH 8766 TOPICS IN APPLIED MATHEMATICS (3 credits)**

Selection of such topics such as dynamical systems and chaos, Boolean networks, modeling of discrete or continuous systems, matrix theory, difference equations, information theory, discrete events simulation and other approved by Upper Curriculum Committee. (Cross-listed with MATH 4760).

**Prerequisite(s):** MATH 3100/CSCI 3100 with a grade of C- or better, or permission of instructor.

**MATH 8855 HISTORY OF MATHEMATICS (3 credits)**

An overview of the history of mathematics and famous mathematicians via studying and solving famous mathematical problems, exploring famous mathematical theorems, and studying the biographies of famous mathematicians. (Cross-listed with MATH 3850).

**Prerequisite(s):** MATH 1950 with a grade of C- or higher and one of either MATH 2230 or MTCH 2000 with a grade of C- or higher.

**MATH 8956 TOPICS IN THEORETICAL MATHEMATICS (3 credits)**

This course introduces students to a specialized subject matter in the areas of theoretical mathematics not covered in existing courses. The course may be repeated for different topics up to a maximum of six credit hours. The specific topics will vary, depending upon when the course is offered. One example of a course is Axiomatic Set Theory. (Cross-listed with MATH 4950).

**Prerequisite(s):** Permission of instructor.



**MATH 8960 MASTER'S PROJECT (1-6 credits)**

An applied project, designed and executed under the supervision of both a faculty and industry advisor. In the project the student will apply their mathematical and/or statistical skills to an applied problem. The student will present their results via a written report and oral presentation. (Cross-listed with STAT 8960).

**Prerequisite(s):** Permission of faculty advisor and graduate program chair. Not open to non-degree graduate students.

**MATH 8970 INDEPENDENT GRADUATE STUDIES (1-3 credits)**

Under this number a graduate student may pursue studies in an area that is not normally available to him/her in a formal course. The topics studied will be a graduate area in mathematics to be determined by the instructor.

**Prerequisite(s):** Permission of instructor and graduate classification.

**MATH 8980 GRADUATE SEMINAR (3 credits)**

A graduate seminar in mathematics offering coverage of advanced areas of mathematics. Topics to be covered by the course will vary in different semesters.

**Prerequisite(s):** Permission of the Instructor.

**MATH 8990 THESIS (1-6 credits)**

An independent research project, written under the supervision of a graduate adviser in the department of mathematics. Approval of the topic and the completed project by thesis committee is required.

**Prerequisite(s):** Approval of the topic and the completed project by thesis committee is required.

**MATH 9110 ADVANCED TOPICS IN APPLIED MATHEMATICS (3 credits)**

Advanced treatment of a specific topic in the area of applied mathematics not available in the regular curriculum. Topics, developed by individual faculty members, will reflect their special interests and expertise. The course may be repeated for credit as topics differ.

**Prerequisite(s):** Permission of instructor.

**MATH 9230 THEORY OF FUNCTION OF REAL VARIABLES (3 credits)**

A theoretical foundation for the concepts of measure theory and integration on a measure space as developed by Henry Leon Lebesgue (followed by others) starting the first decade of the 20th century including a comparison with Riemann's classical construction of integration theory known from classical calculus. Topics include: Real number system, convergence, continuity, bounded variation, differentiation, Lebesgue-Stieltjes integration, abstract measure theory, and the  $L_p$  spaces.

**Prerequisite(s):** MATH 4230/MATH 8236 or permission of the instructor

## Mathematics for Teachers (MTCH)

### Mathematics for Teachers Graduate Courses

**MTCH 8010 STATISTICAL RESEARCH FOR MATHEMATICS TEACHERS (3 credits)**

This course is designed for graduate students in the MAT program who select the statistics option to complete their degree. The student will do a literature review, design a study involving mathematics education, gather and analyze the data, and prepare a manuscript for submission to a refereed journal. (The course will not count toward a major in the MA or MS program.) To prepare for the course, interested students should contact the instructor of the course several months before (8 is the norm) to have time to do the groundwork for the study.

**Prerequisite(s):** STAT 8015 and TED 8010.

**MTCH 8020 MATHEMATICAL MODELING FOR SECONDARY TEACHERS (3 credits)**

This course will examine the mathematics underlying several problem situations found in a variety of societal settings. Mathematical models of problems in current literature will be examined and other models will be constructed based on data collected through course activities. Topics relevant to these problems will include function analysis, algebra, geometry, trigonometry and probability and statistics. The role of mathematics in society will be evidenced as problems considered will be timely and sources utilized will include original documentation whenever possible (i.e. recent research reports, government reports and publications). (Cross-listed with STEM 8020).

**MTCH 8030 ALGEBRA FOR ALGEBRA TEACHERS (3 credits)**

This course will use study interesting mathematical systems related to key algebraic ideas and study habits of mind that are key to effective problem solving. The properties about numbers and operations discovered will connect to the same properties taught in school algebraic course. Special attention will be paid to linear, quadratic, exponential, and logarithmic, polynomial functions in connection to their importance in school algebra.

**Prerequisite(s):** Admission to the Graduate Program

**MTCH 8040 TOPICS IN MATHEMATICAL COMPUTING (3 credits)**

This course focuses on the current state-of-the-art technology that is either designed for or is uniquely suitable for teaching mathematics. (Cross-listed with STEM 8040)

**Prerequisite(s):** MATH 2200 or equivalent or approval of instructor.

**MTCH 8880 ADVANCED PLACEMENT INSTITUTE: CALCULUS (3 credits)**

A workshop for teachers planning to offer an advanced placement course in calculus. Objectives include increasing teacher competencies in single-variable calculus, discussion and study of AP calculus exams, implementations of AP courses in calculus, and development and presentation of projects for graduate credit. (This course will not count toward the M.A. or M.S. degrees in Mathematics, or the Secondary Mathematics Specialist Graduate Certificate.)

**Prerequisite(s):** Graduate in mathematics or mathematics education.

## Mechanical Engineering (MECH)

### Mechanical Engineering Graduate Courses

**MECH 891 SPECIAL TOPICS IN ENGINEERING MECHANICS (1-6 credits)**

Treatment of special topics in engineering mechanics by experimental, computational and/or theoretical methods. Topics will vary from term to term. (Cross-listed with MECH 491).

**MECH 898 RESEARCH (0-6 credits)**

Faculty-supervised research. (Cross-listed with MECH 498).

**MECH 999 DOCTORAL DISSERTATION (1-24 credits)**

Doctoral dissertation

**Prerequisite(s):** Admission to doctoral degree program and permission of supervisory committee chair.



# Music (MUS)

## Music Graduate Courses

### **MUS 815A APPLIED BASSOON (1-3 credits)**

This course provides individual weekly instruction on bassoon. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

### **MUS 815B APPLIED CELLO (1-3 credits)**

This course provides individual weekly instruction on cello. Students work with the instructor to schedule lessons for 1-3 credits. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the string faculty.

### **MUS 815C APPLIED CLARINET (1-3 credits)**

This course provides individual weekly instruction on clarinet. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

### **MUS 815D APPLIED DOUBLE BASS (1-3 credits)**

This course, applied bass, is intended for private study of the double bass at the university graduate level. This course provides individual weekly instruction on double bass. Students work with the instructor to schedule lessons for one to three credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** An audition is required of all students registering for three hours of study and declaring bass as their major instrument. Not open to non-degree graduate students.

### **MUS 815E APPLIED EUPHONIUM (1-3 credits)**

This course provides individual weekly instruction on euphonium. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

### **MUS 815F APPLIED FLUTE (1-3 credits)**

This course provides individual weekly instruction on flute. Students work with the instructor to schedule lessons for one credit hour (non-majors), two credit hours (music education majors), or three credit hours (music performance majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty, or successful completion of at least 1 credit of MUS 815F. Students enrolled in this course must also enroll in an instrumental ensemble.

### **MUS 815G APPLIED FRENCH HORN (1-3 credits)**

This course provides individual weekly instruction on french horn. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

### **MUS 815H APPLIED GUITAR (1-3 credits)**

This course, applied guitar, is intended for private study of the guitar at the university graduate level. This course provides individual weekly instruction on guitar. Students work with the instructor to schedule lessons for one to three credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** An audition is required of all students registering for three hours of study and declaring guitar as their major instrument. Not open to non-degree graduate students.

### **MUS 815I APPLIED HARP (1-3 credits)**

This course provides individual weekly instruction on harp. Students work with the instructor to schedule lessons for 1-3 credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** An audition is required of all students registering for three hours of study and declaring harp as their major instrument. Not open to non-degree graduate students.

### **MUS 815J APPLIED OBOE (1-3 credits)**

This course provides individual weekly instruction on oboe. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

### **MUS 815K APPLIED PERCUSSION (1-3 credits)**

This course provides individual weekly instruction on percussion. Students work with the instructor to schedule lessons. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Admission into the graduate college. Enrollment in this course requires an audition performed for and approved by the percussion faculty. Must attend the weekly masterclass. Not open to non-degree graduate students.

### **MUS 815L APPLIED PIANO (1-3 credits)**

This course provides individual weekly instruction on piano. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), or three credits (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the piano faculty. Music majors must attend the weekly masterclass.

### **MUS 815M APPLIED PIPE ORGAN (1-3 credits)**

This course provides individual weekly instruction on organ. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for & approved by the keyboard faculty. Music majors must attend the weekly masterclass.

### **MUS 815N APPLIED SAXOPHONE (1-3 credits)**

This course provides individual weekly instruction on saxophone. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the woodwind faculty. Music majors must attend the weekly masterclass.

### **MUS 815O APPLIED TROMBONE (1-3 credits)**

This course provides individual weekly instruction on trombone. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), and three credits (MM). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 815P APPLIED TRUMPET (1-3 credits)**

This course provides individual weekly instruction on trumpet. Students work with the instructor to schedule lessons for one credit hour (BA), two credit hours (BM), and MM (three credits). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 815Q APPLIED TUBA (1-3 credits)**

This course provides individual weekly instruction on tuba. Students work with the instructor to schedule lessons for one credit hour (non-majors) or two credit hours (music majors). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** Enrollment in this course requires an audition performed for and approved by the brass faculty. Music majors must attend the weekly masterclass.

**MUS 815R APPLIED VIOLA (1-3 credits)**

This course, applied bass, is intended for private study of the viola at the university graduate level. This course provides individual weekly instruction on viola. Students work with the instructor to schedule lessons for one to three credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** An audition is required of all students registering for three hours of study and declaring viola as their major instrument. Not open to non-degree graduate students.

**MUS 815S APPLIED VIOLIN (1-3 credits)**

This course provides individual weekly instruction on violin. Students work with the instructor to schedule lessons for 1-3 credit hours. Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** An audition is required of all students registering for three hours of study and declaring violin as their major instrument. Not open to non-degree graduate students.

**MUS 815T APPLIED VOICE (1-3 credits)**

This course provides graduate level individual weekly instruction for voice. Students work with their assigned instructor to schedule lessons for one or two credit hour (MM Education candidates) or three credit hours (MM Performance candidates). Students are evaluated at each lesson on their musical and technical progress. A lab fee is required.

**Prerequisite(s):** This course requires an audition performed for and approved by the voice faculty. All students must attend the weekly masterclass.

**MUS 8006 SPECIAL STUDIES IN MUSIC (1-3 credits)**

Seminars or workshops in Theory, History, Performance, and Music Education designed to meet specific interests and needs of students. Topics and number of credits for each specific offering will be announced during the prior semester. (Cross-listed with MUS 4000).

**Prerequisite(s):** Graduate and permission of department.

**MUS 8160 PERFORMING ENSEMBLES (0-1 credits)**

This course is designed to provide high quality performance experience for the graduate level string, voice, instrumental, and jazz students. In addition to the series concerts on campus, there are frequent appearances at professional music conferences and community/statewide events. Students will be exposed to a wide variety of music from appropriate style periods.

**Prerequisite(s):** Graduate standing, audition. Not open to non-degree graduate students.

**MUS 8246 ADVANCED AUDIO RECORDING TECHNIQUES (3 credits)**

This course provides students with advanced instruction in sound mixing, digital audio editing, audio post-production and mastering. Topics include advanced digital audio editing, audio signal processing techniques, analog signal processing hardware, automation, and final product authoring and mastering. (Cross-listed with MUS 4240).

**Prerequisite(s):** MUS 3170, MUS 4200 & MUS 4210. Not open to non-degree graduate students.

**MUS 8436 ARRANGING FOR JAZZ ENSEMBLE (3 credits)**

Techniques of writing for jazz ensembles of various combinations of instruments. (Cross-listed with MUS 4430).

**Prerequisite(s):** MUS 2480 or MUS 2420

**MUS 8446 MUSIC SINCE 1945 (3 credits)**

This course covers important developments in music in the United States and Europe since 1945. (Cross-listed with MUS 4440).

**Prerequisite(s):** Graduate standing or permission of the instructor.

**MUS 8460 MUSIC ANALYSIS (3 credits)**

Advanced study of performance practice and music analysis.

**MUS 8536 HISTORY OF WESTERN OPERA (3 credits)**

This course will consist of significant music theater works in the Western world from 1600 to the present. (Cross-listed with MUS 4530).

**Prerequisite(s):** Music major or permission of instructor

**MUS 8546 RENAISSANCE MUSIC LITERATURE (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of music literature c. 1350-1600. (Cross-listed with MUS 4540).

**Prerequisite(s):** MUS 2550, 2560, 2570 and graduate. Not open to non-degree graduate students.

**MUS 8556 BAROQUE MUSIC LITERATURE (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of music literature from c. 1600-1750. (Cross-listed with MUS 4550).

**Prerequisite(s):** MUS 2550, MUS 2560 and graduate.

**MUS 8566 CLASSICAL MUSIC LITERATURE (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of music literature from c. 1750-1815. (Cross-listed with MUS 4560).

**Prerequisite(s):** MUS 2550, 2560, 2570 and graduate

**MUS 8576 ROMANTIC MUSIC LITERATURE (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of Music literature from c. 1815-1912. (Cross-listed with MUS 4570).

**Prerequisite(s):** MUS 2550, MUS 2560 and graduate.

**MUS 8586 MUSIC FROM 1900 - 1945 (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of music literature from the post-romantic period to 1945. The objective will be to provide the student with a broad overview with special attention given to composers and individual works which typify a style or form. (Cross-listed with MUS 4580).

**Prerequisite(s):** MUS 2560.

**MUS 8596 AFRICAN-AMERICAN POPULAR MUSIC FROM BEBOP TO HIP-HOP (3 credits)**

This course is intended for music majors who wish to undertake a comprehensive survey of African-American popular music literature from c. 1900-present. The objective will be to provide the student with a broad overview with special attention given to musicians and individual works which typify a style or form. Listening assignments will be an integral part of the course, and attendance at live performances will supplement the lectures, discussions and readings. (Cross-listed with MUS 4590).

**Prerequisite(s):** Music major standing or permission of instructor.

**MUS 8600 PEDAGOGY OF WORLD MUSIC (3 credits)**

This class will cover the two primary approaches to teaching world musics; the world music curriculum and the music in America curriculum. Pedagogical approaches to the case study and the cultural survey will be included. Activities relating to performing and listening to world musics are also part of the course.

**Prerequisite(s):** Graduate

**MUS 8606 PIANO PEDAGOGY (3 credits)**

This course is a survey of the art of teaching the piano. Course content will include a survey of beginning and intermediate piano methods, literature for the beginning/intermediate piano student, studio business practice, professional organizations, and group piano instruction pedagogy. (Cross-listed with MUS 4600).

**MUS 8610 ORGANIZATION AND ADMINISTRATION IN MUSIC (3 credits)**

Course is designed to acquaint students with the knowledge and concepts necessary for understanding and developing music education programs in the public schools and specific knowledge pertaining to policies and procedures for administering and supervising programs of music education.

**MUS 8616 VOICE PEDAGOGY (3 credits)**

This course is a study of the physiological and acoustical properties of the vocal mechanism and of the various techniques used in developing the singing voice. Also, it will apply knowledge acquired about the voice through studio teaching and observations of other voice teachers. (Cross-listed with MUS 4610).

**Prerequisite(s):** Voice Music Major or permission of instructor.

**MUS 8630 RESEARCH AND BIBLIOGRAPHY IN MUSIC (3 credits)**

A study of research techniques and literature in music toward the objectives of reading and evaluating music research and doing independent work in the area.

**Prerequisite(s):** Graduate standing in the UNO School of Music.

**MUS 8640 FOUNDATIONS OF MUSIC EDUCATION (3 credits)**

A study of psychological and historical backgrounds of music education through attention to relevant topics in the psychology of music and learning theory and through relevant readings in the history of music education as well as sociological trends in American schools.

**Prerequisite(s):** Graduate.

**MUS 8660 PEDAGOGY OF MUSIC THEORY (3 credits)**

Designed to introduce teachers to the techniques and problems of teaching music theory in elementary and secondary schools and colleges. This will be accomplished through a variety of methods to include a review of texts, teaching, and research.

**Prerequisite(s):** Acceptance to the graduate program in music.

**MUS 8670 KODALY I: METHODOLOGY (3 credits)**

This course provides strategies for teaching music based on the philosophies and practices of musician-composer-educator Zoltan Kodaly. Level I courses focus specifically on pedagogy, repertoire, and materials for grades prekindergarten through grade 1.

**MUS 8680 KODALY 2: METHODOLOGY (3 credits)**

This course provides strategies for teaching music based on the philosophies and practices of musician-composer-educator Zoltan Kodaly. Level I courses focus specifically on pedagogy, repertoire, and materials for grades 2 through grade 4.

**Prerequisite(s):** Successful completion of MUS 8670

**MUS 8690 KODALY 3: METHODOLOGY (3 credits)**

This course provides strategies for teaching music based on the philosophies and practices of musician-composer-educator Zoltan Kodaly. Level III courses focus specifically on pedagogy, repertoire, and materials for grades 5-6.

**Prerequisite(s):** Successful completion of MUS 8680.

**MUS 8696 HEALTH AND WELLNESS FOR MUSICIANS (3 credits)**

Health and Wellness for Musicians gives an overview of the dimensions of wellness and common health/wellness challenges for musicians. The course provides students with a toolbox of ideas and strategies for the development, design, and implementation of a music wellness campaign for non-musicians and individualized wellness plans for specific instruments and voice types. (Cross-listed with MUS 4660).

**MUS 8700 CONDUCTING PRACTICUM (1-3 credits)**

Private instruction in conducting and an intense study of the various disciplines in music and their relationship and application to the art of conducting. Course may include a group seminar component. This course may be repeated for credit.

**Prerequisite(s):** Acceptance into the graduate program for conducting majors. Permission of instructor for performance or music education majors.

**MUS 8710 KODALY 4: METHODOLOGY AND ADVANCED STUDIES (3 credits)**

This course provides strategies for teaching music based on the philosophies and practices of musician-composer-educator Zoltan Kodaly. It is designed for students who have completed Kodaly certification (levels I-III). The course assists students in continual development of individual musicianship, mentoring, and research skills.

**MUS 8720 KODALY 1: MUSICIANSHIP (1 credit)**

This course provides basic musicianship skills through singing, conducting, and dictating simple rhythms, melodies and folk songs.

**Prerequisite(s):** Requires concurrent enrollment in MUS 8670

**MUS 8726 CHORAL LITERATURE (3 credits)**

A survey course in the study of significant choral genre of the various periods of music from plain song to contemporary music. (Cross-listed with MUS 4720).

**Prerequisite(s):** Graduate music major standing or permission of the instructor.

**MUS 8730 KODALY 2: MUSICIANSHIP (1 credit)**

This course provides intermediate musicianship skills through singing, conducting, and dictating simple rhythms, melodies and folk songs.

**Prerequisite(s):** Prerequisites: MUS 8670 and MUS 8720; Requires concurrent enrollment in MUS 8680

**MUS 8736 KEYBOARD LITERATURE (3 credits)**

This course will examine literature written for keyboard (piano) from the 16th century to the present. Emphasis will be placed on solo literature of the Baroque, Classic, Romantic, and Contemporary periods. Included are keyboard concertos with orchestra and works for four hands and two pianos. (Cross-listed with MUS 4730).

**MUS 8740 KODALY 3: MUSICIANSHIP (1 credit)**

This course provides advanced musicianship skills through singing, conducting, and dictation of rhythms, melodies and folk songs in multiple meters, scales, and modes.

**Prerequisite(s):** Prerequisite must have completed MUS 8680 and MUS 8730; Requires concurrent enrollment in MUS 8690

**MUS 8746 VOICE LITERATURE (3 credits)**

This course is a study of the development of art song in Europe and America. Emphasis will be given to German and French song literature and their influences on English and American song. (Cross-listed with MUS 4740).

**Prerequisite(s):** MUS 815T or permission of graduate instructor.

**MUS 8770 KODALY 4: MUSICIANSHIP (1 credit)**

This course provides advanced musicianship skills through singing, conducting, and dictation of rhythms, melodies and folk songs in multiple meters, scales, and modes.

**Prerequisite(s):** Prerequisites: completion of MUS 8690 and MUS 8740; Corequisites: Requires concurrent enrollment in MUS 8710

**MUS 8836 ARRANGING FOR JAZZ ENSEMBLE II (3 credits)**

This course provides students with advanced instruction in the principles and techniques of writing and arranging for large jazz ensembles. Topics include instrumentation, jazz harmony, voicings, rhythmic devices, orchestration, form, and analysis of historical styles. Students will create effective arrangements for big band by examining the dynamic and expressive qualities of instrument families as they relate to timbre, range, balance, and rhythmic variation. (Cross-listed with MUS 4830).

**Prerequisite(s):** MUS 8436: Arranging for Jazz Ensemble

**MUS 8970 GRADUATE PROJECT (3 credits)**

Completion of a graduate project relevant to the student's major area of study under the supervision of an advisor. The project must demonstrate competency in writing and research/creative activity as it pertains to appropriate aspects of music.

**Prerequisite(s):** A committee comprised of three full-time faculty members, with graduate standing in the School of Music must approve the project.

**MUS 8980 RECITAL (3 credits)**

This course involves the selection, preparation and public performance of a full recital in the student's major applied area. The recital should demonstrate the student's competency in a variety of styles and make advanced technical and interpretative demands. The course also includes related Electronic Press Kit: program, press release and photo.

**Prerequisite(s):** Students are required to pay a Recital Fee which covers costs for programs and recording. Students must be concurrently enrolled in applied lessons (MUS 815) on the instrument/voice on which they are performing the recital.

**MUS 8990 THESIS (3 credits)**

The purpose of this course is to allow graduate students in Music Education the opportunity to develop a substantive thesis which employs and mirrors research or original thought of a quality and quantity appropriate to advanced work in music education. This course will be handled on an individual study basis with aid and consultation from a faculty thesis advisor and thesis committee. Method of grading will be a designation of "satisfactory" or "unsatisfactory".

**Prerequisite(s):** MUS 8630 and 24 hours of graduate coursework. A Proposed Supervisory Committee Form and Thesis Proposal Approval Form filed with the Office of Graduate Studies before initiating the thesis at least one semester prior to anticipated graduation date.

## Neuroscience (NEUR)

### Neuroscience Graduate Courses

**NEUR 8006 SYSTEMS NEUROSCIENCE (3 credits)**

This course is designed to provide a solid understanding of the peripheral and central connections that make the systems of the body function. Data and theories of brain-behavior relationships from current research in neuroscience will be discussed. (Cross-listed with NEUR 4000).

**Prerequisite(s):** Graduate standing or permission. Not open to non-degree graduate students.

**NEUR 8166 NEUROPHARMACOLOGY (3 credits)**

Neuropharmacology will introduce students to ligand-receptor interactions and their effects on behavior, cognition, and development. This course will characterize the molecular structure of ligands and how these small molecules or biologics affect central nervous system receptors and transporters. Students will learn about structure-activity relationships and principles of pharmacology: distribution, metabolism, pharmacokinetics, and elimination) and explore the historical milestones in drug development. We'll also discuss the dynamic actions of drugs of abused drugs and the mechanisms of action. For undergraduate Neuroscience Majors, the course counts as a Neuroscience Block 1. (Cross-listed with NEUR 4160, PSYC 4160, PSYC 8166).

**Prerequisite(s):** Graduate standing

**NEUR 8296 NEUROETHOLOGY (3 credits)**

In the field of Neuroethology a major goal is to understand the neural bases of animal behaviors in a natural context. In this course students will investigate how behaviors are generated and modulated by the nervous system in organisms ranging from insects to mammals. We will explore the neural mechanisms underlying a variety of animal behaviors as they interact with their natural environment ranging from sensory perception of the world (e.g. echolocation, electrolocation), to locomotor movements (e.g. flying, swimming), to more complex behaviors (e.g. learning, memory). (Cross-listed with NEUR 4290, BIOL 4290, BIOL 8296, PSYC 8296).

**Prerequisite(s):** Graduate Standing. Not open to non-degree graduate students.

**NEUR 8336 SOCIAL NEUROSCIENCE (3 credits)**

This course will evaluate the biological substrates of sociality and social behavior, and examine how brain events bias social behavior and cognition, as well as how social behavior and cognition influence brain functioning. We will explore the neural mechanisms that inform social behavior and explain our ability to recognize, understand and interact with others. Cutting edge questions on concepts such as love, trust, empathy and prejudice will also be explored. (Cross-listed with NEUR 4330, PSYC 8336).

**Prerequisite(s):** Graduate status or permission of Instructor. Not open to non-degree graduate students.

**NEUR 8346 ADVANCED BEHAVIORAL NEUROSCIENCE (3 credits)**

Building on content from Introductory Neuroscience courses, this course will deeply explore the fundamental link between behavior and biological processes. Prepare to unravel the mysteries of behavior, cognition, emotions, sensory systems, and disorders by exploring cutting-edge neuroscience methods to reveal the specific cells and neurobiological processes that give rise to human and animal behavior. PSYC 4230 should not be taken after the completion of this course. (Cross-listed with NEUR 4340, PSYC 4340).

**Prerequisite(s):** Graduate standing

**NEUR 8486 NEUROIMMUNOLOGY (3 credits)**

The course explores the bi-directional mechanisms by which the brain and the immune system communicate with each other in health and during injury or infection. This course also introduces human immunology as a basis for understanding the advanced content in neuroimmunology. Topics include innate immunity in the central nervous system (CNS), inflammation in neurodegenerative diseases, CNS infections and autoimmune diseases. Reading and evaluating neuroimmunology primary literature, presentation and scientific writing will be emphasized. Counts as a Neuroscience Block 1 course requirement. (Cross-listed with NEUR 4480).

**Prerequisite(s):** Graduate standing.

**NEUR 8646 NEURAL MECHANISMS OF SUBSTANCE USE DISORDERS (3 credits)**

This course details how the brain changes during and after the administration of illicit substances. Illicit drugs 'hijack' the natural reward pathways and brain circuits. Material highlights brain regions, neural circuits, and structural alterations that accompany illicit drug use. Modern neuroscience research techniques that measure and manipulate brain function reveal opportunities for therapeutic interventions. The course will explore how therapeutic interventions repair the brain. (Cross-listed with NEUR 4640).

**Prerequisite(s):** Graduate standing.

**NEUR 8846 GLIA IN HEALTH AND DISEASE (3 credits)**

While neurons are often highlighted as the primary drivers of brain function, evidence is rapidly growing that a lesser-known class of cells, glia, are intimately involved in virtually all aspects of central nervous system function. This course is designed for students looking for an in-depth discussion on the various glial cells of the central system, with an emphasis on cutting-edge research and the techniques used to study them. Counts as a Block 1 Neuroscience requirement. (Cross-listed with NEUR 4840).

**Prerequisite(s):** Graduate standing



**NEUR 8856 NEUROBIOLOGY OF LEARNING AND MEMORY (3 credits)**

This course will evaluate the neurobiology of learning and memory. In this course students will explore how learning and memory processes are encoded and stored at the cellular and molecular neurobiology levels. We will examine both classic and cutting edge studies to see how changes in molecular activity, genetics, and cellular physiology can influence learning and memory processes. Counts as a Block 1 course for Neuroscience Majors. (Cross-listed with NEUR 4850).

**Prerequisite(s):** Graduate Standing. Not open to non-degree graduate students.

**NEUR 8876 MOLECULAR AND CELLULAR NEUROBIOLOGY (3 credits)**

This course presents foundational topics in molecular and cellular neurobiology in the context of how the nervous system is functionally organized. Topics include: nervous system cell types and their subcellular organization; electrical properties of neurons and glia; energy metabolism and biochemistry of the brain; intra- and intercellular neuronal signaling; the regulation of gene expression in neuronal cells; synaptic plasticity; and how these are altered in disease. (Cross-listed with BIOL 4870, BIOL 8876, NEUR 4870).

**Prerequisite(s):** NEUR 1500, or both NEUR 1520 and NEUR 1540, or BIOL 3020, or permission of instructor.

**NEUR 8896 GENES, BRAIN, AND BEHAVIOR (3 credits)**

This course will evaluate the complex interaction between an organism's genome and neural activity pattern in the nervous system as related to behavior. In this course students will explore how changes in gene expression (allelic variants, epigenetics, differential regulation) and gene networks within neural tissue can reciprocally influence behaviors such as communication, foraging, reproduction, and cognition. (Cross-listed with NEUR 4890, BIOL 4890, BIOL 8896, PSYC 8896).

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

## Philosophy (PHIL)

### Philosophy Graduate Courses

**PHIL 8225 PHILOSOPHY OF ART (3 credits)**

The course is an inquiry into historical and contemporary philosophical perspectives on the making, interpreting and criticizing of works of art, including relations of the arts to other dimensions of cultures. Students will wrestle with foundational questions (e.g., "What is beauty?", "What is art?", "What makes good art good?", "Is there a right way to interpret art?"), consider connections between art and ethics, culture, and politics (e.g., "Can an artwork be both immoral and good?", "Can a particular culture have exclusive rights to an artform?", "How does public art create political communities and divisions?"), explore questions within particular arts (e.g., "Can music represent?", "Why do we respond emotionally to fictions?"), and experience and evaluate art in light of these investigations. (Cross-listed with PHIL 3220)

**Prerequisite(s):** Graduate standing

**PHIL 8256 LIMITS OF CONSCIOUSNESS (3 credits)**

Consciousness is often considered one of the last great mysteries of science. Despite our internal experience of pleasures, sights, sounds, and pains, it is a largely open question why we have these experiences and what makes them happen. This upper level seminar class examines the philosophy, psychology, and neuroscience of consciousness. Topics covered will include neuroscientific theories of consciousness, unconscious perception, the relationship between attention and consciousness, animal consciousness, and detecting consciousness in the persistent vegetative state. (Cross-listed with PHIL 4250, PSYC 8256, PSYC 4250).

**Prerequisite(s):** PSYC 1010; or 6 hours in Philosophy. Not open to non-degree graduate students.

**PHIL 8655 PHILOSOPHY OF MIND (3 credits)**

A discussion of various accounts of the nature of minds which focuses upon philosophical problems such as whether the mind is identical with the brain, the extent of similarities between human minds and computers, the nature of personal identity and the relationship of mental activity to behavior.

(Cross-listed with PHIL 3650, PSYC 3650)

**Prerequisite(s):** No Prerequisites. Some prior coursework in Philosophy is recommended, but not required.

**PHIL 8900 READINGS IN PHILOSOPHY (3 credits)**

An individually organized program of readings pertinent to one or more topics subordinate to the heading of Philosophy. To be carried out under the supervision of a member of the graduate faculty. May be repeated once for credit.

**Prerequisite(s):** Graduate, permission of instructor, and no "incompletes" outstanding.

## Physics (PHYS)

### Physics Graduate Courses

**PHYS 8110 REPRESENTATIONS IN PHYSICS INSTRUCTION (3 credits)**

In this course, students will integrate pedagogical knowledge with content knowledge in physics. Specifically, students will learn how to plan instruction in physics and physical science using research-based tools that target state and national science standards. Students in this class will learn what productive representations their students can use to assist them in bridging phenomena, words and mathematics. The course will focus on cross-cutting concepts in motion, forces, and energy/momentum. This course is designed for pre- and in-service teachers.

**Prerequisite(s):** PHYS 1050, PHYS 1110, PHYS 2110, or permission of the instructor.

**PHYS 8120 EXPERIMENTS IN PHYSICS INSTRUCTION (3 credits)**

In this course, students will learn to reconceptualize the role experiments play in the teaching and learning of physics. Specifically, students will learn a framework for thinking about experiments that engage understanding, and they will use this framework to plan instruction in physics and physical science that targets state and national science standards. Students in this class will also learn the role of labs and their integration, multilayered experiments, and practical aspects of experimentation. This course is designed for pre- and in-service teachers.

**Prerequisite(s):** PHYS 1050, PHYS 1110, PHYS 2110, or permission of the instructor.

**PHYS 8206 INTRODUCTION TO QUANTUM MECHANICS (3 credits)**

This course provides an introduction to the historical development of modern physics and to the Schroedinger formulation of quantum mechanics. Specific topics will include square wells potential barriers, the simple harmonic oscillator potential and the hydrogen atom. Characteristics of multi-electron atoms, including angular momentum coupling schemes, spectra and transition rules will also be included. (Cross-listed with PHYS 4200)

**Prerequisite(s):** PHYS 3250 or permission.



**PHYS 8210 TEACHING PROBLEM-SOLVING IN PHYSICS (3 credits)**

In this course, students will learn how to teach problem-solving process abilities within the context of physics. Specifically, students will learn how the Zone of Proximal Development can be used as a model for designing structured problem-solving activities that build student abilities with time and acquisition of content knowledge, leading to their students solving multi-step and multi-concept problems. Students will also learn how to assess problem-solving process in a consistent and rigorous way. Concepts include problem framing and getting students to see beyond surface features, physics representations, translating physics representations into mathematics, multi-equation and multi-concepts problems, and reflection. Content includes motion, force, energy, momentum, electric force and fields, and magnetism.

**Prerequisite(s):** PHYS 1050, PHYS 1110, PHYS 2110, or permission of the instructor.

**PHYS 8216 QUANTUM THEORY (3 credits)**

The matrix operator formalism is covered along with philosophical implications of this approach. The methods developed will be applied to simple harmonic oscillator and hydrogen atom potentials. Raising and lowering operators, creation-annihilation operators, and first and second order perturbation theory will be discussed. (Cross-listed with PHYS 4210)

**Prerequisite(s):** PHYS 4200 or permission.

**PHYS 8226 PHYSICS OF MOLECULES AND SOLIDS (3 credits)**

This course covers the various types of atomic bonding found in molecules and solids. Electronic energy levels and spectra of molecules will be discussed. Topics in solid state physics will include mechanics and thermodynamics of crystals, the scattering of waves including x-ray and neutron scattering, electron scattering and phonon and photon interactions. (Cross-listed with PHYS 4220)

**Prerequisite(s):** PHYS 4200 or permission.

**PHYS 8230 PHYSICS EDUCATION METHODS (3 credits)**

In this course, students will integrate the research on learning theories with effective educational practices in the teaching of physics. Specifically, students will learn how to implement active learning strategies that support eliciting of student ideas, listening and questioning, and relationship building. In effect, this course focuses on the 'soft' skills needed for effective teaching of physics. Students will read articles from the education literature both specific to physics and in general. They will reflect on their experiences with their own students and how this relates to the literature they read.

**Prerequisite(s):** PHYS 1050, PHYS 1110, PHYS 2110, or permission of the instructor.

**PHYS 8236 SPECIAL RELATIVITY AND NUCLEAR PHYSICS (3 credits)**

This course includes a brief historical background of the development of relativity theory and the importance of the experiments performed in conjunction with it. Lorentz transformations and covariant formalism will be developed and applied to certain problems in mechanics and electricity and magnetism. The nuclear physics portion of the course will include the historical development of the concept of the nuclear atom. Theoretical models of nuclear structure will be discussed, along with the theory of alpha, beta and gamma decay. Fission and fusion discussed as time permits. (Cross-listed with PHYS 4230)

**Prerequisite(s):** PHYS 4200 or permission.

**PHYS 8306 GENERAL RELATIVITY (3 credits)**

A study of general relativity theory and its leading applications. Physical motivations and conceptual foundations will be explored. Students will be guided step-by-step to mastery of the tensor analysis required by this theory. Topics covered will include the equivalence principle, recap of special relativity, tensors, curvature and geodesics, Einstein field equations, black holes, cosmology, and gravitational waves. (Cross-listed with PHYS 4300)

**Prerequisite(s):** PHYS 3750 and PHYS 4230, or permission of instructor.

**PHYS 8356 ASTROPHYSICS (3 credits)**

This course introduces the fundamental of astrophysics to students with a prior knowledge of physics and mathematics. A review will be given of light and telescopes, classical and quantum mechanics and special relativity. Basic laws of physics will be applied to various topics such as: the sun, nuclear fusion and particle physics, evolution and end state of stars, interstellar medium, galaxies and cosmology. (Cross-listed with PHYS 4350)

**Prerequisite(s):** PHYS 2130 or 4200 and MATH 1970. Recommended: PHYS 1350.

**PHYS 8455 CLASSICAL MECHANICS (3 credits)**

Statics and dynamics of particles and rigid bodies including the equations of Lagrange and Hamilton.

**Prerequisite(s):** MATH 1970, PHYS 3250 or permission.

**PHYS 8505 ELEMENTS OF ELECTRONICS (3 credits)**

The topics covered will include basic circuit theory, principles and operation of electronic devices such as diodes, transistors and integrated circuits.

Application of these devices in various electronic circuits. Both analog and digital circuitry will be studied. (Cross-listed with PHYS 3500)

**Prerequisite(s):** PHYS 1120 or PHYS 2120 and MATH 1970

**PHYS 8506 BIOLOGICAL PHYSICS (3 credits)**

This course is designed primarily for students specializing in Biomedical Physics. As a part of Biomedical Physics program at the Department of Physics, the course introduces the fundamental principles of physics and the use of these principles for various biological applications.

PHYS 4500/8506 covers various topics including cells, polymers, polyelectrolytes, membranes, mesoscopic forces, self-assembly, photonics, fluid mechanics, motility, chemical kinetics, enzyme kinetics, modern experimental techniques of biophysics. Each topic connects biomolecules with their functions and relevant biological phenomena from a physics perspective. This course will benefit students with interests in biological and medical physics, as well as chemistry, biology. (Cross-listed with PHYS 4500).

**Prerequisite(s):** PHYS 2110 or permission of instructor required. PHYS 2120 and 3300 are recommended.

**PHYS 8556 PHYSICS IN MEDICINE (3 credits)**

This course is designed primarily for students desiring to specialize in Biomedical Physics. The course introduces principles and applications of various medical imaging modalities and medical physics based therapies. Topics include such imaging techniques as ultrasound, X-ray imaging, Computed Tomography (CT), MRI imaging, and positron emission tomography. The course discusses physical principles behind medical imaging and therapeutic applications and covers interaction of different kinds of radiation with biological matter. (Cross-listed with PHYS 4550).

**PHYS 8605 THERMODYNAMICS AND STATISTICAL PHYSICS (3 credits)**

Topics include: empirical and absolute temperature, equations of state, work, heat, entropy, the four laws of thermodynamics, phase changes, thermodynamic potentials, classical and quantum statistics of an ideal gas (e.g., blackbody radiation). Possible applications to be included: Einstein theory of a solid, paramagnetism, blackbody radiation, and conduction of electrons. (Cross-listed with PHYS 3600)

**Prerequisite(s):** PHYS 2120 and MATH 1970.

**PHYS 8755 ELECTRICITY AND MAGNETISM I (3 credits)**

An advanced study of electrostatics and magnetostatics, including Coulomb's law, Gauss' law, the scalar potential, conductors and dielectrics, electrostatic energy, special methods, electric currents, Ampere's law, the magnetic induction, Faraday's law, and the electromagnetic wave equation as obtained from Maxwell's equations, with simple examples such as transmission lines and antennas. (Cross-listed with PHYS 3750)

**Prerequisite(s):** MATH 1950, MATH 1960, MATH 1970, PHYS 3250, or permission.

**PHYS 8765 ELECTRICITY AND MAGNETISM II (3 credits)**

A selection of more advanced topics from electromagnetic theory, including a deeper treatment of the electromagnetic wave equations derived from Maxwell's equations, extending to propagation, reflection, and refraction of plane waves, waves in wave guides, and radiation. Other topics covered might be magnetism and magnetic energy, plasmas, and special relativity. (Cross-listed with PHYS 3760)

**Prerequisite(s):** PHYS 3750.

**PHYS 8805 OPTICS (3 credits)**

The behavior of electromagnetic radiation as formulated in the ray, wave, and quantum models. Topics will include: reflection and refraction, vergence, matrix method, optical instruments, scalar waves, electromagnetic waves, blackbody radiation, interference, diffraction, and lasers; if time permits, fiber optics and holography will also be included. (Cross-listed with PHYS 3800)

**Prerequisite(s):** PHYS 1120 or PHYS 2120 and MATH 1970.

**PHYS 8956 PROBLEMS IN PHYSICS (1-3 credits)**

Individual laboratory and/or library work, or reading course in some field of physics. (Cross-listed with PHYS 4950, PHYS 4960, PHYS 8966)

**Prerequisite(s):** PHYS 2120 and permission of instructor.

**PHYS 8966 PROBLEMS IN PHYSICS (1-3 credits)**

Individual laboratory and/or library work, or reading course in some field of physics. (Cross-listed with PHYS 4950, PHYS 4960, PHYS 8956)

**Prerequisite(s):** PHYS 2120 and permission of instructor.

## Political Science (PSCI)

### Political Science Graduate Courses

**PSCI 8000 SEMINAR IN THE RESEARCH METHODS IN POLITICAL SCIENCE (3 credits)**

This course introduces students to the methods of data collection and analysis for political science research.

**Prerequisite(s):** Permission of graduate adviser

**PSCI 8005 QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE (3 credits)**

This course introduces students to the techniques that political scientists use to answer research questions with quantitative data, as well as issues of research design, hypothesis formation, and causation. The course emphasizes the methods used to collect, analyze, and extract information from data using statistical computer software. (Cross-listed with PSCI 3000)

**Prerequisite(s):** Permission of graduate advisor

**PSCI 8015 URBAN POLITICS (3 credits)**

This course introduces students to the development, powers, forms of government, and functions of cities and their suburbs as well as the problems faced by elected officials, business and community leaders, and citizens in the urban setting. (Cross-listed with PSCI 3010)

**Prerequisite(s):** PSCI 1100.

**PSCI 8036 THE PRESIDENCY (3 credits)**

This course introduces students to the development and modern application of presidential leadership through examination of presidential selection, presidential decision-making, the relationship of the presidency with other governmental and non-governmental actors, and the role of the presidency in making public policy. (Cross-listed with PSCI 4030)

**Prerequisite(s):** PSCI 1100

**PSCI 8040 SEMINAR IN AMERICAN GOVERNMENT AND POLITICS (3 credits)**

This course introduces students to classic and contemporary scholarship on the principles, institutions, processes, and policies of national government in the United States with an emphasis on engaging in thoughtful discussion and individual research.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSCI 8045 GOVERNMENT AND POLITICS OF NEBRASKA (3 credits)**

This course introduces students to the development, structures, functions and public policies of the government of the state of Nebraska.. (Cross-listed with PSCI 3040)

**Prerequisite(s):** PSCI 1100.

**PSCI 8046 CONGRESS AND THE LEGISLATIVE PROCESS (3 credits)**

This course introduces students to the development of the Congress and modern application of the legislative process through examination of congressional elections, congressional leadership, congressional decision-making, legislative rules and procedures, the relationship of the Congress with other governmental and non-governmental actors, and the role of the Congress in making public policy. (Cross-listed with PSCI 4040)

**Prerequisite(s):** PSCI 1100

**PSCI 8055 STATE GOVERNMENT AND POLITICS (3 credits)**

This course introduces students to the development, structures, functions and public policies of states. (Cross-listed with PSCI 3050)

**Prerequisite(s):** PSCI 1100.

**PSCI 8056 THE JUDICIAL PROCESS (3 credits)**

This course introduces students to the administration of law in federal and state courts with respect to the organization of the courts, judicial selection, judicial powers, judicial decision-making, judicial policy-making, the bar, and reform movements in the pursuit of justice. (Cross-listed with PSCI 4050)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 8100 SEMINAR IN POLITICAL ECONOMY (3 credits)**

A comprehensive study of theories of political economy, linkages between politics and economics, and major contemporary issues.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSCI 8105 LGBT POLITICS (3 credits)**

This course introduces students to the political struggle for Lesbian, Gay, Bisexual, and Transgender (LGBT) equal rights in the United States using a model of political empowerment, which may be applied for all minority or identity groups and social movements, generating operationalized measures of progress toward the loci of political power. (Cross-listed with PSCI 3100, WGST 3100, WGST 8105)

**PSCI 8106 MONEY IN AMERICAN POLITICS (3 credits)**

This course surveys facts and scholarship about two types of money in American politics: money as a political resource and money as policy. As a political resource, money is critically important for candidates to win elections, for interest groups to exert influence on government, and for policy expertise from civil society to inform government policy. As policy itself, in history or in modern times money has lain at the heart of policy debates like the creation of a national bank, gold and silver as legal tender, and financial regulations, as well as perennial governmental processes like federal budgeting and appropriations and the selection of congressional party leaders. This course trains students to comprehend, analyze, critically evaluate, and build on key research on these topics. (Cross-listed with PSCI 4100).

**Prerequisite(s):** PSCI 1100 or equivalent is a strongly recommended prerequisite.

**PSCI 8116 POLITICAL PSYCHOLOGY (3 credits)**

This course introduces students to the role of human thought, emotion, and behavior in politics through examination of the psychological factors that motivate political elites and the mass public. (Cross-listed with PSCI 4110, PSYC 4110, PSYC 8116)

**Prerequisite(s):** PSCI 1100 is recommended.

**PSCI 8120 SEMINAR IN LEADERSHIP (3 credits)**

This course introduces students to classical and contemporary scholarship on leadership theory, research, and application. Students gain a foundation in models of leadership, assess their own leadership styles, and learn to integrate what they learn in corporate, governmental, non-profit, or community organizations. (Cross-listed with CACT 8510)

**Prerequisite(s):** Not open to non-degree graduate students.

**PSCI 8126 PUBLIC OPINION AND POLLING (3 credits)**

This course introduces students to the origins, nature, measurement, and consequences of public opinion on policymaking. (Cross-listed with PSCI 4120)

**Prerequisite(s):** PSCI 1100

**PSCI 8135 WOMEN AND POLITICS (3 credits)**

This course introduces students to women's political participation, including holding elective office, socialization, the feminist movement and its opposition, and public policies with particular impact on women. The focus is on contemporary perspectives on women in American political ideas and behavior. (Cross-listed with PSCI 3130, WGST 3130, WGST 8135)

**PSCI 8136 BROWN V. BOARD OF EDUCATION (3 credits)**

Brown v. Board of Education traces the educational history of African Americans from segregation to desegregation to re-segregation. This course will review the legal cases before and after the Supreme Court's Brown decision, their aftermath, and the effects on educational policies and practices. (Cross-listed with BLST 8716, BLST 4710, PSCI 4130).

**Prerequisite(s):** Graduate standing or instructor permission

**PSCI 8145 LATINO/-A POLITICS (3 credits)**

This course introduces students to the dynamism and growth of the role of Latinos, as a group of political actors, in the United States. This course provides students with an exposure to and understanding of various concepts and dimensions of this phenomenon, including historical and contemporary Latino political thought and the efforts to increase political empowerment (representation and participation) and influence through grassroots, social, and political movements. (Cross-listed with PSCI 3140, LLS 3140, LLS 8145)

**PSCI 8146 CONSTITUTIONAL LAW: CIVIL RIGHTS (3 credits)**

This course introduces students to the history, principles, and judicial interpretation of key constitutional provisions and federal statutes regarding civil rights in the United States. (Cross-listed with PSCI 4140)

**Prerequisite(s):** PSCI 1100 or equivalent.

**PSCI 8150 SEMINAR IN CONSTITUTIONAL LAW (3 credits)**

This course introduces students to the Constitution and the Supreme Court's exercise of judicial review in relation to governmental powers, civil rights, and civil liberties.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSCI 8165 POLITICAL PARTIES (3 credits)**

This course introduces students to the origin, development, structure, and functions of political parties in the United States as political organizations, coalitions of voters, and governing coalitions that seek to hold office and influence public policy. (Cross-listed with PSCI 3160)

**Prerequisite(s):** PSCI 1100

**PSCI 8175 INTEREST GROUPS (3 credits)**

This course introduces students to the theories, formation, organization, and activities of interest groups and their impact on public policy, particularly through their role in campaigns and elections and lobbying. (Cross-listed with PSCI 3170)

**Prerequisite(s):** PSCI 1100

**PSCI 8176 CONSTITUTIONAL LAW: FOUNDATIONS (3 credits)**

This course introduces students to the principles, design and operation of the American constitutional system with emphasis on analysis of the Declaration of Independence, the Articles of Confederation, the proceedings of the Constitutional Convention, and the Federalist Papers. (Cross-listed with PSCI 4170)

**Prerequisite(s):** PSCI 1100 or junior standing or permission of instructor.

**PSCI 8185 CAMPAIGNS AND ELECTIONS (3 credits)**

This course introduces students to the evolution and modern application of campaigns and elections in the United States through examination of campaign management and campaign strategy in congressional and presidential elections. (Cross-listed with PSCI 3180)

**Prerequisite(s):** PSCI 1100

**PSCI 8186 CONSTITUTIONAL LAW: THE FEDERAL SYSTEM (3 credits)**

This course introduces students to American constitutional law as it relates to issues of federalism, the relation of the nation and the states, and separation of powers, the relation of the three branches of the national government. (Cross-listed with PSCI 4180)

**Prerequisite(s):** PSCI 1100

**PSCI 8196 CONSTITUTIONAL LAW: CIVIL LIBERTIES (3 credits)**

This course introduces students to the philosophy, history, and development of the personal liberties guaranteed by the Constitution including freedom of speech, religion, assembly, petition, and the right of privacy, primarily through examination of Supreme Court decisions. (Cross-listed with PSCI 4190)

**Prerequisite(s):** PSCI 1100

**PSCI 8200 SEMINAR IN FOREIGN POLICY AND NATIONAL SECURITY (3 credits)**

This course introduces students to classic and contemporary scholarship on the formulation and implementation of foreign and national security policy in the United States with an emphasis on engaging in thoughtful discussion and individual research.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSCI 8206 INTERNATIONAL RELATIONS OF EAST ASIA (3 credits)**

This course introduces students to the international politics of East Asia with an emphasis on the contemporary relations among major East Asian states (China, Japan, the Korean peninsula) and the United States. (Cross-listed with PSCI 4200)

**PSCI 8216 INTERNATIONAL RELATIONS OF THE MIDDLE EAST (3 credits)**

This course focuses on the international politics of the Middle East region, specifically looking at conditions for peace and causes of war. It examines how the international system, domestic politics, ideologies, and leaders influence international politics in the Middle East. (Cross-listed with PSCI 4210)

**PSCI 8220 SEMINAR ON INTERNATIONAL LEADERSHIP AND STRATEGY (3 credits)**

This course introduces students to international leadership and strategy theory, research, and application. (Cross-listed with CACT 8540).

**Prerequisite(s):** Not open to non-degree graduate students.

**PSCI 8225 INTERNATIONAL ORGANIZATIONS (3 credits)**

This course introduces students to the history, principles, structures, and processes developed to organize and legitimize peaceful reconciliation of the differences of nation-states and to advance their mutual interests in the contemporary global political and economic system. (Cross-listed with PSCI 3220)

**Prerequisite(s):** PSCI 2210 or equivalent is recommended.

**PSCI 8235 GENDER AND GLOBAL POLITICS (3 credits)**

This seminar introduces students to gender politics in comparative and international politics. (Cross-listed with PSCI 3230, WGST 3230, WGST 8235)

**PSCI 8245 THE POLITICS AND PRACTICE OF HUMAN RIGHTS (3 credits)**

This course introduces students to human rights issues across the globe and explores the theoretical foundations of human rights as well as human rights institutions and transitional justice. (Cross-listed with PSCI 3240)

**Prerequisite(s):** PSCI 2210 or equivalent is recommended.

**PSCI 8246 INTERNATIONAL CONFLICT RESOLUTION (3 credits)**

This course introduces students to different approaches to peace, their basic assumptions, and their application to current conflicts.. (Cross-listed with PSCI 4240)

**Prerequisite(s):** PSCI 2210 or equivalent is recommended.

**PSCI 8250 SEMINAR IN INTERNATIONAL RELATIONS (3 credits)**

This course introduces students to classic and contemporary scholarship on the issues, theories, and methodological approaches associated with the study of the nation-state system, international law, international organizations, international security, and globalization.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSCI 8255 GLOBAL SECURITY ISSUES (3 credits)**

This course introduces students to issues of national and international security that cross boundaries and threaten all countries including issues such as climate change, environmental deterioration, population and demographics, gender issues, disease and public health, the media, asymmetrical warfare, drugs/organized crime, and cyberthreats. (Cross-listed with PSCI 3250)

**Prerequisite(s):** PSCI 2210 or equivalent is recommended.

**PSCI 8256 INTELLIGENCE AND NATIONAL SECURITY (3 credits)**

This course introduces students to the United States intelligence services, and their relation to broader U.S. national security policy. (Cross-listed with PSCI 4250)

**Prerequisite(s):** PSCI 2210 or equivalent is recommended.

**PSCI 8265 UNITED STATES FOREIGN POLICY (3 credits)**

This course introduces students to the analysis of foreign and defense policy processes in the United States, including the role of the President, Congress, Departments of State and Defense, the intelligence community, and other actors/factors affecting policy formulation and implementation. (Cross-listed with PSCI 3260)

**Prerequisite(s):** PSCI 2210.

**PSCI 8266 INTERNATIONAL LAW (3 credits)**

The course introduces students to the general principles of international law, including the key actors, the creation and sources of international law, the interpretation of international law by courts and tribunals, and its enforcement. (Cross-listed with PSCI 4260)

**Prerequisite(s):** PSCI 2210 or equivalent is recommended.

**PSCI 8276 GLOBAL ENVIRONMENTAL POLITICS (3 credits)**

This course introduces students to issues of global environmental politics and policy, including the science behind issues such as climate change, how environmental policy is made at the national and international levels, and what role politics plays in determining environmental resource use. (Cross-listed with ENVN 4270, PSCI 4270)

**Prerequisite(s):** PSCI 2210 or equivalent is recommended.

**PSCI 8286 INTERNATIONAL RELATIONS OF LATIN AMERICA (3 credits)**

Analysis of the role of Latin American states in the international political arena. Emphasis upon developing, applying and testing an explanatory theory of international politics through the study of the inter-American system: the regional, institutional and ideological environment, power relations, policies and contemporary problems. (This course fulfills the department's international politics requirement). (Cross-listed with PSCI 4280, LLS 4280, LLS 8286)

**PSCI 8296 INTERNATIONAL DEVELOPMENT & SUSTAINABILITY (3 credits)**

This course introduces students to different concepts of international development through the lens of sustainability. The course explores a broad range of activities related to international development, including international aid, trade, philanthropy, interventions in conflict, peacebuilding, public health, human rights, social justice, and the environment. (Cross-listed with PSCI 4290, CACT 8306)

**Prerequisite(s):** PSCI 2210 or equivalent is recommended.

**PSCI 8300 SEMINAR IN POLITICAL THEORY (3 credits)**

This course introduces students to the history of political theory, from its origins in ancient Greece to its manifestations in contemporary thought. (Cross-listed with CACT 8200)

**Prerequisite(s):** Not open to non-degree graduate students.

**PSCI 8316 CLASSICAL POLITICAL THOUGHT (3 credits)**

This course introduces students to key works representative of premodern political thought. Authors examined may include Plato, Aristotle, Xenophon, Cicero, Augustine, and Aquinas. (Cross-listed with PSCI 4310).

**Prerequisite(s):** PSCI 2310 or equivalent is recommended

**PSCI 8326 EARLY MODERN POLITICAL THOUGHT (3 credits)**

This course introduces students to key works of the 16th through mid-18th centuries. Authors examined may include Machiavelli, Hobbes, Hume, Smith and Montesquieu. (Cross-listed with PSCI 4320)

**Prerequisite(s):** PSCI 2310 or equivalent is recommended

**PSCI 8336 LATE MODERN POLITICAL THOUGHT (3 credits)**

This course introduces students to key texts of the mid-18th through 19th centuries. Authors to be examined may include Rousseau, Burke, Mill, Tocqueville, Marx, and Nietzsche. (Cross-listed with PSCI 4330).

**Prerequisite(s):** PSCI 2310 or equivalent is recommended

**PSCI 8345 AMERICAN POLITICAL THOUGHT (3 credits)**

This course introduces students to the ideals, ideologies, identities, and institutions of American political thought from the country's origins to the present. Topics to be covered may include the political thought of the early American settlers and of the founding generation, the debates over the creation and implementation of the Constitution, the 19th century arguments over slavery, the rise of progressivism, the New Deal and its critics, and contemporary American conservatism and liberalism. (Cross-listed with PSCI 3340)

**Prerequisite(s):** PSCI 2310 is recommended.

**PSCI 8346 CONTEMPORARY POLITICAL THOUGHT (3 credits)**

This course introduces students to leading works of contemporary political thought, including Marx, Spencer, Dahl, Rawls, feminism, and rational choice. The theories, their interrelationships, the theorists, and the manifestations of these works will be discussed and analyzed. (Cross-listed with PSCI 4340)

**Prerequisite(s):** PSCI 2310 or equivalent is recommended

**PSCI 8356 DEMOCRACY (3 credits)**

A basic study of theory, practice and practitioners of political democracy, its roots, development, present application and problems and future. (Cross-listed with PSCI 4350)

**Prerequisite(s):** PSCI 2500 or equivalent is recommended.

**PSCI 8366 AUTHORITARIAN REGIMES (3 credits)**

An analysis of various types of authoritarian regimes, their differences from democratic governments, and the causes of their establishment, maintenance, and failure. (Cross-listed with PSCI 4360).

**PSCI 8376 GENERALS AND POLITICIANS: CIVIL-MILITARY RELATIONS (3 credits)**

This course introduces students to civil-military relations and military politics across the globe. (Cross-listed with PSCI 4370).

**Prerequisite(s):** PSCI 2500 or equivalent is recommended.

**PSCI 8476 SOUTH AFRICA & THE SOCIO POLITICS OF APARTHEID (3 credits)**

South Africa and the Socio Politics of Apartheid examines the lived experiences of South African people under the Apartheid system, and their long struggle against European colonial oppression and racial segregation throughout the 20th century. Students will examine the laws, tools, and strategies that developed and sustained Apartheid, and the anti-Apartheid movements and international pressure that led to its repeal and South African democratic elections. (Cross-listed with BLST 8476, BLST 4470, PSCI 4470, SOC 8476, SOC 4470).

**Prerequisite(s):** Graduate standing

**PSCI 8500 SEMINAR IN COMPARATIVE POLITICS (3 credits)**

This course introduces students to classic and contemporary scholarship on the issues, theories, and methodological approaches associated with the systematic and comparative study of nation-states and their political systems with an emphasis on engaging in thoughtful discussion and individual research.

**Prerequisite(s):** Not open to non-degree graduate students.



**PSCI 8505 EUROPEAN POLITICS (3 credits)**

This course introduces students to the political institutions, processes, and public policies of the states of Europe, including the European Union. (Cross-listed with PSCI 3500)

**PSCI 8506 GOVERNMENT AND POLITICS OF GREAT BRITAIN (3 credits)**

A comprehensive study of contemporary British politics and government. Emphasis will be focused on the formal institutions and informal customs and practices of the British political system. (Cross-listed with PSCI 4500).

**PSCI 8526 POLITICS OF FRANCE (3 credits)**

This course introduces students to the political heritage of France, contemporary political institutions and problems, and political and policy responses to these problems. (Cross-listed with PSCI 4520)

**PSCI 8556 POLITICAL VIOLENCE, INSURGENCY, AND TERRORISM (3 credits)**

This course is a survey on the types of violence used within a political context, focusing on its causes, forms and consequences. Specifically, this course details why and how violence occurs, and its impact on institutions and the people operating within that system. (Cross-listed with PSCI 4550).

**PSCI 8585 GOVERNMENT AND POLITICS OF RUSSIA AND THE POST-SOVIET STATES (3 credits)**

This course introduces students to the political cultures, institutions, processes, and public policies of Russia and the states of the former Soviet Union. (Cross-listed with PSCI 3580)

**PSCI 8626 ISLAM AND POLITICS (3 credits)**

This course introduces students to the interaction between religion and politics in the Muslim world, covering various political ideologies in the Muslim world and different experiences of Muslim-majority countries such as Saudi Arabia, Pakistan, Iran, Turkey, Indonesia, and Egypt. It will also analyze mainstream and radical transnational Islamic movements. (Cross-listed with PSCI 4620)

**PSCI 8645 GOVERNMENT AND POLITICS OF CHINA AND EAST ASIA (3 credits)**

This course introduces students to the political cultures, institutions, processes, policies, and other characteristics of China and neighboring states, with reference to other major powers engaged in the region. (Cross-listed with PSCI 3640)

**PSCI 8646 ASIAN POLITICS (3 credits)**

This course provides students with a broad understanding of Asian Politics with a focus on Northeast Asia (Mainland China, Japan, South Korea, North Korea, and Taiwan) and some emphasis on Southeast Asia (Singapore, Philippines, Thailand, and Vietnam). Students in this course will investigate these Asian societies and discuss their shared history as well as their common political themes, patterns, and connections. Students will explore state institutions, political parties, and state-society relations through the overarching themes of development, democracy, and nationalism. Specific themes include the economic rise of East Asian states, the emergence and development of democracy in the region, and the persistence of authoritarianism. By the end of the course, students will be able to describe, explain, and critically evaluate from a social science perspective the principal political features and processes of these Asian societies and develop their own research projects based on a topic discussed in the course. (Cross-listed with PSCI 4630).

**Prerequisite(s):** PSCI 2500 or junior standing or permission of the instructor.

**PSCI 8665 GOVERNMENT AND POLITICS OF JAPAN AND EAST ASIA (3 credits)**

This course introduces students to the political cultures, institutions, processes, policies and other characteristics of Japan and neighboring states, with reference to other major powers engaged in the region. (Cross-listed with PSCI 3660)

**PSCI 8685 GOVERNMENT AND POLITICS OF LATIN AMERICA (3 credits)**

This course introduces students to the political institutions, processes, and public policies of the states of Latin America. (Cross-listed with PSCI 3680, LLS 3680, LLS 8685)

**PSCI 8705 GOVERNMENT AND POLITICS OF THE MIDDLE EAST (3 credits)**

This course introduces students to government and politics in the contemporary Middle East, including considerations of state formation, authoritarianism and democratization, state-society relations, religion, culture, gender, and economy. (Cross-listed with PSCI 3700)

**PSCI 8716 COMPARATIVE INTERNATIONAL DEVELOPMENT AND INNOVATION (3 credits)**

Comparative International Development and Innovation will analyze the rise and fall of civilizations from a historical and theoretical perspective in a comparative manner. The course will address issues concerning political, social, economic, and environmental change in national, and international contexts. Among its major emphases are state institutions, economic growth, entrepreneurship, and the transformation of social structure and culture. (Cross-listed with PSCI 4710, ENTR 4710, ENTR 8716).

**PSCI 8776 POLITICAL SOCIOLOGY (3 credits)**

This course explores political sociology, focusing on political processes and power. Political sociologists investigate relationships between political institutions and various other institutions, including but not limited to the economy, education, media, and religion, and the impacts that these relationships have on society and the individuals that comprise the society. This course will explore the concepts, theories, and knowledge that comprise this field such as power, legitimacy, the state, networks, stratification, and collective action. (Cross-listed with PSCI 4770, SOC 4770, SOC 8776).

**Prerequisite(s):** Graduate standing

**PSCI 8826 POLITICS AND FILM (3 credits)**

This course introduces students to the analysis of politics and film, focusing on how politics is portrayed in film and the politics of film making. (Cross-listed with PSCI 4820)

**PSCI 8900 READINGS IN POLITICAL SCIENCE (1-3 credits)**

This course provides students an opportunity to study an advanced and specialized subject matter in the field of political science not covered in existing courses. The student must be capable of pursuing a highly independent course of study, which must be approved in consultation with the instructor in advance. This course may be repeated for different topics up to a maximum of six credit hours.

**Prerequisite(s):** Permission of graduate adviser

**PSCI 8910 POLITICAL SCIENCE INTERNSHIP (3 credits)**

This course offers students an opportunity to experience the resolution of public issues through direct involvement in career-oriented policy organizations. The host organization must be approved in advance in consultation with the internship coordinator. This course may be repeated for a maximum of six credit hours.

**Prerequisite(s):** Permission of instructor.

**PSCI 8920 SEMINAR IN SPECIAL TOPICS IN POLITICAL SCIENCE (1-3 credits)**

This course introduces students to an advanced and specialized subject matter in the field of political science not covered in existing courses. This course may be repeated for different topics up to a maximum of twelve credit hours.

**Prerequisite(s):** Permission of graduate advisor.

**PSCI 8926 ADVANCED SPECIAL TOPICS IN POLITICAL SCIENCE (1-3 credits)**

This course introduces students to an advanced and specialized subject matter in the field of political science not covered in existing courses. This course may be repeated for different topics up to a maximum of six credit hours. (Cross-listed with PSCI 4920)



**PSCI 8950 GRADUATE PROGRAM COMPREHENSIVE ASSESSMENT (0 credits)**

This zero-credit-hour course is used to assess the knowledge and skills that are imparted by the Political Science Graduate Program to its students. Graduating students must enroll in the class and take the comprehensive assessment, which will test how students can synthesize knowledge in three subfields of Political Science. The students will get pass/fail grades for the course.

**Prerequisite(s):** At least 21 credit hours taken, at least 3 subfield seminars taken, and permission of Graduate Program Chair. Not open to non-degree graduate students.

**PSCI 8980 RESEARCH IN POLITICAL SCIENCE (3 credits)**

This course provides students an opportunity to conduct research in a specialized subject matter in the field of political science. The student must be capable of pursuing a highly independent course of study, which must be approved in consultation with the instructor in advance. This course may be repeated for different topics up to a maximum of six credit hours.

**Prerequisite(s):** Permission of graduate advisor, not open to non-degree graduate students.

**PSCI 8990 THESIS (3-6 credits)**

A research project, written under the supervision of a graduate adviser in the Department of Political Science, in which the students establish their capacity to design, conduct and complete an original, independent, scholarly investigation of a high order. The research topic and the completed project must be approved by the student's departmental committee.

**Prerequisite(s):** Permission of graduate program chair. Not open to non-degree graduate students.

## Psychology (PSYC)

### Psychology Graduate Courses

**PSYC 8000 THE PROFESSION OF PSYCHOLOGY (0 credits)**

Required non-credit course for graduate students in psychology. Intended to familiarize the beginning graduate student with the profession of psychology including such topics as ethics, professional organizations, job and educational opportunities, use of reference materials, licensing and certification and other relevant material.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSYC 8016 HISTORY OF PSYCHOLOGY (3 credits)**

A study of the origins, development and nature of psychology and its relation to external events; emphasis on the period since 1875. (Cross-listed with PSYC 4010)

**Prerequisite(s):** Admission to graduate program in Psychology or permission of instructor. Not open to non-degree students or students in other departments or programs.

**PSYC 8116 POLITICAL PSYCHOLOGY (3 credits)**

This course introduces students to the role of human thought, emotion, and behavior in politics through examination of the psychological factors that motivate political elites and the mass public. (Cross-listed with PSCI 4110, PSCI 8116, PSYC 4110)

**Prerequisite(s):** PSCI 1100 is recommended.

**PSYC 8156 AFRICAN AMERICAN PSYCHOLOGY (3 credits)**

African American Psychology traces the psychological history of Africans and African Americans from self-attributes and identity, through race and racism, to cognition, learning, and language. This course will review concepts relevant to understanding the psychology of African Americans, methodological and research issues, and best practices. (Cross-listed with PSYC 4150, BLST 4150, BLST 8156).

**Prerequisite(s):** Graduate standing

**PSYC 8166 NEUROPHARMACOLOGY (3 credits)**

Neuropharmacology will introduce students to ligand-receptor interactions and their effects on behavior, cognition, and development. This course will characterize the molecular structure of ligands and how these small molecules or biologics affect central nervous system receptors and transporters. Students will learn about structure-activity relationships and principles of pharmacology: distribution, metabolism, pharmacokinetics, and elimination) and explore the historical milestones in drug development. We'll also discuss the dynamic actions of drugs of abused drugs and the mechanisms of action. For undergraduate Neuroscience Majors, the course counts as a Neuroscience Block 1. (Cross-listed with PSYC 4160, NEUR 4160, NEUR 8166).

**Prerequisite(s):** Graduate standing

**PSYC 8250 FAMILY ANALYSIS AND TREATMENT (3 credits)**

This courses covers theories and techniques for family therapy, with special reference to adapting individual and group therapeutic, as well as consultation, principles for family interventions. Case analyses and evaluation methods are considered.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 8256 LIMITS OF CONSCIOUSNESS (3 credits)**

Consciousness is often considered one of the last great mysteries of science. Despite our internal experience of pleasures, sights, sounds, and pains, it is a largely open question why we have these experiences and what makes them happen. This upper level seminar class examines the philosophy, psychology, and neuroscience of consciousness. Topics covered will include neuroscientific theories of consciousness, unconscious perception, the relationship between attention and consciousness, animal consciousness, and detecting consciousness in the persistent vegetative state. (Cross-listed with PSYC 4250, PHIL 4250, PHIL 8256)

**Prerequisite(s):** PSYC 1010; or 6 hours in Philosophy. Not open to non-degree graduate students.

**PSYC 8276 ANIMAL BEHAVIOR (3 credits)**

Behavior of diverse animals for the understanding of the relationships between nervous integration and the behavior manifested by the organism, as well as the evolution and adaptive significance of behavior as a functional unit. (Cross-listed with PSYC 4270, BIOL 4270, BIOL 8276)

**Prerequisite(s):** BIOL 1750 and PSYC 1010 or permission of instructor, junior-senior.

**PSYC 8286 ANIMAL BEHAVIOR LABORATORY (3 credits)**

Laboratory and field studies of animal behavior with an ethological emphasis. Classical laboratory experiences and independent studies will be conducted. (Cross-listed with PSYC 4280, BIOL 4280, BIOL 8286)

**Prerequisite(s):** PSYC 4270 or BIOL 4270 or PSYC 8276 or BIOL 8273 and not open to non-degree graduate students.

**PSYC 8296 NEUROETHOLOGY (3 credits)**

In the field of Neuroethology a major goal is to understand the neural bases of animal behaviors in a natural context. In this course students will investigate how behaviors are generated and modulated by the nervous system in organisms ranging from insects to mammals. We will explore the neural mechanisms underlying a variety of animal behaviors as they interact with their natural environment ranging from sensory perception of the world (e.g. echolocation, electrolocation), to locomotor movements (e.g. flying, swimming), to more complex behaviors (e.g. learning, memory). (Cross-listed with BIOL 4290, BIOL 8296, NEUR 4290, NEUR 8296).

**Prerequisite(s):** Graduate Standing. Not open to non-degree graduate students.

**PSYC 8316 PSYCHOLOGICAL AND EDUCATIONAL TESTING (3 credits)**

The use of standardized tests in psychology and education is considered with special regard to their construction, reliability and validity. (Cross-listed with PSYC 4310)

**Prerequisite(s):** PSYC 1010 and junior/senior and not open to non-degree graduate students.

**PSYC 8326 HORMONES & BEHAVIOR (3 credits)**

In this course, students will examine the interaction between hormones, chemical messengers released from endocrine glands, and behavior in both human and animal systems. Methods for studying hormonal issues on behavior will be addressed. This course will provide students in psychology, biology, and related disciplines an understanding of how hormones affect sensory processing, motor activities, and processing of information in the central nervous system. (Cross-listed with PSYC 4320, BIOL 4320, BIOL 8326)

**Prerequisite(s):** Must be admitted to a graduate level PSYC program or permission of department.. Not open to non-degree graduate students.

**PSYC 8336 SOCIAL NEUROSCIENCE (3 credits)**

This course will evaluate the biological substrates of sociality and social behavior, and examine how brain events bias social behavior and cognition, as well as how social behavior and cognition influence brain functioning. We will explore the neural mechanisms that inform social behavior and explain our ability to recognize, understand and interact with others. Cutting edge questions on concepts such as love, trust, empathy and prejudice will also be explored. (Cross-listed with NEUR 8336, NEUR 4330).

**Prerequisite(s):** Graduate status or permission of Instructor. Not open to non-degree graduate students.

**PSYC 8446 ABNORMAL PSYCHOLOGY (3 credits)**

A course designed to examine the aberrant behavior of individuals. Symptoms, dynamics, therapy and prognosis of syndromes are considered. (Cross-listed with PSYC 4440)

**Prerequisite(s):** PSYC 1010. Not open to non-degree graduate students.

**PSYC 8456 PERSONALITY THEORIES (3 credits)**

A comparative approach to the understanding and appreciation of personality theories considering history, assertions, applications, validations and prospects. (Cross-listed with PSYC 4450)

**Prerequisite(s):** Not open to non-degree graduate students.

**PSYC 8476 MENTAL HEALTH AND AGING (3 credits)**

The goal of this courses is to survey the mental health needs of older adults. Consideration is given to identifying both positive mental health and pathological conditions. Treatment interventions effective with older adults and their families are also discussed. (Cross-listed with PSYC 4470, GERO 4470, GERO 8476)

**PSYC 8500 PROFESSIONAL, LEGAL, AND ETHICAL FOUNDATIONS OF SCHOOL PSYCHOLOGY (3 credits)**

This course covers the role description and job activities of a school psychologist, as well as theories, assessment and intervention techniques, certification requirements, employment opportunities, public policy, legislation, and ethics relevant to school psychology. School-based field experiences will also be included in the course.

**Prerequisite(s):** Must be admitted to a graduate level PSYC program or permission of dept. Not open to non-degree graduate students.

**PSYC 8520 FOUNDATIONS OF ASSESSMENT (3 credits)**

Course content covers traditional psychometric concepts (e.g., norms, reliability, validity) and their application to various areas of human behavior that are assessed (e.g., cognitive ability, personality, achievement). Clinical considerations are applied to how assessment information is integrated into a problem-solving process.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 8526 PSYCHOLOGY OF LANGUAGE (3 credits)**

Language is what makes us human. It influences our thoughts and affects our lives in many ways. In this class, topics include the distinctive features of human language as a system of communication, the understanding and production of speech, reading and spelling, language development, bilingualism, language disorders, and how our social and cultural environment can influence how language is used. (Cross-listed with PSYC 4520)

**Prerequisite(s):** Senior level or graduate level student or permission of the instructor. Not open to non-degree graduate students.

**PSYC 8530 EARLY CHILDHOOD ASSESSMENT (3 credits)**

This course is an introduction to the assessment of children during early development including infancy, toddler, preschool and early primary ages. Assessment will be discussed as it relates to problem-solving and data-based decision making (i.e., diagnosis, treatment, program evaluation). Students will learn the principles of working with young children and their families and how these principles will be used in conducting valid and reliable assessments that, in turn, lead to appropriate interventions.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 8536 CULTURAL PSYCHOLOGY (3 credits)**

This course will provide an overview of the cultural, community and ecological factors that play a role in how people perceive their environments. The goal is to investigate the ways in which culture affects individual behaviors, attitudes and cognitions. It may be easy to tell that two cultures are different, but identifying exactly what is meant - and all that is encompassed - when speaking about "culture" can be much more difficult. Culture can include everything from gender constructs and race/ethnicity to the effects of new technologies. All of these aspects of culture affect individuals' psychological make-up and behavior. Although psychology has largely developed from a Western tradition, attention to research from non-Western perspectives will also be emphasized. This course supports the Cultural and Global Analysis concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with PSYC 4530, CACT 8106).

**Prerequisite(s):** Enrollment in MA in Critical & Creative Thinking program or by permission of the instructor.

**PSYC 8540 SCHOOL AGE ASSESSMENT (3 credits)**

This course covers data-based decision-making as it applies to schools. Students will learn and practice the skills of reviewing records, interviewing, systematically observing, and testing. They will be exposed to the following types of assessments: academic, behavior, curriculum-based, intellectual, social-emotional, and screening measures.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 8550 PSYCHOTHERAPEUTIC INTERVENTIONS (3 credits)**

This course provides graduate students knowledge in the application of evidence-based therapeutic interventions that can be utilized with children and adolescents in school, home, and family settings. Various approaches and techniques are presented along with supporting research. Observation and participation in clinical cases may be arranged.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 8576 BEHAVIOR ANALYSIS AND INTERVENTIONS (3 credits)**

Introduction to experimental methodology, rationale and research literature of changing behavior through behavior modification techniques. Particular attention will be paid to methodological concerns regarding single subject design, ethical considerations and ramifications of behavior intervention with children and youth. (Cross-listed with PSYC 4570)

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 8590 PSYCHOLOGY OF EXCEPTIONAL CHILDREN (3 credits)**

The content of this course will focus on children who are identified as "exceptional"; in terms of behavioral, cognitive, and learning problems. Exceptionality in this sense includes students who are in need of preventative and/or intervention-based services. The topics will be approached from a multidisciplinary perspective and emphasis will be placed on utilizing a response to intervention approach in working with exceptional individuals. The service-learning component of the course will require students to learn about the educational environment by spending time in an elementary classroom, consulting with school staff and addressing the educational needs of students.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 8636 ORGANIZATIONAL PSYCHOLOGY (3 credits)**

This is a survey course which will cover the major concepts, theories and empirical research related to organizational psychology. Specific topics will include: work motivation, leadership, decision making and job satisfaction as well as more recent trends such as cultural diversity, work teams, work-family and quality issues. (Cross-listed with PSYC 4630)

**Prerequisite(s):** Admission to a graduate program or graduate certificate program. Not open to non-degree graduate students.

**PSYC 8646 PERSONNEL PSYCHOLOGY (3 credits)**

A survey of psychological principles, theories and research related to personnel issues. Course includes discussion of personnel selection, performance appraisal, recruitment, training and health and safety. (Cross-listed with PSYC 4640)

**Prerequisite(s):** Admission to a graduate program or graduate certificate program. Not open to non-degree graduate students.

**PSYC 8656 CREATIVITY AND INNOVATION IN ORGANIZATIONS (3 credits)**

To provide a discussion of the antecedents of individual and organizational creativity, including measurement, models, characteristics of the individual and the environment that facilitate creativity and innovation in an organizational setting. Students in this course will be able to understand the research literature related to creativity and innovation and apply the findings to improve critical and creative thinking, implementation of creative ideas, and development of creative teams and organizations. This course supports the Organizational Science and Leadership concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with PSYC 4650, CACT 8506)

**PSYC 8700 ETHICS AND LAW FOR PSYCHOLOGY AND APPLIED BEHAVIOR ANALYSIS (3 credits)**

This course provides graduate students with advanced knowledge of ethical codes, legal statutes, and case law that guide the profession of psychology and related applied fields with particular attention to the practice of applied behavior analysis. The primary emphasis of the class is on clinic-, community-, and school-based practice with children and adolescents.

**Prerequisite(s):** Must be admitted to a graduate level PSYC program or permission of instructor. Not open to non-degree graduate students.

**PSYC 8800 GRADUATE SEMINAR IN THE AGING BRAIN (3 credits)**

The Graduate Seminar in the Aging Brain is a graduate level gerontology course focused on understanding the changes to the brain due to normal aging and aging-related diseases. This is an elective course for the Gerontology graduate program at UNO. The content matter of this course also makes it a relevant fit for graduate students from disciplines such as biology, psychology, geriatric medicine, nursing, social work, and exercise science. By the end of the course, students should have a thorough understanding of the changes to the brain in healthy aging and aging-related disease that affect cognitive and emotional functioning. (Cross-listed with GERO 8800).

**Prerequisite(s):** Graduate level standing

**PSYC 8806 LAW & PSYCHOLOGY: ETHICS, RESEARCH & SERVICE (3 credits)**

This course presents legal principles relevant to all psychological specialties, with special reference to mental health services. Ethical reasoning and the APA ethics code are considered. (Cross-listed with PSYC 4800)

**Prerequisite(s):** Must be admitted to a graduate level PSYC program or permission of instructor. Not open to non-degree graduate students.

**PSYC 8850 SOCIAL JUSTICE, ADVOCACY, AND ACTION IN SCHOOL PSYCHOLOGY (3 credits)**

Social Justice, Advocacy, and Action is designed for graduate students in school psychology and related fields. The course is designed to provide a social justice framework to all aspects of the role of a school psychologist. To that end, students will learn social justice theories and research with specific attention to minoritized and oppressed groups. Students will engage in self-exploration of personal values and biases that influence our practice. They will learn about social structures of power and oppression, socio-cultural diversity, and the impact in our schools. The overarching course goal is in an increased ability to advocate for and engage in applying socially just work in educational settings. The content of this course is specific to School Psychology.

**Prerequisite(s):** Admission to a graduate program in psychology. Not open to non-degree graduate students.

**PSYC 8896 GENES, BRAIN, AND BEHAVIOR (3 credits)**

This course will evaluate the complex interaction between an organism's genome and neural activity pattern in the nervous system as related to behavior. In this course students will explore how changes in gene expression (allelic variants, epigenetics, differential regulation) and gene networks within neural tissue can reciprocally influence behaviors such as communication, foraging, reproduction, and cognition. (Cross-listed with NEUR 4890, NEUR 8896, BIOL 4890, BIOL 8896).

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**PSYC 8900 PROBLEMS IN PSYCHOLOGY (1-6 credits)**

A faculty-supervised research project, involving empirical or library work and oral or written reports.

**Prerequisite(s):** Written permission of department. Not open to non-degree graduate students.

**PSYC 8950 PRACTICUM FOR MASTER'S STUDENTS (1-6 credits)**

Faculty-supervised experience in industry or business designed to bridge the gap between the classroom and a job, emphasizing use of previously acquired knowledge in dealing with practical problems for master's students.

**Prerequisite(s):** Written permission of your practicum committee. Not open to non-degree graduate students.

**PSYC 8970 MASTER'S LEVEL PRACTICUM IN SCHOOL PSYCHOLOGY (1-6 credits)**

Faculty-supervised experience designed to provide experience in academic and behavioral assessment and intervention with children, and consultation with parents and school personnel.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 8980 PRACTICUM IN DEVELOPMENTAL PSYCHOLOGY (1-6 credits)**

Faculty-supervised experience in a setting designed to provide a practical understanding of theoretical concepts of human development. Emphasizes direct observation and or personal interaction as a means of training, and can be directed toward various populations within the developmental life span (e.g., infants, preschoolers, middle childhood, adolescents, adults, aged persons).

**Prerequisite(s):** PSYC 9560 and permission of Developmental Psychology Area Committee. Not open to non-degree graduate students.

**PSYC 8990 THESIS (1-6 credits)**

Independent research project written under supervision of a faculty committee. May be repeated up to a total of six hours.

**Prerequisite(s):** Written permission of your thesis committee. Not open to non-degree graduate students.

**PSYC 9010 PROSEMINAR: STATISTICAL METHODS I (3 credits)**

The purpose of this course is to introduce students to the statistical concepts of correlation and regression. The course will cover basic understanding of these techniques, their applications, and interpretations of results.

**Prerequisite(s):** Graduate standing and an undergraduate course in basic statistics which included an introduction to correlation and linear regression. Not open to non-degree graduate students.

**PSYC 9020 PROSEMINAR: STATISTICAL METHODS II (3 credits)**

An advanced approach to experimental design and inferential statistics using the analysis of variance models.

**Prerequisite(s):** A course in basic statistics which included an introduction to analysis of variance. Not open to non-degree graduate students.

**PSYC 9030 SEMINAR: TOPICS IN INDUSTRIAL ORGANIZATIONAL PSYCHOLOGY (3 credits)**

A topic area within field of Industrial Organizational Psychology will be explored in depth.

**Prerequisite(s):** Admission to Industrial Organizational graduate program and permission of instructor. Not open to non-degree graduate students.

**PSYC 9040 PROSEMINAR LEARNING (3 credits)**

A comprehensive and intensive coverage of experimental literature on learning in humans and animals.

**Prerequisite(s):** Permission of instructor. Not open to non-degree graduate students.

**PSYC 9050 APPLIED BEHAVIOR ANALYSIS IN EDUCATION (3 credits)**

The purpose of this course is to familiarize students with knowledge and skills in educational systems, educational assessment, educational interventions, and problem solving models with an emphasis on applied behavior analysis.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSYC 9070 PROSEMINAR: COGNITIVE PSYCHOLOGY (3 credits)**

This course will be a comprehensive overview of the field of cognitive psychology including the topics of attention and performance, memory, problem solving, and language. In addition, there will be a more in-depth coverage of selected issues.

**Prerequisite(s):** Graduate standing or permission of instructor. Not open to non-degree graduate students.

**PSYC 9090 PSYCHOMETRIC THEORY (3 credits)**

Study of theoretical and practical problems related to the development and use of psychological measures and research designs covering such topics as scaling, test development, reliability, validity, interpretation of results and generalizability.

**Prerequisite(s):** PSYC 3130 or equivalent. Must be enrolled as a psychology graduate student. Not open to non-degree graduate students.

**PSYC 9100 SMALL N RESEARCH DESIGNS (3 credits)**

This course uses applications of research methodology that involve direct observation and single-subject designs to identify evidence-based practices that address clinical problems experienced by individuals across a variety of settings. Topics covered include behavioral assessment techniques, graphing data, single subject experimental designs, and consumer satisfaction with interventions.

**Prerequisite(s):** Must be admitted to a graduate level PSYC program or permission of instructor.

**PSYC 9120 MULTIVARIATE STATISTICAL ANALYSIS (3 credits)**

An examination of statistical techniques for describing and analyzing multivariate data commonly collected in behavioral research. Analytic techniques derived from general linear model will be considered, focusing on proper interpretation and use. The course is intended for doctoral students in psychology and (selectively) for advanced masters students in behavioral sciences.

**Prerequisite(s):** PSYC 9090, PSYC 9010 and PSYC 9020 or permission of instructor. Not open to non-degree graduate students.

**PSYC 9130 APPLICATIONS OF ADVANCED STATISTICS IN PSYCHOLOGY (3 credits)**

This course covers a variety of statistical tools that may be used to answer research questions for group designs. A primary focus of the class is the application of statistical tools to psychology research and practice.

**Prerequisite(s):** Admission to a graduate program in Psychology. Not open to non-degree graduate students.

**PSYC 9140 ASSESSMENT AND TREATMENT OF AUTISM SPECTRUM DISORDERS (3 credits)**

The purpose of this course is to familiarize students with the diagnosis, assessment, and treatment of autism spectrum disorders (ASD). (Cross-listed with SPED 9140).

**Prerequisite(s):** Not open to non-degree graduate students.

**PSYC 9150 EXPERIMENTAL ANALYSIS OF BEHAVIOR (3 credits)**

The purpose of this course is to familiarize students with basic behavior analytic research tactics and their application to the study of human and animal behavior. The course will include an in-depth evaluation of core principles of behavior analysis on an experimental level.

**Prerequisite(s):** PSYC 9040, PSYC 9100, or permission of instructor. Not open to non-degree graduate students.

**PSYC 9160 BEHAVIOR ANALYTIC APPROACHES TO ORGANIZATIONAL CHANGE AND HUMAN PERFORMANCE IMPROVEMENT (3 credits)**

The purpose of this course is to prepare students to apply principles of behavior analysis within complex systems and organizations. The course will cover methods of assessment, analysis, and intervention to solve human performance problems within organizations and at the individual level. The course will prepare students for leadership roles within human service organizations.

**Prerequisite(s):** PSYC 9040, PSYC 9100, or permission of instructor. Not open to non-degree graduate students.

**PSYC 9230 PROSEMINAR: BEHAVIORAL NEUROSCIENCE (3 credits)**

A study of the biological substrates of behavior with emphasis upon neuroanatomy, neurophysiology and neuropharmacology.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSYC 9240 PROSEMINAR: EVOLUTIONARY PSYCHOLOGY (3 credits)**

A comprehensive overview of behavioral biology including topics of evolution and behavior, behavioral ecology, physiology and genetics of behavior, and learning.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSYC 9320 SEMINAR IN PROGRAM EVALUATION (3 credits)**

This course is intended to help advanced graduate students in the applied social sciences understand the literature and conduct evaluation research. The history of program evaluation and philosophies manifest in evaluation research are reviewed, alternative evaluation models are discussed, and relevant methodological and practical issues such as quasi-experimental design and utilization are explored.

**Prerequisite(s):** Students should have prior graduate-level course work or experience in research design and statistics in the applied social sciences. Not open to non-degree graduate students.

**PSYC 9421 POSITIVE ORGANIZATIONAL PSYCHOLOGY AND LEADERSHIP (3 credits)**

This course is a graduate seminar on organizational psychology and leadership that focuses on the understanding and critical analysis of theory and practice pertaining to individual functioning at work. Positive organizational psychology theories and practices will provide the overarching framework in understanding potential solutions to challenges and problems facing leaders and their employees. (Cross-listed with CACT 8520)

**Prerequisite(s):** Graduate standing or permission of instructor.



**PSYC 9430 PROSEMINAR: PERSONALITY (3 credits)**

A course considering the effects of personality variables on behavior. A historical, theoretical, psychometric and experimental approach will be emphasized.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSYC 9440 PROSEMINAR: SOCIAL PSYCHOLOGY (3 credits)**

Examination of theories, research findings and controversies in social psychology. Topics will include socialization; person perception; interpersonal attraction, leadership and group effectiveness; attitudes, attitude measurement, and attitude change; intergroup relations, power and social influence. New topics will be added as they become part of the research interests of social psychologists.

**Prerequisite(s):** Not open to non-degree graduate students.

**PSYC 9460 SEMINAR IN AGING AND HUMAN BEHAVIOR (3 credits)**

This course will examine in detail age-related changes in psychological processes and explore the implications of these changes for behavior. The course is intended primarily for graduate students in psychology and gerontology. (Cross-listed with GERO 9460)

**Prerequisite(s):** Graduate standing in gerontology or psychology.

**PSYC 9470 PRACTICUM IN APPLIED BEHAVIOR ANALYSIS (1-12 credits)**

The practicum in applied behavior analysis provides students with intensive supervised experience providing behavior analytic services to improve the well-being of children and their families. Students will be assigned to practicum sites based on their respective interests, career goals, and availability of positions.

**Prerequisite(s):** One semester of coursework in the Applied Behavior Analysis Master's degree program or admission to the Applied Behavior Analysis Certificate program. Not open to non-degree graduate students.

**PSYC 9500 SOCIOEMOTIONAL DEVELOPMENT (3 credits)**

This seminar is designed to provide an in-depth examination of the research literature on socioemotional development (emotional development that influences social behavior & development), with particular emphasis on both classic issues and current topics of debate. The course topics cover issues of importance in infancy, childhood, and adolescence. Research methods, as they apply to socioemotional development, will be emphasized throughout the course.

**Prerequisite(s):** Graduate standing and PSYC 9560. Not open to non-degree graduate students.

**PSYC 9510 RESEARCH METHODS IN DEVELOPMENTAL PSYCHOLOGY (3 credits)**

This course is designed to provide graduate students in developmental psychology and school psychology with the necessary skills to enable them to frame a research question and to design a study to answer that question. In addition, students will become familiar with methodologies for specialized areas within developmental psychology. Research ethics is a major component in the course.

**Prerequisite(s):** PSYC 9560. Not open to non-degree graduate students.

**PSYC 9530 COGNITIVE DEVELOPMENT (3 credits)**

This course covers contemporary issues in theory and research concerning the development of processes by which environmental information is perceived, attended to, stored, transformed and used. Both Piagetian and information processing orientations will be emphasized.

**Prerequisite(s):** PSYC 9560. Not open to non-degree graduate students.

**PSYC 9550 PSYCHOSOCIAL DEVELOPMENT (3 credits)**

A seminar focusing on research methods, theory and the empirical literature as they apply to social and personality development across the life span. All students will be expected to design and conduct a mini-observational experimental study in some specific area of social and personality development.

**Prerequisite(s):** Graduate standing and PSYC 9560. Not open to non-degree graduate students.

**PSYC 9560 PROSEMINAR: DEVELOPMENTAL PSYCHOLOGY (3 credits)**

A survey of developmental processes across the life-span, with a particular emphasis on the interface of biological, cognitive and social influences. Theories of human development and issues pertaining to developmental processes are examined. The primary focus in the course is on the research literature pertaining to developmental psychology. Special emphasis is given to the role of context in development and to the topics of research methods, multicultural factors in development and social policy.

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**PSYC 9570 CONCEPTUAL FOUNDATIONS OF BEHAVIOR ANALYSIS (3 credits)**

This course is intended to provide graduate students more in-depth exposure to the philosophy and science of applied behavior analysis. Emphasis throughout the class will be on the intersection of the philosophy of behaviorism, the science of behavior analysis and the application of behavior analysis. It is assumed that students will have adequate understanding of basic principles of applied behavior analysis before taking the course.

**Prerequisite(s):** A minimum of one course in learning theory (PSYC 8560, PSYC 8576, PSYC 9040, or equivalent) or permission of instructor. Not open to non-degree graduate students.

**PSYC 9610 MOTIVATION & MORALE (3 credits)**

A course focusing on theory and research in the areas of work motivation, work behavior and job satisfaction. Emphasis is placed on such topics as expectancy theory, job redesign, leadership, absenteeism, turnover, goal setting and behavior modification.

**Prerequisite(s):** Admission into industrial/organizational psychology graduate program and permission of instructor. Not open to non-degree graduate students.

**PSYC 9620 TRAINING AND DEVELOPMENT (3 credits)**

This course will review theory and research relevant to training and organizational development, with emphasis on diagnosis, design, implementation, and evaluation. Practical concerns associated with intervention will be addressed.

**Prerequisite(s):** Admission into industrial/organizational psychology graduate program and PSYC 9090, PSYC 9010, and PSYC 9020. Not open to non-degree graduate students.

**PSYC 9630 LEADERSHIP THEORIES AND RESEARCH (3 credits)**

The purpose of this course is to provide the student with a thorough review of the theories and research in the area of leadership. Theories reviewed will be those that focus on the role of the individual in effective leadership, the role of the situation, and the role of the followers. Special attention will be given to the psychological theories of leadership. The application of leadership research and theory to areas such as selection and training will also be reviewed.

**Prerequisite(s):** Admission into the psychology graduate program or graduate standing and instructor permission. Not open to non-degree graduate students.



**PSYC 9640 PROBLEM SOLVING & DECISION MAKING (3 credits)**

The primary objective of the course is to acquaint students with some of the major conceptual, methodological, and measurement issues within the field of problem solving and decision making. Due to the scope of this field, the course will focus on the psychological research on individual decision making, with special emphasis on the cognitive and motivational processes underlying problem solving and decision making. The second major objective of the course is to encourage students to creatively integrate and apply decision making approaches and findings to traditional areas of concern to the industrial-organizational psychologist (e.g., employee selection, performance appraisal, training, leadership, motivation). The third objective is to hone students' critical thinking skills and their ability to present their ideas in a clear and coherent manner using oral and written formats.

**Prerequisite(s):** Must be admitted to a graduate level PSYC program or permission of instructor. Not open to non-degree graduate students.

**PSYC 9650 RESEARCH METHODS IN PSYCHOLOGY (3 credits)**

A course designed to allow students to integrate and extend their knowledge and understanding of psychological research. Students will develop skills in writing research proposals, conducting research, and preparing manuscripts for publications.

**Prerequisite(s):** PSYC 9010 or PSYC 9020. Not open to non-degree graduate students.

**PSYC 9660 CRITERION DEVELOPMENT AND PERFORMANCE APPRAISAL (3 credits)**

An in-depth examination of the fundamentals of personnel psychology including job analysis, criterion development and performance measurement and appraisal in organizations. Practical experience in the application of techniques and procedures is emphasized through group and individual projects in organizational settings.

**Prerequisite(s):** Admission to industrial/organizational psychology graduate program and PSYC 9090 (may be taken concurrently). Not open to non-degree graduate students.

**PSYC 9670 PERSONNEL SELECTION (3 credits)**

An exploration of current theory and practice in personnel selection. Problem solving strategies are emphasized through the design, analysis, and interpretation of selection research and the implementation of selection programs consistent with Equal Opportunity Guidelines and federal law.

**Prerequisite(s):** Admission to industrial organizational psychology graduate program, PSYC 9660. Not open to non-degree graduate students.

**PSYC 9680 GROUPS AND TEAMS (3 credits)**

Teamwork is hard but inevitable; individuals must be able to work effectively in a team. Teamwork is only becoming more difficult and complex as organizations use technology to communicate across space and time, bringing together culturally and functionally diverse, physically distributed team members who are members of multiple teams or systems of teams. This course explores what it means to be a good team member, to help others work effectively in teams, and to diagnose and solve teamwork problems. Challenges such as communication, decision-making, conflict resolution, and leadership are explored.

**Prerequisite(s):** Admission to industrial organizational psychology graduate program and PSYC 9660. Not open to non-degree graduate students.

**PSYC 9750 ASSESSMENT AND INTERVENTION FOR ENGLISH LEARNERS (3 credits)**

This course focuses on assessment and intervention practices for culturally and linguistically diverse (CLD) families and students in K-12 classrooms. Emphasis is placed on the understanding of the impact culture has on learning and school performance. Students will engage in self-exploration of personal values and biases that influence school-based practice. Furthermore, the problem solving process and the practical study of instruments and procedures for assessment of English Learners, including formal and informal methods of evaluation, will be reviewed. This course will also cover the administration of linguistically diverse tests, the interpretation of results considering the students' linguistic and cultural backgrounds, and the ethical and appropriate recommendations that follow. The overarching course goal is in an increased ability to advocate for and engage in applying socially just work in educational settings.

**Prerequisite(s):** Students must be enrolled in a graduate program to take this course. Not open to non-degree graduate students.

**PSYC 9770 SCHOOL CRISIS INTERVENTION STRATEGIES AND TECHNIQUES (3 credits)**

This course will present approaches to school-based crisis intervention. The course includes definitions and characteristics of a crisis, a brief history of crisis intervention and associated theories/models, and school-based strategies and techniques for intervening when a school crisis occurs.

**Prerequisite(s):** Admission to the School Psychology graduate program or permission of the instructor. Not open to non-degree graduate students.

**PSYC 9780 ADVANCED CONSULTATION IN PSYCHOLOGY AND EDUCATION (3 credits)**

The course is designed to provide education and psychology professionals a comprehensive understanding of foundational theories and processes of consultation applied to education and psychology problems of children. A major objective is to focus on developing consultation skills considered necessary to be an effective consultant through direct practice and feedback. The course will emphasize the relationship between the consultant and parents, teachers, and other professionals within the school and child mental health settings.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 9910 TOPICAL SEMINAR IN PSYCHOLOGY (3 credits)**

A discussion of specific advanced topics which will be announced whenever the course is offered.

**Prerequisite(s):** Permission of instructor. Not open to non-degree graduate students.

**PSYC 9920 TOPICAL SEMINAR IN PSYCHOLOGY (2 credits)**

A discussion of specific advanced topics which will be announced whenever the course is offered.

**Prerequisite(s):** Permission of instructor. Not open to non-degree graduate students.

**PSYC 9940 SCHOOL PSYCHOLOGY APPLIED RESEARCH PROJECT (1-7 credits)**

The applied research project consists of students conducting an independent research project from start to finish. This project should have relevance to a practical aspect of school psychology and provide a unique contribution to the field. It may be quantitative or qualitative in nature, and must rely on sound research methodology.

**Prerequisite(s):** Must be admitted to a graduate level PSYC program or permission of instructor. Not open to non-degree graduate students.

**PSYC 9950 PRACTICUM FOR DOCTORAL STUDENTS (1-6 credits)**

Faculty-supervised experience in industry or business designed to bridge the gap between the classroom and a job, emphasizing use of previously acquired knowledge in dealing with practical problems for doctoral students.

**Prerequisite(s):** Admission to industrial/organizational psychology graduate program. Not open to non-degree graduate students.

**PSYC 9960 RESEARCH OTHER THAN THESIS (1-12 credits)**

Research work under supervision of a faculty member. May be repeated up to a total of 12 credit hours.

**Prerequisite(s):** Enrollment in a graduate program beyond the master's level. Not open to non-degree graduate students.

**PSYC 9970 ED.S. LEVEL PRACTICUM IN SCHOOL PSYCHOLOGY (1-6 credits)**

School Psychology School-Based Practicum is a capstone course in school psychology intended for students who have completed their Master's degree in School Psychology. This course is designed to reflect the scientist-practitioner model of training and practice in School Psychology. To accomplish this goal, students will be assigned to a practicing school psychologist employed by the public schools. The content of this course will focus on integrating previous and concurrent training experiences from courses and field experiences.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 9980 INTERNSHIP IN SCHOOL PSYCHOLOGY (1-6 credits)**

School Psychology Internship is the final course in school psychology intended for students who have completed all of their other coursework. It is a 1200 hour culminating experience leading to licensure/certification as a school psychologist in most states, and eligibility for the NCSP exam. The internship requires that students apply the domains of training and practice that are outlined in the School Psychology program philosophy and training objectives. University and site-based supervision is required.

**Prerequisite(s):** Admission to School Psychology Graduate Program and/or permission of instructor. Not open to non-degree graduate students.

**PSYC 9990 PSYCHOLOGY DISSERTATION (1-24 credits)**

The course provides doctoral candidates in Psychology with a process to complete a dissertation research plan. The course learning activities will focus on the completion of a candidate's dissertation. The course is designed to allow advanced doctoral candidates to demonstrate technical mastery of the discipline and to advance knowledge by completing an investigation.

**Prerequisite(s):** Must be admitted to a graduate level PSYC program or permission of instructor. Not open to non-degree graduate students.

## Public Administration (PA)

### Public Administration Graduate Courses

**PA 8010 THE PUBLIC ECONOMY (3 credits)**

This course focuses on microeconomics and its application to policy and management in the public and non-profit sectors. The concept of efficiency is developed along with the goal of social equity to help determine the roles of the public, private, and non-profit sectors. Some key issues examined are: the balance between equity and efficiency, government intervention in the market, privatization of public services, and cost benefit analysis.

**Prerequisite(s):** Not open to non-degree graduate students.

**PA 8030 INTERNSHIP IN PUBLIC ADMINISTRATION (1-6 credits)**

Maximum of 3 hours to be granted upon completion of written report on internship. Internship in some government: national, state, local or nonprofit agency and in some instances public-oriented private agencies. Students will take course as Satisfactory/Unsatisfactory. An additional 3 hours may be taken through PA 8040.

**Prerequisite(s):** Nine hours of MPA coursework and permission of school. Not open to non-degree graduate students.

**PA 8040 INTERNSHIP IN PUBLIC ADMINISTRATION (1-6 credits)**

Maximum of 3 hours to be granted upon completion of written report on internship. Internship in some government: national, state, local or nonprofit agency and in some instances public-oriented private agencies. Students will take the course as Satisfactory/Unsatisfactory. An additional 3 hours may be taken through PA 8030.

**Prerequisite(s):** Nine hours of MPA course work and permission of the school. Not open to non-degree graduate students.

**PA 8050 FOUNDATIONS OF PUBLIC ADMINISTRATION (3 credits)**

The purpose of this course is to introduce the student to the art and science of public administration and to enable the student to develop the knowledge, skills and abilities requisite to the pursuit of graduate education in public administration.

**Prerequisite(s):** Not open to non-degree graduate students

**PA 8090 ORGANIZATION THEORY AND BEHAVIOR (3 credits)**

A study of the various approaches to understanding public organizations and people in them with special emphasis on the design, functioning and management of public agencies.

**Prerequisite(s):** Not open to non-degree graduate students

**PA 8100 ADVANCED MANAGEMENT AND LEADERSHIP FOR PUBLIC AND NONPROFIT PROFESSIONALS (3 credits)**

This course is designed to advance students' understanding and techniques about the role of leadership and ethics in the public and nonprofit sectors. Special attention will be paid on the application of theories of leadership and ethics to manage various boundary spanning activities including managing external relationships, collaborations/networks, performance, and innovation and change.

**Prerequisite(s):** PA 8050 and PA 8090. Not open to non-degree graduate students.

**PA 8106 MARKETING IN PUBLIC, NON-PROFIT AND AVIATION ORGANIZATIONS (3 credits)**

This course will focus on developing a working knowledge of marketing and its component parts as they may be applied to non-profit organizations. Emphasis will be placed on understanding the marketing process and applying marketing principles to real organizational settings. (Cross-listed with PA 4100).

**Prerequisite(s):** Graduate and permission of instructor, and PA 8010, PA 8090; or permission of department.

**PA 8110 MANAGING INFORMATION IN THE PUBLIC SECTOR (3 credits)**

This course is directed toward in-career and pre-career students in public administration who wish to acquire knowledge of issues in the management of information in the public sector and the basics of computing applications in the public sector. Its primary focus is on special issues in the management of information.

**Prerequisite(s):** PA 8010, PA 8050 and PA 8090, or permission of school. Not open to non-degree graduate students.

**PA 8120 ANALYSIS AND DECISION MAKING (3 credits)**

This course assists students to develop their skills in research design and data analysis, covering both qualitative and quantitative data relevant to public affairs. The course introduces students to the fundamentals of research design, data collection, data and statistical analysis, and drawing pertinent policy and management recommendations.

**Prerequisite(s):** Not open to non-degree graduate students

**PA 8130 MANAGING DIGITAL GOVERNANCE (3 credits)**

This course equips current and future public and nonprofit managers with capabilities and strategies to evaluate, participate in, and/or lead an information technology (digital governance) project to improve or even transform public service and governance. Because information technology has become increasingly integrated into public service and governance, understanding the role of information and information technology in government has become a necessity. This course provides the concepts and tools for public and nonprofit managers to succeed in the information age by better managing information as a resource and information technology as an enabler for public services and governance. The topics include digital divide, online participation, strategic IT management and change management, information resource and knowledge management, financing IT projects, IT project and performance management, management of IT outsourcing, and business process management. Basic literacy in computing and information technology is an integral part of the course. The discussion of these topics will address the growing use of information and communication technologies such as social media, smart mobile devices, and internet of things. Moreover, this course addresses the interplay of management, technology, and policy in the context of public service organizations, including governmental and non-profit organizations. This course offers the best of both practical and academic worlds via assigned readings and exercises, discussions, and a service-oriented project. The emphasis is on research-based knowledge and best practices informing one another. The class discussion is aimed at integrating professional experience with quality research to generate additional insights.

**Prerequisite(s):** PA 8050. Not open to non-degree graduate students.

**PA 8160 PLANNING, PREPAREDNESS, AND MITIGATION (3 credits)**

This course addresses the pre-disaster phases of Emergency Management, including planning, preparedness, and mitigation. The class covers the National Response Framework (NRF) and the National Incident Management System (NIMS) and their influence on modern community Emergency Management and Homeland Security. EMGT 8060 is intended to prepare students for the various tangible and intangible considerations EMGT professionals face when planning and preparing for disasters, either natural or man-made. (Cross-listed with EMGT 8060).

**Prerequisite(s):** Students must have completed or be concurrently taking the beginning core of the MPA curriculum.

**PA 8200 COMMUNITY ORGANIZING & SOCIAL CHANGE (3 credits)**

This course focuses on various theories and applications of organizing communities and neighborhoods to effect change. Of particular interest is the role of engaging citizens in improving their communities. (Cross-listed with UBNS 8200).

**Prerequisite(s):** Permission of instructor. Not open to non-degree graduate students.

**PA 8300 POLICY DESIGN AND IMPLEMENTATION (3 credits)**

This course examines the formulation, adoption, implementation and evaluation of public policy. Important topics include the basic features of American government, the causes and determinants of public policies, the dynamics of decision-making in the public sector, the obstacles to "successful" public programs, and the criteria for the assessment of a public program's impact. Special emphasis is given to the role public managers play within the policy process.

**Prerequisite(s):** PA 8050, PA 8090 and PA 8120. Not open to non-degree graduate students.

**PA 8320 PUBLIC POLICY EVALUATION (3 credits)**

This course is designed to have the students understand the role of evaluation in the policy process, to demonstrate how to conduct and implement evaluations of public programs, to illustrate the procedures for presenting an evaluation report to public officials and citizens, to introduce operational issues and problems associated with management of an office of policy evaluation, and to insure the exploration of conflicts and limitations inherent to public policy evaluation.

**Prerequisite(s):** PA 8010, PA 8050, PA 8090 and PA 8120 and completion of at least 24 hours in the MPA program, not open to non-degree graduate students

**PA 8330 SEMINAR IN POLICY ANALYSIS (3 credits)**

Application of analytical techniques to the assessment of alternative courses of public action and the development and design of public programs; utilization and impact of expert analysis by public officials and political groups; impact and role of technical analysis in a democracy; management of policy analysis units within government.

**Prerequisite(s):** PA 8050 and PA 8120, not open to non-degree graduate students

**PA 8350 SOCIAL POLICY AND INEQUALITY (3 credits)**

The course aims to provide students with a foundation for understanding the sociological, political, and economic themes and issues that are relevant for today's social policy making. In this course, students will examine key theories and social policy issues that underlie contemporary thinking about our social, political, and economic landscape.

**Prerequisite(s):** PA 8050, PA 8090, and PA 8100. Admission to a graduate degree or graduate certificate program. Not open to non-degree graduate students.

**PA 8400 PUBLIC AND NONPROFIT BUDGETING (3 credits)**

The purpose of the course is to familiarize public administration students with the basic characteristics and features of public budgets and enable them to deal competently with them.

**Prerequisite(s):** PA 8050 or permission of school. Not open to non-degree graduate students.

**PA 8410 PUBLIC HUMAN RESOURCE MANAGEMENT (3 credits)**

A study of the personnel process in American governmental administration. The processes and problems of recruiting, structuring and operating public bureaucracies are examined as well as problems in personnel leadership, neutrality, accountability and performance.

**Prerequisite(s):** PA 8050 or permission of school. Not open to non-degree graduate students.

**PA 8420 PUBLIC WORKS MANAGEMENT (3 credits)**

This course is designed to develop an understanding of the profession of public works management, and its relationship with urban service delivery. Students will learn substantive specialty areas of public works, as well as management techniques to improve service delivery efficiency.

**Prerequisite(s):** PA 8050. Not open to non-degree graduate students.

**PA 8430 RESPONSE, RECOVERY & RESILIENCE (3 credits)**

This course addresses the post-impact/disaster phases of Emergency Management, including response, recovery, and resiliency. The class focuses on disasters declarations and assistance, interagency cooperation, unified and incident command, operational application of the National Incident Management System (NIMS), and the political, legal, social, and economic considerations inherent with responding to and recovering from emergencies. (Cross-listed with EMGT 8430).

**Prerequisite(s):** Students must have completed or be concurrently taking the beginning core of the MPA curriculum.

**PA 8436 MUNICIPAL ADMINISTRATION (3 credits)**

The administrative structure and administrative practices of American cities covering such areas as finance, personnel, public works, public safety, health, utilities and planning. (Cross-listed with PA 4430).

**Prerequisite(s):** PA 8010 and PA 8050 or permission of school. Not open to non-degree graduate students.

**PA 8440 ORGANIZATION DEVELOP. & PLANNED CHANGE IN THE PUBLIC SECTOR (3 credits)**

This course provides students with the theories and skills necessary to manage organizational change in the public sector. To accomplish this will require that the student become versed in the strategies of organizational development (OD) and planning in the public sector while at the same time mastering intervention techniques.

**Prerequisite(s):** PA 8010, PA 8050, PA 8090, PA 8120 and completion of at least 24 hours in the MPA, not open to non-degree graduate students

**PA 8450 SEMINAR IN ADVANCED MANAGEMENT ANALYSIS IN PUBLIC AGENCIES (3 credits)**

A study of theory and method related to analysis of problems of organization and workflow in public agencies. The course includes problem analysis, field study methods, design of improved methods, selecting alternatives and developing decision packages.

**Prerequisite(s):** PA 8010, PA 8050, PA 8090, PA 8120 and completion of at least 24 hours in the MPA program.

**PA 8470 ADMINISTRATIVE ETHICS AND LEADERSHIP (3 credits)**

Ethical action and effective leadership are especially important in public service and they are closely related. This course introduces students to concepts from public sector ethics and from leadership theory. Emphasis is placed on decision-making processes, relationships between public and nonprofit sector professionals and elected officials and citizens, and the role of the career public service professional in a democratic society.

**Prerequisite(s):** PA 8050 or permission of school. Not open to non-degree graduate students.

**PA 8480 SEMINAR IN PUBLIC FINANCIAL ADMINISTRATION (3 credits)**

The study of public finance administration policy and techniques areas. Emphasis is placed on the technical aspects of public finance administration with particular emphasis on the purposes, processes and issues associated with particular techniques or technique areas.

**Prerequisite(s):** PA 8050 or permission of department.

**PA 8500 ISSUES IN PUBLIC-PRIVATE SECTOR COOPERATION (3 credits)**

This course introduces students to the organization and processes, as well as the tools and techniques, of public-private sector cooperation. The objective of such a course is to familiarize students with the concepts and skills needed to develop and administer joint activities between the public and private sectors. Such cooperative activities have become an important aspect of public administration in recent years.

**Prerequisite(s):** PA 8010, PA 8050, PA 8090 or permission of school. Not open to non-degree graduate students.

**PA 8516 LONG-TERM CARE ADMINISTRATION (3 credits)**

An investigation of the broad range of policy issues, theoretical concerns and practical management strategies influencing the design, organization and delivery of long-term care services. (Cross-listed with GERO 4510, GERO 8516, PA 4510).

**Prerequisite(s):** Permission of instructor and PA 8050, PA 8090 or permission of school. Not open to non-degree graduate students.

**PA 8520 SEMINAR IN GRANT WRITING (3 credits)**

This course explores the grant-writing process from initial conceptualization through submission and award to final report. The purposes of the course are to provide graduate students with the expertise and tools needed to fund their own research, to provide effective grant-writing assistance to faculty mentors and other colleagues, and to compete more effectively in the job market and/or for acceptance into doctoral and post-doctoral programs.

**Prerequisite(s):** PA 8010, PA 8050 and PA 8090. Not open to non-degree graduate students.

**PA 8530 PLANNING AND EVALUATION (3 credits)**

The basic question presented in this course is how we can use strategic planning and evaluation to build public and nonprofit organizations that function creatively and effectively, and that enhance the overall public value of their services.

**Prerequisite(s):** PA 8100, PA 8050, PA 8090, PA 8120 and PA 8300. Not open to non-degree graduate students.

**PA 8540 NONPROFITS AND PUBLIC POLICY (3 credits)**

The class explores the interaction between public policy and nonprofit organizations: how nonprofits influence and are influenced by public decision-making.

**Prerequisite(s):** PA 8050, PA 8090, PA 8100. Admission to a graduate degree or graduate certificate program. Not open to non-degree graduate students.

**PA 8550 INTRODUCTION TO THE NON-PROFIT SECTOR (3 credits)**

This course focuses on the contribution and importance of philanthropy, volunteerism and nonprofit organizations in society. Includes the differentiation between both public and private nonprofit organizations and the for profit sector. Management issues regarding nonprofit agencies is introduced.

**Prerequisite(s):** Graduate standing, PA 8010, PA 8090 and permission of advisor or permission of school. Not open to non-degree graduate students.

**PA 8560 NONPROFIT FINANCIAL MANAGEMENT (3 credits)**

The focus of this course is on developing an understanding of the managing of financial resources within a nonprofit organization. A special emphasis is also placed on developing and executing budgets for such organizations.

**Prerequisite(s):** Graduate standing and PA 8550 or permission of instructor. Not open to non-degree graduate students.

**PA 8566 INTERGOVERNMENTAL MANAGEMENT (3 credits)**

This course is directed at those who wish to improve their knowledge and understanding of intergovernmental relations as it impacts policy and administration in the United States. The course will look at history and theoretical underpinnings of intergovernmental relations, the different elements of these relationships and review specific management arenas that are affected by these relationships. (Cross-listed with PA 4560).

**Prerequisite(s):** PA 8010, PA 8050 and PA 8090; or permission of school. Not open to non-degree graduate students.

**PA 8580 NONPROFIT HUMAN RESOURCES MANAGEMENT (3 credits)**

This graduate-level course provides an introduction to the theories, principles, policies and practices related to leading and managing human resources in nonprofit organizations, including personnel, board and volunteer management and development.

**Prerequisite(s):** Graduate standing and permission of adviser; PA 8050; or permission of school. Not open to non-degree graduate students

**PA 8596 TECHNIQUES TOPICS IN NONPROFIT MANAGEMENT (1-3 credits)**

A variable content course emphasizing nonprofit management techniques and topics. Topics include nonprofit leadership, board executive staff roles and relationships, personnel and volunteer management, financial management, proposal and grant writing community resources, special events planning and administration, needs assessments and legal ethical aspects.

**Prerequisite(s):** PA 8050 or permission of school. Not open to non-degree graduate students.

**PA 8600 ADMINISTRATIVE LAW (3 credits)**

A review of the principal elements of the role and character of legal processes in government administration, including delegation of powers, legal forms of administrative action, liability of government units and officers and judicial review of administrative action.

**Prerequisite(s):** PA 8050, not open to non-degree graduate students

**PA 8610 CONTEMPORARY ISSUES IN EMERGENCY MANAGEMENT (3 credits)**

This course exposes the student to contemporary issues in Emergency Management including how to conduct exercise design, development, and evaluation. What different factors affect administration of emergency management services and what actions are required for planning, preparedness, mitigation, response, and recovery strategies when dealing with Natural Disasters, Medical Pandemics and Outbreaks, and Terrorism/Para Military Events that threaten the United States. (Cross-listed with EMGT 8600).

**Prerequisite(s):** Students must have completed or be concurrently taking the beginning core of the MPA curriculum.



**PA 8676 PROGRAMS AND SERVICES FOR OLDER ADULTS (3 credits)**

This course is provided to give the student an historical overview of programs for older adults; examine the national policy process as it relates to the older American; and review the principles and practices relative to the existing national programs for the aged. (Cross-listed with GERO 4670, GERO 8676).

**Prerequisite(s):** Not open to non-degree graduate students.

**PA 8710 FUND RAISING IN PUBLIC AND NON-PROFIT ORGANIZATIONS (3 credits)**

The purpose of this course is to introduce students to a variety of fund raising methods, provide the context in which these methods might be used, and provide an understanding of how fund raising operates within public and not-for-profit organizations.

**Prerequisite(s):** Graduate standing and permission of instructor, PA 8010, and PA 8090; or permission of school. Not open to non-degree graduate students.

**PA 8740 HEALTH CARE POLICY (3 credits)**

This course helps students understand major health care policy making and related issues. It focuses on the history/background; physical, social, and economic environment; policy process; and political marketplace of contemporary U.S. health care policies. Topics include health care reform, cost containment, indigent health care and urban vs. rural health care. A health care background is helpful, but not required.

**Prerequisite(s):** Not open to non-degree graduate students.

**PA 8750 SOCIAL DETERMINANTS OF HEALTH (3 credits)**

This course will introduce students to social determinants of health, health inequalities, vulnerable groups who experience substantial health disparities, and public policy strategies to improve health inequalities in the United States.

**Prerequisite(s):** PA 8050, PA 8090, PA 8100. Must be admitted to a graduate degree or graduate certificate program. Not open to non-degree graduate students.

**PA 8826 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)**

An introduction to environmental law and regulations intended for students pursuing careers in environmental sciences or related fields. The course emphasizes the origins, implementation, and enforcement of U.S. state and federal laws and regulations. Major federal environmental laws, covering air and water quality, solid and hazardous waste, pollution prevention and remediation, and natural resources will be discussed. Usually offered Fall semesters. (Cross-listed with ENVN 8826, ENVN 4820, BIOL 4820, GEOG 4820, GEOG 8826).

**Prerequisite(s):** Graduate Standing or Permission from the Instructor.

**PA 8896 SPECIAL TOPICS PUBLIC ADMIN (3 credits)**

A course with the purpose of acquainting the student with key issues and topics of special concern to public and non-profit management that they otherwise would not receive elsewhere. No more than six hours of total credit in PA 8896 and PA 8906 can be taken without prior permission by the graduate program committee. Further, each topic in the course will need the approval of the Dean of Graduate Studies prior to being offered. (Cross-listed with PA 4890).

**PA 8920 READINGS IN PUBLIC ADMINISTRATION (1-3 credits)**

Specially planned readings in public administration for the graduate student who encounters scheduling problems in the completion of his degree program, or who has special preparatory needs and who is adjudged by the department to be capable of pursuing a highly independent course of study.

**Prerequisite(s):** PA 8010, PA 8050, PA 8090, PA 8120, and permission of the school. Not open to non-degree graduate students.

**PA 8990 CAPSTONE PROJECT IN PUBLIC ADMINISTRATION (3 credits)**

The Capstone Project offers each student the opportunity to demonstrate mastery of the theory and practice of public administration by applying the knowledge and skills gained in the MPA program to a project of the student's choice. This involves completing a project report reflecting the cumulative knowledge gained from these experiences. The course is intended only for students who are completing their Masters of Public Administration (MPA).

**Prerequisite(s):** Completion of at least 30 hours in the MPA, PA 8050, PA 8100, PA 8090, PA 8120, PA 8300, PA 8400, PA 8530 and school permission. Not open to non-degree graduate students.

**PA 9000 FOUNDATIONS OF PUBLIC ADMINISTRATION (3 credits)**

This course is designed as a doctoral seminar that surveys the development of public administration from its earliest antecedents to the present day, taking both a historical and topical approach.

**Prerequisite(s):** Admission into the doctoral program. Not open to non-degree graduate students.

**PA 9080 ADVANCED STATISTICAL APPLICATIONS (3 credits)**

This is a required course which will provide the student with fundamentals of modern statistical techniques used in criminal justice and public affairs research. (Cross-listed with CRCJ 9080).

**Prerequisite(s):** CRCJ 8950

**PA 9200 THEORIES OF THE POLICY PROCESS (3 credits)**

Proseminar in public policy with emphasis on the development and application of theories of the formulation, adoption, and implementation of public policy.

**Prerequisite(s):** Completion of a Master's degree in Public Administration or a related field, and permission of the instructor. Not open to non-degree graduate students.

**PA 9300 KNOWLEDGE DEVELOPMENT AND USE IN THE PUBLIC SERVICE PROFESSION (3 credits)**

This course will examine current issues in knowledge, development and use in the public service professions. Emphasis is placed on understanding various systematic research to effect social change.

**Prerequisite(s):** Admission to doctoral program or permission of the instructor. Not open to non-degree graduate students.

**PA 9400 THE ENVIRONMENT OF PUBLIC ADMINISTRATION (3 credits)**

The purpose of this course is to enable the doctoral student to understand the role and responsibility of public administration in the context of the broader political economy.

**Prerequisite(s):** Admission to the doctoral program or permission of the instructor. Not open to non-degree graduate students.

**PA 9500 THEORIES OF NONPROFIT ORGANIZATIONS AND CIVIL SOCIETY (3 credits)**

This seminar course focuses on the theories and context of nonprofit and voluntary organizations, philanthropy, and civic society. It is designed for Ph.D. students to increase their depth of knowledge in specific content areas, including historical, legal, social, political, economic, behavioral, religious, ethical, organizational, and critical theories. The purpose is to help students gain knowledge of theories and context related to nonprofit and voluntary organizations, philanthropy, and civic society; as well as develop other skills to improve as a scholar.

**Prerequisite(s):** Admission to the doctoral program or permission of the instructor. Not open to non-degree graduate students.

**PA 9600 SEMINAR IN ADVANCED MANAGEMENT THEORY (3 credits)**

This course examines how recent advances in management theory may be incorporated into the practice of public administration.

**Prerequisite(s):** Admission to doctoral program and PA 8090 or permission of instructor. Not open to non-degree graduate students.



**PA 9700 PUBLIC BUDGETING AND FINANCIAL THEORY (3 credits)**

This seminar is focused on theoretical issues in public budgeting and governmental finance. The aim of the seminar is for the student to understand the central issues in public budgeting and finance, and the place of this field of study within public administration.

**Prerequisite(s):** Admission to doctoral program or permission of the instructor. Not open to non-degree graduate students.

**PA 9800 ADVANCED RESEARCH DESIGN (3 credits)**

This is a required course which will expose students to advanced topics in research methods in preparation for writing their doctoral dissertation. It will also apply advanced methodological techniques to problems in the field.

**Prerequisite(s):** Admission to the doctoral program. Not open to non-degree graduate students.

**PA 9900 ADVANCED TOPICS (3 credits)**

This course provides a format for exploration of topics of interest to advanced students in public administration. Topics covered will change periodically in keeping with the interests of faculty and students. (Cross-listed with AVN 9900).

**Prerequisite(s):** Admission to PhD program in Public Administration or permission of instructor. Not open to non-degree graduate students.

**PA 9920 TEACHING AND PROFESSIONAL SKILLS WORKSHOP (1 credit)**

The workshop offers training for a career in higher education. Instruction and practice in teaching includes creating and presenting lecture material, facilitating discussion, constructing syllabi, and related matters. Instruction in professional skills includes topics such as interviewing for positions, writing and publishing, and the tenure process.

**Prerequisite(s):** Admission to Ph.D. program or permission of instructor. Not open to non-degree graduate students.

**PA 9930 PHD RESEARCH & PROFESSIONAL SKILLS WORKSHOP (1 credit)**

This one credit hour PhD workshop offers training and practice related to research and professional development to prepare for a career in higher education or another research-oriented career. Topics covered include developing a research design and proposal, applying for research funding, presenting research, publishing research, preparing to go on the academic or professional job market, and self-care/well-being.

**Prerequisite(s):** Admission to the doctoral program or permission of the instructor. Not open to non-degree graduate students.

**PA 9950 QUANTITATIVE METHODS IN PUBLIC ADMINISTRATION (3 credits)**

This course is designed to prepare the student to understand and apply advanced statistical methods needed in the design and analysis of public administration investigations. The major topics to be covered include research designs, nonexperimental research and specialized research designs, multiple linear regression, analysis of covariance, and logistic regression.

**Prerequisite(s):** CRCJ 8030 or equivalent, PA 8050 or permission of the school. Not open to non-degree graduate students.

**PA 9960 QUALITATIVE RESEARCH METHODS (3 credits)**

This course is a doctoral seminar in the methods and practice of qualitative research. Advanced research design techniques, validity, mixed methodology, and qualitative research tools common to the practice of public administration are presented.

**Prerequisite(s):** Admission to the doctoral program in public administration or permission of the instructor. Not open to non-degree graduate students.

**PA 9970 DIRECTED RESEARCH IN PUBLIC ADMINISTRATION (3 credits)**

This course offers a structure for doctoral students to conduct advanced research in their chosen area of specialization. (Cross-listed with AVN 9970).

**Prerequisite(s):** Admission to Ph.D. program in Public Administration and permission of instructor. Not open to non-degree graduate students.

**PA 9980 DIRECTED READINGS IN PUBLIC ADMINISTRATION (3 credits)**

This course is designed to provide the advanced graduate student with the opportunity to do extended readings on a specialized public administration topic.

**Prerequisite(s):** Admission to the Ph.D. program in public administration and permission. Not open to non-degree graduate students.

**PA 9990 DISSERTATION (1-20 credits)**

The dissertation is an original research project conducted and written under the direction of a faculty dissertation committee. The dissertation provides the student with an opportunity to do original research that contributes to advancing the body of knowledge in public administration.

**Prerequisite(s):** Admission to Ph.D. program in public administration.

Admission to candidacy for Ph.D. degree. Prior to enrolling for dissertation hours, student must have permission from the chair of the supervisory committee. Not open to non-degree graduate students.

## Public Health & Behavior (PHHB)

### Public Health & Behavior Graduate Courses

**PHHB 8050 APPLIED RESEARCH IN PUBLIC HEALTH (3 credits)**

This course will assist candidates to develop the basic skills to conduct applied research to address contemporary problems in public health. The course will emphasize proposal writing, data collection, research design, statistical analysis, computer application, and writing of research reports.

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**PHHB 8080 TOPICS IN HEALTH EDUCATION (3 credits)**

This course will explore important current issues in Health Education. Candidates will explore economic, political, ethical and technological developments that affect the practice of Health Education. There is no limit to the number of times a candidate may enroll in HED 8080 as long as a different topic is offered each time.

**Prerequisite(s):** Graduate.

**PHHB 8206 A PUBLIC HEALTH APPROACH TO MENTAL HEALTH (3 credits)**

This public health course will help students think critically about the prevention, identification, and treatment of mental illness in the United States. Students will be introduced to concepts from the disciplines of public health, psychology and sociology to understand mental health disorders and their impact on population health. Students will explore health disparities through the lens of cultural, social, behavioral, psychological, and economic factors. Students will recognize that mental health exists on a continuum and develop skills to address environmental influences on behavior. (Cross-listed with PHHB 4200).

**PHHB 8250 HUMAN SEXUALITY (3 credits)**

This graduate-level course is aimed at providing an overview of the current scientific knowledge concerning human sexuality. The course is designed to be interdisciplinary in nature, providing the biological, behavioral and cultural aspects of human sexuality. Priority will be given to candidates from the helping professions. Qualified candidates from other related disciplines must have permission of instructor.

**Prerequisite(s):** Undergraduate Anatomy and Physiology

**PHHB 8270 INTERVENTIONS IN HEALTH EDUCATION (3 credits)**

This course will provide health behavior candidates with an opportunity to investigate, contrast, develop, implement and evaluate a variety of intervention activities, to be applied in different settings. Theories regarding methods to enhance behavior change and teaching strategies to meet the health needs of a diverse population will be explored.

**Prerequisite(s):** Graduate status.

**PHHB 8330 ALCOHOL EDUCATION (3 credits)**

A study of the problems associated with alcohol use, misuse and abuse. The patterns and trends of use, theories of dependence, pharmacological aspects and health consequences are explored. Emphasis is given to the identification of people with alcohol related problems and the role of the private and public sectors in prevention, education, intervention, and referral. Methods of assessing needs, prescribing, implementing, and evaluating alcohol education programs will be explored.

**PHHB 8360 COMMUNITY HEALTH (3 credits)**

An in-depth examination of community health and determinants of community health issues. The epidemiology, statistical sciences, environmental health, political influences on health, and behavioral social sciences for community health are examined. Students are expected to be able to apply concepts addressed in class to contemporary health issues.

**PHHB 8400 HEALTH PROMOTION PROGRAM PLANNING (3 credits)**

An in-depth application of the health promotion program planning process utilizing a choice of planning models. Students develop a comprehensive plan in response to an actual grant announcement and follow appropriate guidelines.

**PHHB 8450 EPIDEMIOLOGY & PREVENTION OF DISEASE (3 credits)**

The course is designed for health behavior graduate students and others who are interested in public health. The causes, prevention, treatment and control of prevalent communicable and non-communicable disease in a culturally diverse and global society will be emphasized. Special emphasis will be given to diseases and health problems that can be prevented or controlled through education and advocacy. Students will apply skills to contemporary issues.

**PHHB 8500 HEALTH PROGRAM DESIGN (3 credits)**

This course will provide students the skills to design an education/advocacy health initiative based on health behavior theory and models. They will develop a plan that includes a detailed needs assessment, a carefully crafted set of SMART (Specific, Measurable, Achievable, Relevant, Time-Bound) objectives for all levels of program outcome, an implementation strategy using health behavior models, and a thorough and systematic evaluation framework (formative and summative).

**PHHB 8556 HEALTH ASPECTS OF AGING (3 credits)**

This course emphasizes health promotion for older adults. Special health needs of older Americans are compared and contrasted with health needs for other age groups. Prevention or delaying of chronic diseases and disorders are emphasized. (Cross-listed with PHHB 4550, GERO 4550, GERO 8556, WGST 4550).

**PHHB 8600 HEALTH BEHAVIOR (3 credits)**

The purpose of this course is to study the theoretical foundations of health behavior. Candidates will develop an understanding of the determinants of health behavior, the models and theories that provide a framework for predicting health behavior, and the strategies employed to bring about behavioral changes for health and disease prevention in individuals and groups.

**PHHB 8706 WOMEN'S HEALTH AND ISSUES OF DIVERSITY (3 credits)**

This course provides a critical understanding of the inter-relationship between socio-cultural, economic, and political factors and women's physical and mental health. The aim is to provide an overview of the experience with the health care system. Emphasis will be on critically examining recent scholarship from a sociological, behavioral, health policy perspective. (Cross-listed with PHHB 4700, SOC 4700, SOC 8706).

**Prerequisite(s):** Graduate standing.

**PHHB 8730 DYING, DEATH & GRIEVING (3 credits)**

An examination of theory and research relevant to interaction with the older, terminally ill person, focusing on communication with widows and other survivors as well as the dying patient. (Cross-listed with GERO 8730).

**Prerequisite(s):** Graduate Students

**PHHB 8750 PROGRAM EVALUATION AND INSTRUMENTATION (3 credits)**

This course will build skills for selection, development and analysis of various types of instruments and techniques for conducting process, impact, and outcome evaluations in health promotion, education, and behavior. Evaluation of health behavior change and its antecedents, changes in community services programs, and community health status will be discussed. Candidates will learn methods for developing choosing psychometric tools, choosing appropriate evaluation designs, procedures for data collection, and describing evaluation results. Emphasis will be placed on political, statistical, and theoretical aspects of instrumentation and evaluation practices.

**Prerequisite(s):** HED 8270/PHHB 8270 or permission of instructor.

**PHHB 8850 HEALTH ASPECTS OF STRESS MANAGEMENT (3 credits)**

The health-related aspects of stress management and control will be the focus of this course. Selected techniques for self-regulating stress will be demonstrated, practiced and analyzed. Candidates will be introduced to current scientific research in human stress.

**Prerequisite(s):** Graduate.

**PHHB 8950 PUBLIC HEALTH LEADERSHIP AND ADVOCACY (3 credits)**

This course incorporates public health leadership theory and practices that are grounded in biomedical and social science and sanctioned by public law. Also included is the politics of communities and organizations. Advocacy is emphasized as a key tool to secure funding and to help assure that local, state, and federal policy-makers will adopt, implement, and maintain important public health regulations, policies and programs.

**Prerequisite(s):** Fifteen (15) health education graduate credits. Not open to non-degree graduate students.

**PHHB 8980 HEALTH EDUCATION PRACTICUM (1-3 credits)**

This course offers graduate candidates in health education an opportunity to gain practical, on-the-job training in health education in local schools, businesses, hospitals, clinics, voluntary health agencies or governmental health agencies.

**Prerequisite(s):** Candidates must have completed 21 credit hours at the undergraduate or graduate level (3.0 GPA or above) in health education prior to enrolling in this course. Not open to non-degree graduate students.

## Recreation-Leisure Study (RLS)

### Recreation-Leisure Study Graduate Courses

**RLS 8000 SPECIAL STUDIES IN RECREATION AND LEISURE STUDIES (1-3 credits)**

A series of intensive courses especially designed for (1) practitioners within recreation, parks and leisure services and/or (2) candidate majors within recreation and leisure studies; scheduled as seminars or workshops, according to purpose.

**Prerequisite(s):** Graduate.

**RLS 8050 SEMINAR IN RECREATION THERAPY (3 credits)**

Seminars especially designed for recreational therapy majors within recreation and leisure studies and/or practitioners within therapeutic recreation and leisure services.

**Prerequisite(s):** Graduate standing

**RLS 8060 PERSPECTIVES OF LEISURE EDUCATION (3 credits)**

A survey approach which will focus on an awareness and understanding of leisure values, lifestyles, contributions, and basic concepts associated with the clinical application of leisure education.

**Prerequisite(s):** Graduate standing and permission of the instructor.

**RLS 8076 CAMPUS RECREATION MANAGEMENT (3 credits)**

A review of the knowledge, skills, and abilities required for the management of typical campus recreation programs and facilities. This course will prepare students for entry level positions managing campus recreation employees, programs, facilities and services. (Cross-listed with RLS 4070)

**RLS 8080 RT: CLINICAL ASSESSMENT, EVALUATION & RESEARCH (3 credits)**

An overview of the role of assessment, evaluation and research and their relevance to the priorities of the field of recreational therapy (RT). A seminar approach that will include historical and philosophical concepts as well as practical experience related to these areas. Special attention will be given to implications for developing a comprehensive understanding of the roles that assessment and evaluation play in the research process in providing information about RT efficacy and outcomes. The course will also provide the candidate an opportunity to develop a research agenda that is consistent with current recreation therapy efficacy needs.

**Prerequisite(s):** Graduate standing.

**RLS 8246 RECREATION ADMINISTRATION (3 credits)**

Designed to provide a background of information on public, private and commercial recreation with special attention to organization, promotion, and development from the administrative aspect. (Cross-listed with RLS 4240)

**Prerequisite(s):** RLS major and senior status.

**RLS 8306 RECREATION PROGRAMMING AND LEADERSHIP (3 credits)**

An advanced study of recreational programming and planning through practical applications. Emphasis is upon understanding proven programming and leadership knowledge and skills, understanding participant leisure behavior, understanding participant leisure needs, and skill development in ways through which organizations, agencies and businesses create service to respond to the leisure needs of the consumer. (Cross-listed with RLS 4300)

**Prerequisite(s):** Junior, senior or graduate.

**RLS 8406 TRAVEL AND TOURISM (3 credits)**

This course is designed to provide the recreation major or practitioner, and other interested candidates, with an awareness of the major components of the travel and tourism industry, including its costs and benefits to a resident community. (Cross-listed with RLS 4400)

**Prerequisite(s):** Junior Standing.

**RLS 8420 LEISURE, PLAY AND HUMAN DEVELOPMENT (3 credits)**

An examination of leisure and play as conditions of human development, reflections of human development, and as buffers for adjusting to age-related life events. These three foci will be considered in relationship to the entire life span, and implications will be drawn for recreation and leisure services.

**Prerequisite(s):** Graduate standing.

**RLS 8426 RECREATION FOR THE AGING (3 credits)**

Role of leisure services as related to understanding and working with elders. Emphasis on recreation programming as a mode of intervention. Analysis and study of the phases of aging, with reference to psychomotor, affective, and cognitive changes; introduction to the theories of aging and how they relate to the lifestyle of this population; recreational therapy intervention, activity adaptation and program design; leisure education and issues and trends. (Cross-listed with RLS 4420, GERO 4420, GERO 8426)

## Religion (RELI)

### Religion Graduate Courses

**RELI 8036 AFRICANA RELIGIONS (3 credits)**

An introduction to religions in Africa and the diaspora, including African Traditional Religions, Christianity, Islam, and Afro-Caribbean religious traditions, using anthropological, historical, and other academic approaches to the study of religious and spiritual traditions. In particular, students will learn about the role of spirits, ancestors, witches, and other invisible agents in ideas and practices regarding health and healing. Finally, the class will examine the complex inter-relationships between religious ideas and practices and contemporary post-colonial political-economic realities, including the consequences of genocide and other human rights violations and the role of religious communities in social and economic development. (Cross-listed with RELI 4030, BLST 8036, BLST 4030).

**RELI 8066 FIRST NATIONS: SPIRIT IN ARTS AND CULTURES (3 credits)**

First Nations: Spirit in Arts and Cultures explores how contemporary Indigenous/Native (First Nations, Metis and Inuit) artists in the lands now known as Canada express their cultures, especially beliefs, through the fine arts. While we will focus on visual culture (sculpture, painting, film, mixed media), literary works (a novel, poetry) and music will also be included. First Nations, Metis and Inuit artists often simultaneously express traditions, their own experiences, and reflections on the present and past through their work. By doing this, they share valuable perspectives on health and healing as well as the national process of Truth and Reconciliation. Trying, so much as possible, to let the artists speak for themselves, we will explore how spirituality manifests itself in contemporary cultures for these Indigenous artists north of the border. (Cross-listed with RELI 4060, NAMS 4060, NAMS 8066).

**Prerequisite(s):** Graduate student status

**RELI 8156 JUDAISM IN THE MODERN AGE (3 credits)**

A study of Jewish communities and movements since the Enlightenment emphasizing historical, intellectual, religious-legal, and socio-cultural developments. Pivotal movements (e.g., Hassidism, Reform, Historical Conservative Judaism, Modern Orthodoxy, Zionism) and major historical events (e.g., the American and French Revolutions, Tsarist oppression, the Holocaust/Shoah and the establishment of the State of Israel) will be analyzed for their ongoing impact on Jewish thought, practice, and social organization. (Cross-listed with RELI 4150)

**RELI 8166 THE HOLOCAUST (3 credits)**

An interdisciplinary approach in a seminar oriented format discussing various aspects of the most notorious genocide in modern times. The course will explore the history of anti-Semitism, the rise of Nazi Germany and the road to the 'final solution.' It will further explore psychological, sociological and intellectual aspects of the dark side of humanity. (Cross-listed with RELI 4160, HIST 4720, HIST 8726)

**RELI 8176 HISTORY OF CHRISTIANITY I (3 credits)**

The development of Christian theological, ritual, and social practice from the beginnings of Christianity through the Reformation. History of Christianity from its origins in the first century through the sixteenth century movements for reform. (Cross-listed with RELI 4170).

**RELI 8186 HISTORY OF CHRISTIANITY II (3 credits)**

This course will focus on the historical development of Christian ideas, practices, and institutions from the reformations of the sixteenth century CE through the early twenty-first century CE. In addition to the theological claims, students will examine the history of ritual practice and organizational development of the principal varieties of Christianity - Roman Catholic, Eastern Orthodox and other eastern churches, Protestant, and Pentecostal. (Cross-listed with RELI 4180).

**RELI 8206 COMPARATIVE RELIGIOUS ETHICS (3 credits)**

An introduction to historical and contemporary approaches to comparative religious ethics, with special focus on specific case studies as encountered in societies and religious communities across the globe. In addition to reading authors from a variety of perspectives (Aristotelians, natural law theorists, philosophers of law, pragmatists, theologians, and historians of religion), students will be introduced to special topics in the field, e.g., religion and public life, religion and law, syncretism, the secular/non-secular divide, etc. This course supports the Ethics and Values concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with RELI 4200, CACT 8206)

**RELI 8216 PUBLIC HEALTH, RELIGION, AND HUMAN RIGHTS (3 credits)**

This course examines the intersections among public health, religion, and human rights. It considers how human rights impact public health and vice versa; how human rights and religious thought impact each other; how religious communities approach issues of public health; and how religious thought and practice affects people's health. Topics include infectious diseases such as HIV and COVID-19; issues of stigma and discrimination in public health; social determinants of health such as poverty and environmental quality; and women's and LGBTQ+ health. Students will gain skills of textual analysis, dialogue, and argumentative reasoning in both written and verbal form. (Cross-listed with RELI 4210, CACT 8216)

**Prerequisite(s):** Graduate standing.

**RELI 8226 VIOLENT CONFLICTS, PEACEBUILDING, AND THE ETHICS OF INTERVENTION (3 credits)**

This course is designed to familiarize the student with the nature of violent conflict, including terrorism, and a variety of the mechanisms for peacebuilding. The course will also explore human rights and the ethics of intervention. This course supports the Ethics and Values concentration in the Master of Arts in Critical and Creative Thinking. (Cross-listed with RELI 4220, CACT 8226)

**RELI 8256 WAR, RELIGION, AND HUMAN RIGHTS (3 credits)**

What is the connection between human rights, religion, conflict, and peacebuilding? Does religion cause war or help to stop it? How can human rights violations be prevented or stopped, and can religious actors be engaged in this work? Is the use of force ever appropriate to protect human rights? This course engages all of these questions by examining the ethical thought of multiple religious traditions; the work of human rights organizations; the just war tradition; and questions about sovereignty, peacebuilding, and the use of force worldwide. It includes discussion of historical issues and contemporary case studies. (Cross-listed with RELI 4250).

**RELI 8266 THE END OF THE WORLD: RELIGION AND APOCALYPSE (3 credits)**

This course introduces students to sacred texts and their interpretation by "end of the world" groups across world history. Several ancient, medieval, and contemporary groups are discussed. Special attention is paid to the connections between apocalyptic and political movements, as well as religion and violence. (Cross-listed with RELI 4260).

**Prerequisite(s):** Graduate standing

**RELI 8406 WOMEN IN ISLAM (3 credits)**

This course examines the religious, political and cultural assignments ascribed to Muslim women. Starting with the Qur'an, social, legal, and scriptural norms will be explored through the voices of Muslim women around the world. Passages of the Qur'an, hadiths and the commentaries that lead to the elevation and/ or demise of Muslim women and their rights are studied. Examining the role of the female body, sexuality and seclusion within a historical context will lead to an understanding of the gendering of women in Islam. (Cross-listed with RELI 4400)

**Prerequisite(s):** Graduate standing.

**RELI 8426 MUSLIMS IN AMERICA (3 credits)**

This course is designed to familiarize the student with the multiplicity of Muslim voices in the United States and to examine the myths created through stereotyping and orienting. The course will also investigate how Muslims in America form identities as hybrids and transnationals and follows the chronological development of American Muslims including their identity construction, religious issues, and politics. (Cross-listed with RELI 4420)

**Prerequisite(s):** Graduate Standing.

**RELI 8456 HOLY TERROR: RELIGION AND HORROR (3 credits)**

Examining the genre of horror in books, films, and television, students will explore the ways in which horror in its many forms illuminates upon an array of religious ideas. Some of the major subjects and themes examined in this class include: various cultural interpretations of sleep paralysis, the fear of death and dying badly, Hell and Satan, nature horror, body horror, and the breakdown of the established order of reality and its replacement with one that is alien and hostile to it. In addition to these themes, we will also explore horror in Native American and Eastern social and cultural contexts. Emphasis is placed on the genre's ability to portray complex religious, philosophical, sociological, and anthropological subject matter. (Cross-listed with RELI 4450).

**RELI 8526 JESUS AND ARCHAEOLOGY (3 credits)**

Jesus and Archaeology is a course surveying the material culture of Judea and Galilee in the time of Jesus. Studying materials is a new approach to the long study of the Historical Jesus Quest. By providing a large amount of archaeological data, this method contributes a critical mass on old debated questions such as the society in Judea and Galilee, rural versus urban, Hellenism versus Judaism, size, population and language of Galilee in the time of Jesus and much more. (Cross-listed with RELI 4520).

**RELI 8556 JESUS IN FILM (3 credits)**

This course is a study of how the life of Jesus of Nazareth has been portrayed in cinema over the past century. Emphasis will be placed upon the ways in which the biblical sources are adapted for films, how Jesus films reflected and influenced the values and beliefs of the times in which they were made, and the reception by audiences of the diverse film representations of Jesus. (Cross-listed with RELI 4550).

**RELI 8606 WOMEN AND RELIGION (3 credits)**

This course on women and religion will focus on the intersections of power and oppression that women experience in four of the major world religions - Judaism, Christianity, Buddhism, and Islam. Students will examine the historical, cultural and religious contexts that highlight women's involvement or exclusion from activity and power within each religion. Students will research case studies from around the world to examine tensions within and between religious and secular societies through the lens of gender. (Cross-listed with RELI 4600).

**RELI 8756 RELIGION, FILM, AND VIOLENCE (3 credits)**

A study of the ways in which films represent violence and how these representations intersect with religious concepts. Topics will include how films express the justification or "sanctification" of violence as legitimate, redemptive violence, notions of sacrifice, and the nonviolent critique of violence. We will examine a variety of genres including action films, crime stories, horror, and religious films, noting their societal influence and how they express diverse values regarding violence and its legitimization. (Cross-listed with RELI 4700).

**RELI 8836 ANCIENT GREEK MYTH, RELIGION & MAGIC (3 credits)**

Students will examine the impact of ancient Greek myth and belief on actual religious practice: e.g., "lived" religion. Areas covered include formal civic sacrifice, wartime religion, family and personal devotions, mystery cults, oracles and seers, plus the popular pursuit of magic. (Cross-listed with HIST 8836, HIST 4830, RELI 4830).



**RELI 8856 ROME AND THE EARLY CHURCH (3 credits)**

Students will cover Roman-Christian-Jewish interactions from just before the birth of Jesus of Nazareth to c. 450 CE, with an emphasis on social and political history. We catalogue Christianity's transformation from its origins as a Jewish movement and an illegal "superstition" to the dominant religion of the Roman empire. (Cross-listed with HIST 8856, HIST 4850, RELI 4850).

**Prerequisite(s):** Junior standing.

**RELI 8900 READINGS IN RELIGION (1-6 credits)**

An individually organized program of readings pertinent to one or more topics subordinate to the heading of Religion. To be carried out under the supervision of a member of the graduate faculty. May be repeated for credit when the topic varies.

**Prerequisite(s):** Graduate, permission of instructor, and no incompletes outstanding.

## Science, Tech, Engr, and Math (STEM)

### Science, Technology, Engineering, and Math Graduate Courses

**STEM 8020 MATHEMATICAL MODELING FOR SECONDARY TEACHERS (3 credits)**

This course will examine the mathematics underlying several problem situations found in a variety of societal settings. Mathematical models of problems in current literature will be examined and other models will be constructed based on data collected through course activities. Topics relevant to these problems will include function analysis, algebra, geometry, trigonometry and probability and statistics. The role of mathematics in society will be evidenced as problems considered will be timely and sources utilized will include original documentation whenever possible (i.e. recent research reports, government reports and publications). (Cross-listed with MTCH 8020).

**STEM 8030 EVOLUTION: FROM GENOMES TO ECOSYSTEMS (3 credits)**

This course will prepare students to evaluate and discuss evolution as an underlying concept in all of biology. Further, it will provide a comprehensive overview of evolutionary processes related to the evolution of genomes, development, physiology, morphology, behavior, and ecosystems. (Cross-listed with BIOL 8030).

**Prerequisite(s):** Courses for graduate admission or equivalent, or with permission of instructor.

**STEM 8040 TOPICS IN MATHEMATICAL COMPUTING (3 credits)**

This course focuses on the current state-of-the-art technology that is either designed for or is uniquely suitable for teaching mathematics. (Cross-listed with MTCH 8040)

**Prerequisite(s):** MATH 2200 or equivalent or approval of instructor.

**STEM 8050 DATA-DRIVEN DECISION MAKING FOR EDUCATORS (3 credits)**

This course provides graduate students with hands-on experiences that model data-driven decision making for educational success in today's classroom. Students will learn how to create valid and reliable assessments; interpret standardized test data; build data models that identify student, classroom, program, and school needs; and in general, to systematically enhance educational decision making from a base of carefully collected information. Graduate students will also explore data collection and analysis strategies associated with technologies such as cloud computing, tablet computers, and smart phones. In addition, they will experience data-driven decision-making models that can be integrated into student lessons to not only teach more effectively with data-driven decisions, but also to help teach students about data-driven decision-making. The course will use real data sets and cases, in interesting, hands on and technology-rich activities, to help educators learn how to find the "educational story" represented by a set of carefully collected data points. (Cross-listed with TED 8050).

**Prerequisite(s):** Graduate Standing.

**STEM 8170 ECOSYSTEM ANALYSIS FOR EDUCATORS (3 credits)**

This course is designed for education graduate students who wish to take a field-based biology course that uses an interdisciplinary approach to understanding the ecosystem of the tallgrass prairie. This course engages graduate students in methods reflecting multidisciplinary STEM strategies (e.g. scientific inquiry, modeling, geographic information system mapping, etc.) associated with research taking place at the Glacier Creek Preserve. Graduate students completing this course will develop advanced knowledge of ecology, restoration ecology, and monitoring of prairie habitat restoration. Graduate students will focus on the technical, biogeochemical, ecological and cultural aspects of analyzing and restoring the prairie ecosystem and its various habitats. (Cross-listed with BIOL 8170)

**Prerequisite(s):** Graduate Standing or Permission from the Instructor.

**STEM 8300 STEM TEACHING METHODS FOR DEVICE DESIGN (3 credits)**

STEM Teaching in Biomechanics focuses on principles in teaching including teaching models (Problem-Based, Team-Based, Inquiry-Based teaching), student assessment, classroom logistics/organization, and device design through a mentorship project. (Cross-listed with BMKI 9301, BMCH 8300).

**STEM 8370 DATA VISUALIZATION AND MODELING FOR EDUCATORS (3 credits)**

In the growing context of data informed decisions there is a need to answer "what if" questions in a variety of decision-making situations, as well as to display data both visually and interactively. This course will provide foundational skills in data visualization and modeling for educational decision making and instruction. It draws upon key fundamentals in data visualization (representing data trends visually) as well as key strategies in data modeling (interactive representations to explore possible outcomes). The course also explores the use of visualization and modeling technologies as well as assisting student learning with these tools. (Cross-listed with TED 8370).

**STEM 8410 IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS (3 credits)**

This course provides an in-depth study of instructional theory, research, and methodology designed to extend teachers' professional knowledge base and enhance their pedagogical skills. When offered, a course may be limited to improvement of instruction in a selected subject area. (Cross-listed with TED 8410).



**STEM 8420 TRENDS AND TEACHING STRATEGIES IN SCIENCE EDUCATION (3 credits)**

This course is designed for the graduate candidate in the Department of Teacher Education whose study program emphasis is in the area of science education. The course will describe and analyze past and present trends in science education, including curricula, teaching-learning strategies, the laboratory and instructional materials. The course focus will be K-12 and as such is meant to serve both elementary and secondary graduate candidates. (Cross-listed with TED 8420).

**Prerequisite(s):** Graduate standing.

**STEM 8430 SCHOOL CURRICULUM PLANNING (3 credits)**

This course is designed to provide advanced degree candidates with an understanding of the theory, principles, and practices utilized in curriculum planning in American schools. This course focuses on the principles and practices of effective curriculum planning and teachers' part in these processes as curriculum developers. (Cross-listed with TED 8430).

**STEM 8450 BIOLOGY EDUCATION RESEARCH METHODS (3 credits)**

In this course, students will learn the methods of conducting pedagogical research in Biology, understand how people learn the concepts, practices, and ways of thinking in science and engineering; understand the nature and development of expertise in a discipline; help identify and measure appropriate learning objectives and instructional approaches that advance students toward those objectives; contribute to the knowledge base in a way that can guide the translation of statistical findings to classroom practice; and identify approaches to make science and engineering education broad and inclusive. Students will work with live data sets to evaluate effective pedagogical approaches in the biology classroom of various audiences (K-16).

**STEM 8510 AEROSPACE EDUCATION WORKSHOP (3 credits)**

This course will focus on aviation and space education and its impact on society. It will seek to communicate knowledge, impart skill, and develop attitudes relative to the scientific, engineering and technical as well as the social, economic and political aspects of aviation and space flight efforts. (Cross-listed with TED 8510, AVN 8510)

**Prerequisite(s):** Graduate standing.

**STEM 8530 INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS (3 credits)**

This course is designed to provide graduate candidates with the opportunity to enhance interdisciplinary instructional strategies, curricular understanding, and lesson preparation in the areas of science, technology, engineering, the arts, and mathematics (STEAM) through analysis and reflective practices in STEAM. This course provides hands-on experiences that model STEAM integration techniques, including how to effectively engage with community agencies and partners to bring STEAM into the classroom. This course emphasizes not only the technical aspects of STEM, but also the creativity and innovation that arts integration can add to enhance STEM curriculum. Teacher professionals will be provided with tools, resources, and strategies to help them explore and enhance current, new, or supplemental curriculum activities that will enhance STEAM learning, student engagement, and motivation. (Cross-listed with TED 8530)

**Prerequisite(s):** This course includes both teacher education and STEAM related topics and therefore fits into both TED and STEM program coursework.

**STEM 8810 STEM CURRICULUM AND RESEARCH FOR ELEMENTARY AND EARLY LEARNERS (3 credits)**

This course will explore theoretical and foundational pedagogical strategies in elementary and early childhood used to deliver integrative STEM education in the preK-12 setting. In order to understand the research and practice of STEM disciplines in preK-12, it is necessary to examine the social, cultural, political, and functional aspects that influence them. Candidates will investigate the nature of STEM education, Early Childhood Education (ECE) pedagogy and perspectives of learning, content knowledge and dispositions for educators of STEM topics, and issues of access and equity for STEM education through literature, discussion, and practice. This course includes a community outreach component in which candidates will use qualitative methods to observe class topics in public settings. (Cross-listed with TED 8810)

**Prerequisite(s):** Graduate status

**STEM 8840 ENGINEERING EDUCATION EXTERNSHIP (3 credits)**

This graduate course will address the best practice of effective teaching and learning in Engineering Education through professional collaboration between K-12 STEM (Science, Technology, Engineering, and Mathematics) teachers and practicing engineering professionals. K-12 STEM teachers, as graduate students in the course, will learn about and address real-world applications and career opportunities in STEM education through the externship. K-12 STEM teachers will research and develop authentic, experiential learning opportunities and projects for the classroom through course supports associated with lecture, discussion, and partnerships with practicing engineering professionals. The externship will be integral to the K-12 STEM teachers' experiences and work in this course, as the course models effective professional collaboration founded on experience, knowledge, and skills to achieve a curriculum enhancement goal. (Cross-listed with TED 8840).

**Prerequisite(s):** Graduate status. Not open to non-degree graduate students.

**STEM 8860 INVENTION & INNOVATION IN ENGINEERING EDUCATION (3 credits)**

This course will address emerging trends in STEM education for in-service K-12 STEM teachers with a focus on the use of engineering education practices in teaching and learning content. STEM teachers will receive applicable, hands-on, classroom-ready experiences through lecture, professional instruction, and projects that will emphasize product design and creation through the Engineering Design Process. The Engineering Design Process will be central to the candidates' experiences in this course and will be used by the candidates to develop curriculum utilizing emerging trends to supplement current course content and standards. Interdisciplinary planning will be central to the course. (Cross-listed with TED 8860)

**Prerequisite(s):** Graduate status is required.

**STEM 8910 CAPSTONE IN CS EDUCATION (3 credits)**

This course will allow graduate students, as an individual or as part of a group, to study and analyze specific problems related to teaching computing in schools. Projects will be concerned with the curriculum and/or instruction of computing and should address a broad scope of application rather than a specific level. (Cross-listed with CSTE 8910).

**Prerequisite(s):** Student must have completed 21 hours in the Masters of CS Education program.

# Social Work (SOWK)

## Social Work Graduate Courses

### **SOWK 8016 SOCIAL WORK WITH AMERICAN INDIANS (3 credits)**

This course provides the student with a broad study of the historical origins, influences and issues of American Indians in relation to social work practice. The application of generalist social work methods are explored, including anti-racism, diversity, equity, and inclusion (ADEI) framework. The student will learn and understand the political identities of American Indians, which are unique to this population. Methods of intervention applicable to American Indian populations and communities are reviewed, giving special attention to practice across the lifespan. (Cross-listed with SOWK 4010).

**Prerequisite(s):** SOWK 8130 or Advanced Standing. Not open to non-degree graduate students.

### **SOWK 8026 SOCIAL WORK WITH BLACK FAMILIES (3 credits)**

This course seeks to develop in students an awareness and understanding of some of the social and psychological/cognitive realities influencing the behavior of African American youth and families across the lifespan. The content draws upon theories, research and social work practice skills relevant to African American youth and families, as well as the cognitive process and social systems which impact African youth and families. (Cross-listed with SOWK 4020).

**Prerequisite(s):** SOWK 8130 or admitted as Advanced Standing

### **SOWK 8036 SOCIAL WORK WITH LATINOS (3 credits)**

The purpose of this course is to study and analyze cross-cultural social work practice with Latino populations. Students will learn what factors impact Latino communities and what skill sets are essential for diverse social work practice. (Cross-listed with SOWK 4030).

**Prerequisite(s):** SOWK 8130 or Advanced Standing

### **SOWK 8046 WORKING WITH MINORITY ELDERLY (3 credits)**

This course is designed to provide the student with knowledge of the differing status, attitudes, and experiences of older adults who identify as members of minority groups in the U.S. This course examines various social policies, service systems, and practice models in terms of their relevance and effectiveness in meeting the needs of an increasing and diverse aging population. (Cross-listed with GERO 4690, GERO 8696, SOWK 4040).

### **SOWK 8056 ETHNIC DIVERSITY AND SOCIAL WORK PRACTICE (3 credits)**

This course focuses on effective social work practice with ethnic diversity. Students critically examine different theoretical frameworks to understand ethnic diversity. Current major ethnic groups in American society are explored regarding demographics, history, worldviews, cultural traditions, and social welfare. The goal is to deepen student's basic knowledge, skills, and values of ethnic diversity in relation to family structure, gender roles, care giving, and help-seeking behaviors. In addition, attention is given to immigrants, refugees, and persons who identify as multi-ethnic. (Cross-listed with SOWK 4050)

**Prerequisite(s):** SOWK 8130 or Advanced Standing

### **SOWK 8066 MEDICAL SOCIAL WORK (3 credits)**

This course is an introduction to medical social work. BSSW and MSW students will focus on the knowledge base and practice skills needed to assess the holistic care of patients and their families. This course prepares students to 1) understand healthcare disparities and needs of individuals and their family, 2) apply theory and models of patient-centered care delivery, 3) develop skills for working on interprofessional teams, 4) formulate ideas for addressing barriers and improving health care access. (Cross-listed with SOWK 4060).

**Prerequisite(s):** SOWK 8130 or Advanced Standing

### **SOWK 8070 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (3 credits)**

This course is the first part of a two-semester sequence within the MSW required curriculum. It focuses on major contributions of theories from the biological, social, and behavioral sciences that help to understand human functioning across the lifespan, within the social environment at the micro- and macro-level (e.g., individuals, families, groups, organizations, institutions, and communities), as they relate to effective social work generalist practice.

**Prerequisite(s):** Admission to MSW Program

### **SOWK 8080 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (3 credits)**

This course is the second part of a two-semester sequence within the MSW required curriculum. It focuses on major contributions of theories from the biological, social, and behavioral sciences that help to contextualize human functioning across the lifespan at the mezzo and macro levels of practice. Building upon developmental and lifespan theories introduced in HBSE I, this course allows the student to evaluate individual dynamics as they exist in mezzo and macro spaces. This class will also expose the student to contemporary issues of social justice, allowing the student to meaningfully connect learning to real-world practice.

**Prerequisite(s):** SOWK 8070

### **SOWK 8090 SOCIAL WELFARE POLICY (3 credits)**

This course is an introduction to social welfare policy analysis. The course examines social welfare policy considering historical, political, economic, social, and cultural perspectives. Basic concepts and choices are examined in relation to values, ethics, context, social functioning and social consequences.

**Prerequisite(s):** Admission to MSW

### **SOWK 8110 INSTITUTIONAL OPPRESSION (3 credits)**

This course examines institutional racism, sexism, and classism as it relates to social policy and social injustice. The focus is on how institutional oppressions are related and are mutually reinforcing. The consequences of institutional racism, sexism and classism are examined at the individual, group, family, and agency levels.

**Prerequisite(s):** Admission to MSW

### **SOWK 8130 GENERALIST PRACTICE I (3 credits)**

This course provides an introduction to the values, ethics, knowledge, and skills of generalist social work practice. Using constructs from the Generalist Intervention Model, systems theory, and the strengths-based perspective, students learn about engagement, assessment, planning and contracting, intervention, evaluation, and termination. Diversity and case management are emphasized as part of bringing planned change to client systems, including individuals, families, and small groups.

**Prerequisite(s):** SOWK 8070 prior/concurrent.

### **SOWK 8150 GENERALIST PRACTICE II (3 credits)**

This practice course is an introduction to a goal-oriented planned change process with an emphasis on task groups, organizations, and communities. The focus is on building knowledge and developing indirect practice skills in collaboration, planning, empowerment, and advocacy to effect social change using the Generalist Intervention Model.

**Prerequisite(s):** SOWK 8130 prior and SOWK 8080 prior/concurrent

### **SOWK 8160 GENERALIST SOCIAL WORK FIELD PRACTICUM I (3 credits)**

This course is designed to provide supervised, individual, and experiential learning offered within the setting of a selected social service agency. The student is introduced to a variety of social work practice roles, develop professional relationships with client systems and learn to apply different interventions to effect change across the life span. In order to facilitate integration of classroom theory with practice, students will attend a seven-week field practicum lab/seminar (2 hours every other week in spring/fall; every week in summer).

**Prerequisite(s):** SOWK 8070 and SOWK 8130 prior and SOWK 8090 prior/concurrent. Not open to non-degree graduate students.

**SOWK 8170 GENERALIST SOCIAL WORK FIELD PRACTICUM II (3 credits)**

This course is designed to provide supervised, individual, and experiential learning offered within the setting of a selected social service agency. The student is introduced to a variety of social work practice roles, develop professional relationships with client systems and learn to apply different interventions to effect change across the life span. In order to facilitate integration of classroom theory with practice, students will attend a seven-week field practicum lab/seminar (2 hours every other week in spring/fall; every week in summer).

**Prerequisite(s):** SOWK 8080, SOWK 8110, SOWK 8150, and SOWK 8160 prior/concurrent. Not open to non-degree graduate students.

**SOWK 8190 RESEARCH & COMPUTER APPLICATIONS (3 credits)**

This course focuses on the use of research and computer programs in social work practice. Social and behavioral science research methods are reviewed. Students learn to write literature reviews and analyze existing data using Excel. The uses of Microsoft Word, and Excel in social work practice are explored.

**Prerequisite(s):** Admission to MSW

**SOWK 8220 CLINICAL SOCIAL WORK WITH INDIVIDUALS (3 credits)**

This advanced course provides an in-depth study of several theories of personality and behavior, and of therapeutic approaches derived from the theories. Major focus is on therapy with individuals across the life span, but application to family systems is also considered, as well as the fit of each theory within the broader social systems framework.

**Prerequisite(s):** SOWK 8290

**SOWK 8230 CLINICAL SOCIAL WORK WITH GROUPS (3 credits)**

This advanced course provides knowledge of and experience in working with groups as systems. It includes both assessment of dynamics as well as developing skills in intervention modalities appropriate for working with various types of groups.

**Prerequisite(s):** SOWK 8170 or Advanced Standing and SOWK 8220 or SOWK 8290

**SOWK 8240 SOCIAL WORK PRACTICE WITH CHILDREN (3 credits)**

This advanced practice course provides an overview of several social work interventions used with children and adolescents. A brief review of normal child development and the family life cycle is the context for presenting a range of children's problems and special needs. The course will cover several intervention models and address their application in various service settings and in individual, family, group, and social action formats. Children in diverse family settings, institutions, and in minority families and cultures are considered to understand unique therapeutic issues present for them.

**Prerequisite(s):** SOWK 8170 or Advanced Standing and SOWK 8220 or SOWK 8290

**SOWK 8250 SOCIAL WORK PRACTICE WITH FAMILIES (3 credits)**

This course considers the family context as a system for therapeutic intervention. The family unit and its diverse forms are defined; theories for assessment and understanding family's interactions across the lifespan are considered, and the alternative modalities useful for treating family dysfunction are presented. As a practice-oriented course, it emphasizes the development of professional skills in working with the family across the lifespan.

**Prerequisite(s):** SOWK 8170 or Advanced Standing and SOWK 8220 or SOWK 8290

**SOWK 8260 SOCIAL WORK PRACTICE WITH OLDER ADULTS (3 credits)**

This course is part of the advanced MSW curriculum and focuses on micro- and macro-level practice skills essential to competent and effective social work practice with older adults of diverse backgrounds. This course emphasizes intervention and creative programming. Social marketing, community organizing, networking, and collaborating with interprofessional community practitioners in relation to this population.

**Prerequisite(s):** SOWK 8170 or Advanced Standing and SOWK 8220 or SOWK 8290

**SOWK 8270 SOCIAL WORK PRACTICE WITH SEXUAL CONCERNS (3 credits)**

This course provides a survey of the current knowledge base, theory and research in human sexuality with a focus on advanced practice intervention and prevention approaches for a variety of sexuality issues faced by individuals, couples, and families throughout the lifespan.

**Prerequisite(s):** SOWK 8170 or Advanced Standing and SOWK 8220 or SOWK 8290

**SOWK 8280 SOCIAL WORK PRACTICE WITH COUPLES AND CHANGING FAMILY STRUCTURES (3 credits)**

This is an advanced practice course designed to prepare students to provide therapy for couples and families at all life stages who are experiencing problems in intimacy, marital, divorce, or remarriage adjustment.

**Prerequisite(s):** SOWK 8170 or Advanced Standing and SOWK 8220 or SOWK 8290

**SOWK 8290 SOCIAL WORK PRACTICE IN HEALTH AND MENTAL HEALTH (3 credits)**

This master-level graduate course delves into the intricacies of client engagement, assessment, and the development of mental health diagnoses using the latest edition of the Diagnostic and Statistical Manual of Mental Disorders. Students will explore evidence-based assessments and interventions while focusing on the art and science of comprehensive case conceptualization. Through a combination of theoretical discussions, practical exercises, and case studies, students will gain the skills necessary for conducting thorough assessments, engaging clients collaboratively, and formulating accurate and nuanced diagnoses. Emphasis will also be placed on integrating social work perspectives, cultural humility, and anti-racist practices throughout the assessment and diagnosis process.

**Prerequisite(s):** SOWK 8170 or Advanced Standing. Not open to non-degree graduate students.

**SOWK 8400 ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM I (3 credits)**

This course is designed to provide supervised, individual, and experiential learning offered within the setting of a selected social service agency. The student will be introduced to a variety of social work practice roles, develop professional relationships with client systems and learn to apply different interventions to effect change across the life span.

**Prerequisite(s):** SOWK 8230 and SOWK 8290 prior/concurrent and no more than 12 credits left in program. Not open to non-degree graduate students.

**SOWK 8410 ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM II (3 credits)**

This course is designed to provide supervised, individual, and experiential learning offered within the setting of a selected social service agency. The student will be introduced to a variety of social work practice roles, develop professional relationships with client systems and learn to apply different interventions to effect change across the life span. This course builds upon opportunities provided and competence achieved in Advanced Social Work Practicum I.

**Prerequisite(s):** SOWK 8400 prior/concurrent. Not open to non-degree graduate students.

**SOWK 8420 ADVANCED GENERALIST SOCIAL WORK FIELD PRACTICUM III (1-3 credits)**

This course is designed to provide a third supervised, individual professional learning experience offered within the setting of a selected social service agency. This course builds upon opportunities provided and competence achieved in Advanced Social Work Practicum II. Requires 85 hours of practicum for each credit hour the student elects to take.

**Prerequisite(s):** SOWK 8410 prior/concurrent and permission of the school

**SOWK 8510 ETHICS, SUPERVISION, AND LEADERSHIP IN THE SOCIAL WORK PROFESSION (3 credits)**

This course provides social workers with the knowledge and skills to be leaders in their organizations and communities. This course will explore leadership models and theories, and their usefulness in diverse settings, including social work leadership ethics. Students will also learn models and theories related to general supervision, power, and authority in public and nonprofit organizations. Useful skills covered include conflict management and evidence-informed decision-making. The course examines various contexts of practice and the influence of politics, economics, technology, and socio-cultural factors within leadership and supervisory practice. Students will also learn about care of self and others, especially as it relates to resiliency and vicarious trauma.

**Prerequisite(s):** SOWK 8170 or Advanced Standing

**SOWK 8516 TREATMENT ISSUES IN CHEMICAL DEPENDENCY (3 credits)**

This course addresses chemical dependency treatment issues including denial, minimization, relapse and its prevention, resistance, family dynamics, poly-substance abuse, co-occurring disorders, spirituality and the influence of self-help groups. The education will include the clinical treatment needs of individuals suffering from chemical dependency, taking into consideration diversity, gender, culture and lifestyle. (Cross-listed with COUN 4510, COUN 8516, SOWK 4510).

**Prerequisite(s):** Admission to counseling program or social work programs or permission of instructor. For social work students, SOWK 8686 or COUN 8696 and SOWK 8696 or COUN 8696 must be taken prior to COUN 8516 or SOWK 8516. Not open to non-degree graduate students.

**SOWK 8536 SCHOOL SOCIAL WORK (3 credits)**

This course explores the field of social work practice in school settings. Major topics include: history of social work practice in schools; the school environment; roles of school social workers; mandated foundations for school social work services; eligibility for special education and 504 plans; theories of practice that include school and community based models; and interventions for target populations in schools. (Cross-listed with SOWK 4530).

**Prerequisite(s):** SOWK 8130 or Advanced Standing

**SOWK 8540 PLANNING FOR SOCIAL CHANGE (3 credits)**

This course takes an in-depth look at the framework of macro-level problem solving and its application to all areas of social work practice. Focus will be placed on the critical exploration of social problems, their causes, and their potential solutions from a lens of broader social inequity.

**Prerequisite(s):** SOWK 8170 or Advanced Standing. Not open to non-degree graduate students.

**SOWK 8550 SOCIAL JUSTICE AND SOCIAL ADVOCACY (3 credits)**

This course provides a perspective on national and international social, economic, and environmental injustices experienced by people under corporate globalization. Practice implications for social workers are addressed.

**Prerequisite(s):** SOWK 8130 or Advanced Standing. Not open to non-degree graduate students.

**SOWK 8560 ADVANCED COMMUNITY PRACTICE (3 credits)**

This course is an elective macro course in the MSW curriculum. The course is designed to help students develop an analytical and empirical approach to empowering communities. The course builds on the social work "person-in-environment" perspective by examining the client system and its environmental contexts. The course may use a community-based service-learning or social action pedagogy.

**Prerequisite(s):** SOWK 8170 or Advanced Standing. Not open to non-degree graduate students.

**SOWK 8570 ADMINISTRATION OF SOCIAL WELFARE AGENCIES (3 credits)**

This course focuses on the knowledge and skills needed by administrative leaders of social welfare agencies. Students will learn about resource issues, including grant writing, fundraising, budgeting, and financial management. Acknowledging political contexts and shaping organizational culture will also be covered. In addition, they will learn about personnel and managerial issues related to collaboration, human relations, governing/advisory boards, and strategic planning.

**Prerequisite(s):** SOWK 8170 or Advanced Standing

**SOWK 8600 PERMANENCE FOR CHILDREN (3 credits)**

This course is about the child welfare system and focuses on policies, laws, and agency structures designed to help abused and neglected children and their families.

**Prerequisite(s):** SOWK 8130 or Advanced Standing

**SOWK 8610 FAMILY AND COMMUNITY VIOLENCE (3 credits)**

This course covers family and community violence across the lifespan within a comprehensive framework for understanding effective services in various settings. Students will examine the major types of family and community violence and their impact on individual, family, and societal functioning. This course will explore ways in which social advocacy has advanced contemporary responses to marginalized populations experiencing violence.

**Prerequisite(s):** SOWK 8130 or Advanced Standing

**SOWK 8626 TRAUMA AND RESILIENCE (3 credits)**

This course provides an overview of issues related to trauma including: the factors related to development of trauma, definitions of trauma, the impact of trauma on individuals, families and communities, and the programs and practices that are most effective and appropriate regarding the social work role in responding to trauma. (Cross-listed with SOWK 4620)

**Prerequisite(s):** SOWK 8130 or Advanced Standing

**SOWK 8646 PERMANENCE FOR CHILDREN (3 credits)**

This course examines the history, challenges, and issues of governmental intervention in families to protect at-risk children. The course concentrates on the effects of social policies, like the 1980 federal legislation (PL 96-272) on child welfare delivery systems and practices. It provides a comprehensive overview of child welfare services, including child protective services, in-home services, foster care, group care, intergenerational childcare, and adoption. It also provides an overview of the juvenile justice system and its impact on children and their families. (Cross-listed with SOWK 4640).

**Prerequisite(s):** SOWK 8130 or Advanced Standing

**SOWK 8650 HEALTH/MENTAL HEALTH POLICIES FOR SOCIAL WORK (3 credits)**

This course emphasizes the development of health and mental health policy analysis skills and knowledge for social work students. Major topics include government response to health care, cultural and historical perspectives, service provision, and epidemiological trends across the life span. It provides a framework for clinical interventions in a variety of health and mental health settings.

**Prerequisite(s):** SOWK 8090 or Advanced Standing

**SOWK 8686 MEDICAL AND PSYCHOSOCIAL ASPECTS OF SUBSTANCE USE DISORDERS (3 credits)**

This course introduces students to substance use disorders and their impact on the individual, family, and society. It covers psychopharmacology, alcohol and drug interactions, drug classifications, theories of substance use disorders, various models of treatment, vulnerable populations, and ethical and legal issues. (Cross-listed with SOWK 4680, COUN 4680, COUN 8686)

**Prerequisite(s):** Admission to counseling program or social work program or permission of instructor.



**SOWK 8696 ASSESSMENT AND CASE MANAGEMENT IN SUBSTANCE USE DISORDERS (3 credits)**

This course focuses on assessment of clients and their environment, and diagnosis and referral for substance use disorder treatment. Emphasis is given to assessment instruments, treatment levels, treatment planning, case management, and social justice. (Cross-listed with COUN 4690, COUN 8696, SOWK 4690).

**Prerequisite(s):** Admission to the MSW Program

**SOWK 8806 SOCIAL WORK AND THE LAW (3 credits)**

This course presents the fundamental principles of criminal and civil law that have relevance to the practice of social work. Topics include the legal system; legal research methods; professional ethical/legal responsibilities and liabilities; family law; elder law; criminal law; juvenile law; personal injury law; employment discrimination law; capacity to make contracts and wills; rights of institutionalized patients; and rights of children with disabilities to an education. (Cross-listed with SOWK 4800)

**Prerequisite(s):** SOWK 8130 or Advanced Standing

**SOWK 8816 SPIRITUALITY AND SOCIAL WORK PRACTICE (3 credits)**

This course examines major issues and basic concepts pertaining to spirituality and social work practice. This course applies critical thinking to deepen understanding of spirituality in relation to clients of diverse religious and secular perspectives. The goal is to develop students' professional use of self and spirituality as the human striving for meaning, purpose, and wellbeing. Classroom time is organized around lectures, field trips, and reflective assignments. (Cross-listed with SOWK 4810)

**Prerequisite(s):** SOWK 8130 or Advanced Standing

**SOWK 8826 GLOBAL ENGAGEMENT: A SOCIAL WORK PERSPECTIVE (3 credits)**

This course prepares students to work in a global setting. Students examine theories, concepts, and skills related to social development, cross-cultural engagement, and issues related to particular countries. The course is designed with two elements: 1) On-campus classroom learning focused on global social work knowledge, and, 2) Field-based labs that involve direct engagement with an international population. Students select one lab: i) faculty-led trip to China for two-weeks, ii) refugee resettlement service-learning project in Omaha. (Cross-listed with SOWK 4820).

**Prerequisite(s):** Admitted to Graduate College. Travel overseas early summer-course lab. Passport, visa-China, travel insurance-UNO, immunizations and registration (International Studies) required to travel abroad. Faculty member leading trip to provide further info.

**SOWK 8836 CRISIS INTERVENTION (3 credits)**

Students will study Robert's 7-Stage Model of Crisis Intervention and how to ethically practice with diverse and vulnerable populations. Students will apply crisis intervention theory and models of intervention to various concern areas including but not limited to suicide, sexual assault, domestic violence, substance abuse, grief and loss, and violence. A systems, strengths, and cultural emphasis will be applied to the various crisis situations covered. (Cross-listed with SOWK 4830)

**Prerequisite(s):** SOWK 8130 or Advanced Standing

**SOWK 8856 HOSPICE & OTHER SERVICES FOR THE DYING PATIENT/FAMILY (3 credits)**

This course examines the hospice concept and other related services available in the community. The student will learn that hospice is an alternative to the traditional medical model. (Cross-listed with GERO 4850, GERO 8856, SOWK 4850.)

**Prerequisite(s):** SOWK 8130 or advanced standing

**SOWK 8880 TOPICAL SEMINAR IN SOCIAL WORK (3 credits)**

Specific seminar topics will focus on advanced content in social work theory and practice. The course description will be announced when a specific topical seminar is proposed. The topics selected will be consistent with School of Social Work program objectives, faculty expertise, and student needs. This course may be repeated for up to nine hours credit.

**SOWK 8886 TOPICAL SEMINAR IN SOCIAL WORK (3 credits)**

Specific seminar topics will focus on advanced content in social work theory and practice. The course description will be announced when a specific topical seminar is proposed. The topics selected will be consistent with the Grace Abbott School of Social Work program objectives, faculty expertise, and student needs. (Cross-listed with SOWK 4880)

**Prerequisite(s):** Admission to the MSW Program

**SOWK 8900 SPECIAL STUDIES IN SOCIAL WELFARE (1-3 credits)**

This independent study course allows students to pursue a special selected area or topic within social welfare in order to deepen knowledge and/or skills in that particular area.

**Prerequisite(s):** Permission of the School. Not open to non-degree graduate students.

**SOWK 8940 EVALUATION OF SOCIAL PROGRAMS (3 credits)**

This is an advanced research course in the evaluation of social programs and social agencies which focuses on agency organizational structure, program design and effectiveness, and social impact.

**Prerequisite(s):** SOWK 8190

**SOWK 8950 RESEARCH METHODS IN CLINICAL PRACTICE (3 credits)**

This course provides a study of the issues involved in clinical research methodology. Students are introduced to the tools for documenting the effects of clinical practice interventions for individuals, couples, families and groups (including qualitative and quantitative methodologies: single-case design, standardized measurement, self-report data, self-monitoring, case study, grounded theory etc.).

**Prerequisite(s):** SOWK 8190 and SOWK 8220

**SOWK 8960 RESEARCH OTHER THAN THESIS (3 credits)**

This course provides a study of the issues involved in clinical research methodology. Students are introduced to the tools for documenting the effects of clinical practice interventions for individuals, couples, families and groups (including qualitative and quantitative methodologies: single-case design, standardized measurement, self-report data, self-monitoring, case study, grounded theory etc.).

**Prerequisite(s):** Permission of the School

**SOWK 8990 MASTER'S THESIS (3-6 credits)**

The Master's thesis provides students the opportunity to acquire first-hand experience in research methods under faculty direction. With the guidance of the thesis coordinator and a supervisory committee, the student prepares a formal research proposal, gains IRB approval, conducts the proposed study, and prepares a detailed report of the purpose, design, results, and implications of the findings. The student will present the thesis in an oral defense to the thesis coordinator and supervisory committee.

**Prerequisite(s):** Permission of the School

## Sociology (SOC)

### Sociology Graduate Courses

**SOC 8000 SEMINAR IN APPLIED SOCIOLOGY AND ANTHROPOLOGY (3 credits)**

An overview of the field of applied sociology and anthropology with special attention to social processes in the application of social science to solving problems in for-profit and not-for-profit sectors. Special emphasis is placed on the use of sociological and anthropological theories and methods to work collaboratively with clients, organizations, and communities, and to ethically engage with stakeholder communities.

**Prerequisite(s):** Graduate standing or permission of instructor



**SOC 8010 CLASSICAL SOCIOLOGICAL THEORY (3 credits)**

This course surveys the nineteenth century writers whose ideas have had a strong influence on the development of contemporary sociology and sociological theories. It examines work in such areas as: structural functionalism; conflict theory; rationalism; and the beginnings of modern symbolic interaction, feminist, and race theory. The course emphasizes a close reading of original texts, as well as seminar-style class discussions.

**Prerequisite(s):** Graduate; permission of instructor if outside Sociology MA program.

**SOC 8020 CONTEMPORARY SOCIOLOGICAL THEORY (3 credits)**

This course reviews some of the most important developments in contemporary sociological theory. It examines work in such areas as: symbolic interactionism, phenomenology and ethnomethodology; dramaturgical analysis; functionalism and neo-functionalism; structuralism, post-structuralism and postmodernity; postcolonial and subaltern studies; neo-marxism; critical theory; critical race studies; feminist theory; cultural theory; and world systems and globalization theory. The course emphasizes a close reading of original texts, as well as seminar-style class discussions.

**Prerequisite(s):** Graduate; permission of instructor if outside Sociology MA program.

**SOC 8030 APPLIED RESEARCH DESIGN AND METHODS (3 credits)**

This course focuses on the research design process from an applied social science perspective. Students will practice using diverse methodologies from sociology and anthropology using a hands-on, problem-based approach. Topics covered include the logic of scientific inquiry, qualitative and quantitative research approaches, mixed-methods research designs, community-based participatory research, evaluation research, and ethics in applied social science research.

**Prerequisite(s):** Graduate standing; undergraduate course in research methods; permission of instructor if outside Sociology MA program.

**SOC 8040 APPLIED DATA ANALYSIS & INTERPRETATION (3 credits)**

This course provides an overview of quantitative and qualitative data analysis and interpretation in applied settings utilizing a hands-on, problem-based approach. Emphasis is placed on understanding data analyses and visualizations, effective interpretation of data, and using data to address real-world problems. Students will learn how translate findings into actionable insights for data-driven decision making, transform data into a captivating narrative, and craft compelling data stories that resonate with diverse audiences.

**Prerequisite(s):** Graduate standing; undergraduate statistics course; permission of instructor if outside Sociology MA program.

**SOC 8050 SEMINAR ON TEACHING: PEDAGOGICAL THEORY AND PRACTICE (3 credits)**

A survey of various approaches to teaching at the college level (including critical, feminist, and other pedagogical theories) as well as strategies that can be employed in teaching. Topics include: syllabus and course design, evaluation and assessment strategies, developing a teaching style and philosophy, and the scholarship of teaching and learning. Emphasis is on preparing new teachers in sociology, but the course is intended for any graduate student who may already be teaching or anticipates teaching in the future.

**Prerequisite(s):** Enrollment in the graduate program in sociology or permission of the instructor.

**SOC 8070 APPLIED THEORY (3 credits)**

The objective of this course is to familiarize students with central theoretical questions in sociology and anthropology as well as develop and sharpen students' ability to apply theory to contemporary issues and practice. This class emphasizes the practical application of theoretical concepts such as culture, social structure, social inequality, social change, and research methods in concrete settings. Using case studies and practical exercises we apply theory to specific social issues and discuss the role of theory in applied research.

**Prerequisite(s):** Graduate standing; undergraduate theory course; permission of instructor if outside Sociology MA program

**SOC 8100 SOCIAL INEQUALITY (3 credits)**

This course examines social inequality from a sociological vantage point. Students will review theoretical frameworks for studying social inequality, processes that result in the unequal distributions of individual resources, empirical analyses of inequality, and the consequences of various inequalities for intergenerational social mobility. While the course focuses on inequality in the United States, global and international dimensions of social inequality are also covered.

**Prerequisite(s):** Graduate; permission of instructor if outside of Sociology MA program

**SOC 8136 SOCIOLOGY OF DEVIANCE (3 credits)**

This course introduces students to the sociological study of behaviors that have been labeled as "deviant" because they presumably violate social norms. The course takes a constructionist approach, critically analyzing how deviance is socially defined, organized, and managed. Students will be challenged to see the diversity and pervasiveness of deviance in society and to question the labelling of behaviors, individuals, and powerless groups as deviant. We will explore the social processes, powerful actors, and social institutions that create deviance as well as efforts to resist definitions of deviance. (Cross-listed with SOC 4130).

**Prerequisite(s):** Graduate standing.

**SOC 8146 URBAN SOCIOLOGY (3 credits)**

This course examines classical and contemporary sociological theories on city formation, the urbanization process, and the interaction of society and the built environment. Topics covered include suburbanization, gentrification, residential segregation, social networks, crime, housing, city culture, and public policy. The focus is on U.S. cities with selected comparisons to other world regions. Students will also get basic knowledge and exposure to research methods to study urban areas locally. (Cross-listed with SOC 4140).

**Prerequisite(s):** Graduate standing, or permission of instructor

**SOC 8156 AMERICAN FAMILY PROBLEMS (3 credits)**

This course explores the problems and issues faced by contemporary American families, such as racism and sexism; the challenges of childhood and adolescence; divorce and remarriage; work and family conflict; and family violence. The difficulty of defining both "family" and "problems" is addressed throughout the course. (Cross-listed with SOC 4150)

**Prerequisite(s):** Not open to non-degree graduate students.

**SOC 8176 SOCIOLOGY OF FATHERHOOD (3 credits)**

This course examines the existing social science research on fatherhood, exploring topics such as the evolution, history, demography, and politics of fatherhood; father involvement and its relationship to both children's and men's well-being; the effects of diversity and family structure on fatherhood; and public policy surrounding fatherhood. (Cross-listed with SOC 4170)

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**SOC 8186 OCCUPATIONS & CAREERS: FULFILLMENT AND CHALLENGES AT WORK (3 credits)**

This course examines what makes individuals and groups happy and satisfied with their jobs, and the factors that can turn "a dead-end job" into a meaningful pursuit that lasts decades. The course utilizes a life course approach and covers early socialization experiences to retirement transitions. It also employs a sociological lens to explore how individual experiences in the work realm are affected by stratification (such as race/ethnicity, gender, sexuality, social class, and parental status) and as well as by occupational norms and structures, workplace relationships, and culture and practices at the organizational and societal levels. (Cross-listed with SOC 4180).

**Prerequisite(s):** Enrollment in sociology graduate program or permission of the instructor.

**SOC 8200 HEALTH & SOCIETY (3 credits)**

The course provides a critical sociological understanding of health, illness, healing, and medical care within a social context. The focus ranges from examining health and illness behavior and patient-provider interaction to issues addressing the social organization of health care and medicine.

**Prerequisite(s):** Graduate standing.

**SOC 8216 DISABILITY AND SOCIETY (3 credits)**

This course takes a sociologically grounded but interdisciplinary look at the past, present, and potential future of disability. Along the way, competing models and theories of disability are critically explored and substantive issues pertaining to the social experiences and social responses to people with disabilities are discussed. (Cross-listed with SOC 4210)

**Prerequisite(s):** SOC 1010 and junior or senior standing; or permission of instructor. Not open to non-degree graduate students.

**SOC 8246 SOCIAL TRANSFORMATIONS IN LATIN AMERICA (3 credits)**

The course reviews the main social, economic, and political forces that have shaped Latin American societies, and the sociological theories used to understand Latin American development and underdevelopment. Race, ethnicity, gender and class in Latin America, as well as the region's position in the global economy are examined. (Cross-listed with SOC 4240, LLS 4240, LLS 8246).

**Prerequisite(s):** Graduate standing or permission of instructor.

**SOC 8256 RESEARCHING LATIN AMERICAN MIGRATIONS (3 credits)**

In this course we will use an interdisciplinary lens to study the changes and continuities of migration in the Americas. The course starts with an overview of immigration to the Americas during the first era of mass migration (1850-1920) to explore the relevance of European migrations for national and identity constructions in the Southern Cone of America. Students then will be introduced to the impacts of social and political change on emigration flows, both regionally and beyond the region. They will also explore migration related policies at the national and regional level. We will also study the changes and continuities in the migration system of the Americas. Lastly, we will analyze the new North-South migration, as well as immigration to Latin America from Asia (recent and historical), Europe, and Africa. (Cross-listed with SOC 4250, LLS 4250, LLS 8256).

**Prerequisite(s):** Graduate standing

**SOC 8306 SOCIOLOGY OF AGING (3 credits)**

This course will introduce students to important theories and concepts in the sociological study of aging and give deeper understanding of the experiences that people encounter as they grow older, including retirement, disease and disability, and long-term care. In addition to exploring the challenges faced by older adults, this course will focus on factors that contribute to successful aging. (Cross-listed with GERO 4440, GERO 8446, SOC 4300).

**SOC 8316 SOCIOLOGY OF SEXUALITIES (3 credits)**

This class focuses on the social construction of sexualities - especially heterosexual sexualities, bisexual sexualities, and homosexual sexualities. A primary focus of the class will be LGBT/Queer Studies. The class examines how sexual desires/identities/orientations vary or remain the same in different places and times, and how they interact with other social and cultural phenomenon such as government, family, popular culture, scientific inquiry, and race, gender, and class. (Cross-listed with SOC 4310)

**Prerequisite(s):** Not open to non-degree graduate students.

**SOC 8356 WORK & FAMILY (3 credits)**

This course examines the contemporary problems that individuals, families and communities in the U.S. have in integrating work and family/personal life. (Cross-listed with SOC 4350)

**SOC 8416 QUALITATIVE METHODS (3 credits)**

This course familiarizes students with contemporary qualitative methodologies and techniques by which the social sciences explore social and cultural relations in natural settings. Students will conduct individual and/or group field projects. (Cross-listed with SOC 4410).

**Prerequisite(s):** Graduate standing or permission of the instructor

**SOC 8446 HUMAN CONNECTION, LONELINESS, & HEALTH (3 credits)**

This course examines the "loneliness epidemic" through a sociological perspective and is based on the premise that loneliness is a public health issue, as research consistently shows it is associated with a vast array of physical and mental health outcomes. After discussing the extent of loneliness and how to define it by distinguishing it from other types of social pain, the course covers: 1) the extent and nature of loneliness and its cultural/social sources; 2) the pathways from loneliness to health outcomes; and 3) possible interventions to reduce loneliness and improve public health. (Cross-listed with SOC 4440).

**Prerequisite(s):** Graduate standing.

**SOC 8476 SOUTH AFRICA & THE SOCIO POLITICS OF APARTHEID (3 credits)**

South Africa and the Socio Politics of Apartheid examines the lived experiences of South African people under the Apartheid system, and their long struggle against European colonial oppression and racial segregation throughout the 20th century. Students will examine the laws, tools, and strategies that developed and sustained Apartheid, and the anti-Apartheid movements and international pressure that led to its repeal and South African democratic elections. (Cross-listed with BLST 8476, BLST 4470, PSCI 8476, PSCI 4470, SOC 4470).

**Prerequisite(s):** Graduate standing

**SOC 8500 COMPLEX ORGANIZATIONS (3 credits)**

This graduate seminar provides an overview focused on the understanding and analysis of intricate internal and external organizational forces such as organizational bureaucracy, organizational culture, autonomy and control systems, which affect performance of organizational members as well as influence organizational survival. (Cross-listed with CACT 8500)

**Prerequisite(s):** Graduate enrollment or permission of class instructor.

**SOC 8550 ORGANIZATIONAL CULTURE (3 credits)**

This course will discuss the various dimensions of organizational cultures and their consequences to organizational life. Emphasis will be placed on the significance of culture to human behavioral patterns, and the analysis of how organizational cultures shape the behavior and performance of organizational members. The course will prepare students for leadership success in organizations using advanced knowledge of organizational culture.

**Prerequisite(s):** Graduate standing or permission of instructor.

**SOC 8556 ORGANIZATIONAL DIVERSITY AND INCLUSION (3 credits)**

This course provides advanced-level knowledge of the structural understanding, assessment, analysis, and management of social diversity as well as successful inclusion strategies in the workplace. Concepts and theories dealing with structural basis of the creation of difference, consequences of difference, inclusion, affirmative action, and diversity consulting skills are fully examined in this course. This course will prepare students for successful leadership in diverse organizational environments. (Cross-listed with SOC 4550)

**Prerequisite(s):** Graduate standing or permission of instructor.

**SOC 8600 SEMINAR IN SOCIAL ORGANIZATION (3 credits)**

Graduate seminar on the sociological analysis of organizational fields and an in-depth study of one organizational system, such as decision-making, authority, communication, change, supervision, technology, bureaucracy, and reward system, in one organizational type within one organizational field. As seminar topics change, this course may be repeated twice in a student's program without implying duplication.

**Prerequisite(s):** Graduate standing and SOC 4620/8626; or permission of instructor.

**SOC 8626 APPLIED FORMAL ORGANIZATIONS (3 credits)**

An advanced-level applied organizational sociology course that uses organizational theory, concepts, research, and practice to examine the structural bases of organizational effectiveness, efficiency, survival, and actions of organizational members. The course is designed to prepare students for organizational leadership using advanced knowledge and skills of organizational sociology. (Cross-listed with SOC 4620).

**Prerequisite(s):** Graduate standing or permission of instructor.

**SOC 8706 WOMEN'S HEALTH AND ISSUES OF DIVERSITY (3 credits)**

This course provides a critical understanding of the inter-relationship between socio-cultural, economic, and political factors and women's physical and mental health. The aim is to provide an overview of the experience with the health care system. Emphasis will be on critically examining recent scholarship from a sociological, behavioral, health policy perspective. (Cross-listed with SOC 4700, PHHB 4700, PHHB 8706)

**Prerequisite(s):** Graduate standing.

**SOC 8746 SOCIAL JUSTICE AND SOCIAL CHANGE (3 credits)**

This course investigates the economic, political and social constraints on equality present in local, national and global arrangements. Students will gain a theoretical understanding of these conditions as well as those that lead to social change, spanning from day-to-day resistance techniques to large scale social movements. Students will participate in a service learning or applied project as they explore contemporary social justice issues and learn both theoretical and practical tools needed to become successful change makers, activists, or community organizers. Examples of social justice movements or campaigns form the basis for understanding injustice at a local, national, and global level. (Cross-listed with SOC 4740)

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor.

**SOC 8766 ENVIRONMENTAL SOCIOLOGY (3 credits)**

This course is an introduction to environmental sociology, a field of sociology that explores the interaction between the environment and society. Environmental sociologists consider how political, social, and economic factors have come to shape our patterns of interaction with the natural and built environment. Students will be expected to use the sociological perspective to understand the landscape of environmental problems, focusing on such issues as environment and health, disaster, environmental policy, climate change, environmental risk, human and animal interactions, sustainability, environmental justice and social movements. (Cross-listed with SOC 4760).

**SOC 8776 POLITICAL SOCIOLOGY (3 credits)**

This course explores political sociology, focusing on political processes and power. Political sociologists investigate relationships between political institutions and various other institutions, including but not limited to the economy, education, media, and religion, and the impacts that these relationships have on society and the individuals that comprise the society. This course will explore the concepts, theories, and knowledge that comprise this field such as power, legitimacy, the state, networks, stratification, and collective action. (Cross-listed with PSCI 4770, PSCI 8776, SOC 4770).

**Prerequisite(s):** Graduate standing

**SOC 8786 URBAN LATIN AMERICA (3 credits)**

This course examines the experience of Latin American urbanization, attending to its contributions to urban sociology, social movements, and policymaking. Topics include urban transitions (e.g. pre-Hispanic to colonial, post-colonial to industrial, and the neoliberal turn), socio-spatial configurations (e.g. plazas, squatter settlements), urban marginality debates, urban politics, and planning as well as governance innovations (e.g. bus rapid transit systems, participatory budgeting). Students will compare city case studies across the region and to urban life in the United States. (Cross-listed with SOC 4780, LLS 4780, LLS 8786, CACT 8186).

**Prerequisite(s):** Graduate standing or permission of instructor

**SOC 8806 CONTEMPORARY TOPICS IN SOCIOLOGY (3 credits)**

This course reviews research and writing in an area of current interest in the field of sociology. The specific topic(s) to be covered will be announced at the time the course is being offered. Since the topics will vary, students may elect to take this course more than once. (Cross-listed with SOC 4800)

**Prerequisite(s):** Sociology major; or permission of instructor.

**SOC 8836 SOCIOLOGY OF MENTAL HEALTH & ILLNESS (3 credits)**

This course will apply the sociological perspective to various topics regarding mental health and illness. The course will cover topics such as the social construction of mental illness, the social epidemiology of mental illness, labeling and stigma of those with a mental illness, and mental health policy/treatment. (Cross-listed with SOC 4830)

**Prerequisite(s):** SOC 1010, and junior standing; or permission of the instructor.

**SOC 8856 SOCIOLOGY OF RELIGION (3 credits)**

This course looks at religion as a social and cultural phenomenon, examining how religious beliefs, practices, institutions and movements shape and are shaped by their social context. Topics include: sociological theories and explanations of religion and spirituality; definitions of religion and the distinction between religion and other ideologies or worldviews; the measurement of religiosity and the scientific study of religion; trends in religiosity, spirituality, and the religious landscape historically and globally; sociological insights gained from the study of new religions, secularization, fundamentalism, and other issues related to contemporary religious experience. (Cross-listed with SOC 4850)

**Prerequisite(s):** SOC 1010 and junior standing; or permission of instructor

**SOC 8886 CONTEMPORARY TOPICS IN SOCIOLOGY (1 credit)**

This course reviews research and writing in an area of current interest in the field of sociology. The specific topic(s) to be covered will be announced at the time the course is being offered. Since the topics will vary, students may elect to take this course more than once. (Cross-listed with SOC 4880).

**Prerequisite(s):** Graduate standing or permission of instructor.

**SOC 8896 CONTEMPORARY TOPICS IN SOCIOLOGY (2 credits)**

This course reviews research and writing in an area of current interest in the field of sociology. The specific topic(s) to be covered will be announced at the time the course is being offered. Since the topics will vary, students may elect to take this course more than once. (Cross-listed with SOC 4890).

**Prerequisite(s):** Graduate standing or permission of instructor.

**SOC 8950 PRACTICUM IN APPLIED SOCIOLOGY (3 credits)**

A practical work experience under supervision that provides opportunity for applying principles from the student's academic area of concentration.

**Prerequisite(s):** Graduate sociology major. Not open to non-degree graduate students.

**SOC 8960 APPLIED PROJECT (1-6 credits)**

This capstone experience in the applied project option is an independent research project conducted in an applied setting under the supervision of a graduate faculty member in the department..

**Prerequisite(s):** Graduate sociology major; permission of the graduate program chair. Not open to non-degree graduate students.

**SOC 8970 CAPSTONE IN APPLIED SOCIOLOGY & ANTHROPOLOGY (3 credits)**

The Capstone is a project-based course which allows each student to demonstrate mastery of the knowledge and skills gained in applied sociology & anthropology. Students complete an applied community-facing project of their choice. Possible project types include but are not limited to: carrying out a research project with a community organization, writing an applied problem or white paper, creative or artistic activity such as an exhibit. Students will curate and complete a portfolio of educational experiences.

**Prerequisite(s):** Completion of SOC 8000, SOC 8030, SOC 8040, and SOC 8070. Not open to non-degree graduate students.

**SOC 8980 INDEPENDENT STUDY IN SOCIOLOGY (1-3 credits)**

Guided reading or independent research in special topics in Sociology under the supervision of a member of the Sociology faculty. This course is designed primarily for the student interested in topics not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated once for credit.

**Prerequisite(s):** Permission of the instructor. Not open to non-degree graduate students.

**SOC 8990 THESIS (1-6 credits)**

A research project, written under the supervision of a graduate advisor in the Department of Sociology & Anthropology, in which the student designs, conducts, and completes an original, independent, scholarly investigation at a graduate level. The research topic and the completed project must be approved by the student's departmental committee.

**Prerequisite(s):** Permission from Graduate Chair. Not open to non-degree graduate students.

**SOC 9110 THEORIES OF AGING (3 credits)**

An overview of social gerontology with an emphasis on the interplay between social, psychological and physical elements in later life. Restricted to graduate students only; required of gerontology students. (Cross-listed with GERO 9110)

**Prerequisite(s):** Graduate.

## Spanish (SPAN)

### Spanish Graduate Courses

**SPAN 8026 LANGUAGE ENHANCEMENT THROUGH VOCABULARY LEARNING (3 credits)**

This class aims to expand students' vocabulary in Spanish. This will be achieved through doing an overview of current research that investigates how vocabulary is learned; identifying effective vocabulary learning strategies; and exploring topics not commonly encountered in Spanish classes such as commerce and science. The course also includes points of contact with the Spanish-speaking community in Omaha, where students can participate in interactions that connect what has been learned in the classroom to language use in real life. (Cross-listed with SPAN 4020).

**Prerequisite(s):** Graduate standing

**SPAN 8036 ADVANCED SPANISH CONVERSATION (3 credits)**

This course targets the development of oral skills in Spanish through the incorporation of complex and sophisticated conversational structures and nuanced lexicon. In particular, the course focuses on presentational (i.e., expressing or exposing ideas or opinions), and interpersonal speaking (i.e., engaging in conversation where learners narrate and describe in the major time frames of past, present, and future in paragraph-length discourse with control of aspect). (Cross-listed with SPAN 4030)

**Prerequisite(s):** Graduate standing

**SPAN 8046 ADVANCED COMPOSITION AND STYLISTICS (3 credits)**

In this capstone course, required for the completion of the major, learners will explore and practice advanced grammatical structures, write compositions in a variety of genres, and familiarize themselves with advanced stylistics. (Cross-listed with SPAN 4040)

**Prerequisite(s):** Not open to non-degree graduate students.

**SPAN 8066 INTRODUCTION TO TRANSLATION AND INTERPRETATION (3 credits)**

This course offers an introduction to the translation and interpretation field. Course objectives include (a) understanding translation theory; (b) comprehending the role of communication in translation and interpretation; (c) targeting common grammatical and pragmatic errors; (d) increasing vocabulary knowledge in a variety of fields; and (e) gaining an increased awareness of the rigor and demands innate to the translation and interpretation fields. (Cross-listed with SPAN 4060).

**Prerequisite(s):** Admission to MALT program or permission of instructor

**SPAN 8076 HISPANIC BILINGUALISM (3 credits)**

This course explores bilingualism among Spanish speaking populations. Topics include societal bilingualism, the history of Spanish and language policy in Spain, Latin America, and the U.S., psychological aspects of bilingualism, monolingual vs. bilingual acquisition, first vs second language acquisition, and Spanish as a heritage language in the U.S. (Cross-listed with SPAN 4070).

**SPAN 8086 INTRODUCTION TO HISPANIC LINGUISTICS (3 credits)**

This course introduces students to the field of linguistics by exploring the following areas: phonetics and phonology (sound systems), morphology (word formation), historical linguistics (language development over time), and sociolinguistics and pragmatics (language in society and context), among others, as framed within the study of the Spanish language. (Cross-listed with SPAN 4080).

**Prerequisite(s):** SPAN 3030 and SPAN 3040 OR SPAN 3010 and SPAN 3020; Graduate standing

**SPAN 8126 HISPANIC SOCIOLINGUISTICS (3 credits)**

This course introduces sociolinguistics, the study of the relationship between language and society, with an emphasis on the Spanish language. Its focus will be on correlational linguistics (how social factors such as age, gender and socioeconomic status affect language) and language and society (the role language plays in human conduct and social organization). Course topics will include the concept of speech communities, sociolinguistic variables, phonological and syntactic variation as well as languages in contact, bilingualism, Spanish in the U.S., Spanish as a heritage language, and language attitudes and ideologies. (Cross-listed with SPAN 4120).

**Prerequisite(s):** SPAN 8086 or instructor permission

**SPAN 8136 SPANISH IN THE UNITED STATES (3 credits)**

This course looks at Spanish in the U.S. from a sociolinguistic perspective. Course topics include: Dialectal/regional differences, dialect contact, Spanish- English bilingualism and code-switching, "Spanglish", language maintenance, language ideologies surrounding Spanish in the U.S., and Spanish in public spheres (e.g., TV, movies, radio, music, stand-up comedy). (Cross-listed with SPAN 4130).

**Prerequisite(s):** SPAN 8086 or instructor permission

**SPAN 8146 INTRODUCTION TO LATIN AMERICAN FILM (3 credits)**

The course will be a thematic study of significant Latin American films emphasizing and further investigating their relationship to history, culture, society and political issues that have often given rise to social movements. Films from a variety of Spanish-speaking countries including Mexico, Argentina, Chile, Cuba, Bolivia, etc. will be studied in their socio-political context. At the 8146 level, students will be introduced to theoretical approaches such as early film theory, montage theory, feminist theory, race theory, and phenomenological film theory in order to deepen their understanding these themes. (Cross-listed with SPAN 4140, LLS 4140).

**SPAN 8156 LITERATURE/CULTURE: CENTRAL AMERICA AND THE CARIBBEAN 1898-2000 (3 credits)**

"Literature/ Culture: Central America and the Caribbean 1898- 2000" studies major historical and socio-cultural events in Latin American history in the 20th century, through their articulation in literary texts, film, and other cultural expressions from Central America and the Hispanic Caribbean. (Cross-listed with SPAN 4150, CACT 8416)

**Prerequisite(s):** SPAN 3030, SPAN 3040 and SPAN 3060 or permission of instructor



**SPAN 8176 INTRODUCTION TO LATIN AMERICAN LITERATURES (3 credits)**

The course is intended as an introduction to the study of canonical and non-canonical texts in Latin American literatures, from the 16th to 21st centuries. It seeks to acquaint students with the rich literary traditions of a large region, from South America to Central America and Mexico, as well as with the historical challenges posed by the salient heterogeneity of texts included in the Latin American corpus, from the standpoint of ethnicity, gender, social class, and literary genre. The course also focuses on continuing to develop Spanish language skills, specifically reading for comprehension and interpretation of metaphorical meaning, writing, and presentational speaking skills in Spanish. (Cross-listed with SPAN 4170, LLS 4170).

**Prerequisite(s):** SPAN 3030 and SPAN 3040, or SPAN 3010 and SPAN 3020; SPAN 3060

**SPAN 8196 REPRESENTATIONS OF THE SPANISH CIVIL WAR IN FILM AND POPULAR CULTURE (3 credits)**

This course explores the principal social, economic, political, and cultural implications of the Spanish Civil War, including its antecedents and consequences, in order to critically analyze the ways in which such historical matters have been represented over time through film, as well as through other media. The course also focuses on the continued development of Spanish language skills, such as formal and informal essay writing, presentational speaking skills in Spanish, advanced reading, and interpretation of film theory and criticism. (Cross-listed with SPAN 4190).

**Prerequisite(s):** Graduate standing

**SPAN 8226 THE STRUCTURE OF SPANISH (3 credits)**

This course introduces students to the structure of the Spanish language with a focus on its morphology and syntax as seen in the study of constituents of a sentence, lexical categories, content and function words, the pronominal system, the structure of simple and complex sentences, and the verbal system, among others. It reviews frequent syntactical errors in Spanish L2 and Heritage learners with the purpose of advancing their linguistic competence. (Cross-listed with SPAN 4220).

**Prerequisite(s):** SPAN 3030 and 3040 or SPAN 3010 and SPAN 3020; graduate standing

**SPAN 8336 LINGUISTIC JUSTICE AND LATINO HEALTH (3 credits)**

Language barriers compromise the quality of health care for millions of Spanish-speaking patients each year. Spanish-speaking patients, for example, have disease (e.g., musculoskeletal diseases, pesticide poisoning, cervical cancer, HIV/AIDS), mortality, and pain burdens at least twice as high as English-speaking patients. At the same time, they have been disproportionately affected by infectious diseases such as the tuberculosis outbreaks or the COVID-19 pandemic. These facts make language a crucial concern for the improvement of health among Latinos in the US. Students in this course examine the relationship between language, health care, and health among Spanish speakers in the US through the dual lens of sociolinguistics and public health. We consider the effect of linguistic and discursive practices on access to health information and examine some of the measures currently in place to improve the transmission of health information across language boundaries. (Cross-listed with SPAN 4330).

**Prerequisite(s):** Instructor permission

**SPAN 8440 SEMINAR:SPANISH COMPOSITION (3 credits)**

This course provides opportunities for students to refine their composition skills in Spanish through extensive writing workshops and peer editing. Computer applications to composition will be employed.

**Prerequisite(s):** Admission to the Graduate College.

**SPAN 8516 ILLNESS AND DISEASE IN SOUTHERN CONE LATIN AMERICAN LITERATURES AND CULTURES (3 credits)**

The course will examine representations of illness, disease, and affections in literary and cultural texts from the Latin American Southern Cone, focusing in Argentina, Uruguay, and Chile. It will explore notions of health and disease, as embedded in literary and cultural texts from the late 19th to the 21st centuries. We will examine the ways in which physical ailments, mental health symptoms, and other conditions or disorders have been conceptualized and portrayed, co-relating the individual "disruptions" caused by unwellness with a host of social and cultural factors. The course will also explore current treatments and therapies for the illnesses discussed in the texts, taking into account the integration of western and alternative medicine and practices. (Cross-listed with SPAN 4510, LLS 4510, LLS 8516).

**Prerequisite(s):** Graduate student standing

**SPAN 8536 DIALECTS OF THE SPANISH-SPEAKING WORLD (3 credits)**

This course explores the diversity and variation of the various dialects within the Spanish-speaking world. Special attention will be devoted to understanding phonetic and phonological processes that make up these dialects. Students will increase their familiarity with the diversity of the Spanish-speaking world and the complexity of the relationship between languages and dialects. Through the course, students will employ data-collection skills and methods commonly used in the field of linguistics. Course will be conducted in Spanish. (Cross-listed with SPAN 4530).

**Prerequisite(s):** SPAN 8086 or instructor permission; Graduate standing

**SPAN 8546 THE LANGUAGE OF REGGAETÓN: RACE, GENDER & CARIBBEAN FLOWS (3 credits)**

This course applies theories and methods from the field of linguistics to the analysis of reggaetón and its surrounding cultural practices. It explores ties between language, race, gender, sexuality, and *latinidad* as connected to this musical form. This course involves a deep-dive into this Afro-Latino genre, which has evolved from its origins in Puerto Rico and Panamá - including its roots in West Africa, Jamaica, and other locals within the Black diaspora - to a global musical phenomenon. Students will analyze "El Movimiento" through various levels of linguistic and social analysis: structural linguistics (phonetics, phonology, morphosyntax, lexicography, etc.), discourse analysis, sociocultural and linguistic anthropology, critical race theory, and feminist & queer theory. (Cross-listed with SPAN 4540).

**Prerequisite(s):** SPAN 8086 or instructor permission; Graduate standing

**SPAN 8766 FORENSIC LINGUISTICS (3 credits)**

This course will present an overview of forensic linguistics with an emphasis on the areas where linguistics (i.e., the study of language and its structures) and the law intersect. We will especially focus on these items: the nature of legal language, linguistic methods for determining the meaning of laws and statutes, types of linguistic analysis used for investigating deception and fraud, language used for profiling and identifying suspects in criminal cases, the relationship between language proficiency and defendants' ability to understand their rights, the legal and linguistic complexities of invoking one's rights, the language-related factors that lead to false confessions, the role of linguistic analysis in civil cases, and the challenges faced by court interpreters and other linguistic complexities of the courtroom. (Cross-listed with SPAN 4760).

**SPAN 8900 SPANISH INDEPENDENT STUDY (1-3 credits)**

Specifically planned projects and readings in a well-defined field within the areas of language, literature, culture, linguistics, or language acquisition, carried out under the supervision of a member of the foreign languages faculty holding graduate faculty status.

**Prerequisite(s):** (1) Acceptance into the Master of Arts in Language Teaching Program (MALT). Must have completed a minimum of six graduate credit hours. (2) Acceptance in Graduate Certificates. Must have completed a minimum of 6 graduate credit hours.



**SPAN 8906 INDEPENDENT STUDY (1-3 credits)**

Specially planned readings in a well-defined field of literature, carried out under the supervision of a member of the foreign language faculty. Designed primarily for the student who has need of work not currently available in the departmental offerings and who has demonstrated capability of working independently. May be repeated for credit once.

**Prerequisite(s):** Senior status, no incompletes outstanding, and departmental permission.

**SPAN 8956 PRO-SEMINAR: LITERATURE AND/OR FILM (3 credits)**

This course is dedicated to the study of a narrower field of the literature and/or cinema of the Spanish-speaking world. (Cross-listed with SPAN 4950)

**Prerequisite(s):** Graduate standing

**SPAN 8966 PRO-SEMINAR: CULTURE AND SOCIETY (3 credits)**

This course will address a narrow field of study of the civilization, history, film, contemporary culture, art, politics, and/or cultural studies of the Spanish-speaking world. (Cross-listed with SPAN 4960)

**Prerequisite(s):** SPAN 3030 and SPAN 3010 or SPAN 3570 and enrolled in minor in Spanish for Health Sciences or SPAN 3050 and enrolled in minor in Spanish for Health Sciences

**SPAN 8976 PRO-SEMINAR: LINGUISTICS AND LANGUAGE FOR THE PROFESSIONS (3 credits)**

This course addresses a narrow field of study in linguistics or the professional language of the Spanish-speaking world. (Cross-listed with SPAN 4970)

**Prerequisite(s):** Graduate standing.

## Special Education & Communication Disorders (SPED)

### Special Education & Communication Disorders Graduate Courses

**SPED 8000 SPECIAL PROJECTS (1-3 credits)**

This course is designed to allow graduate candidates to pursue independent study of a topic under the direction and guidance of a faculty member. Topics studied and the nature of the learning activities is mutually agreed upon by the candidate and instructor.

**Prerequisite(s):** Permission by the instructor. Not open to non-degree graduate students.

**SPED 8016 MENTAL HEALTH IN SCHOOLS: RISK FACTORS AND INTERVENTIONS (3 credits)**

This course explores the role that educators and school mental health professionals play in identifying the risk factors and warning signs of children and youth with mental health concerns. Students will understand the risk and protective factors at the individual, family, school, and community level as related to children and youth's mental health.

The course will provide an overview of externalizing and internalizing disorders as well as school-based and community-based treatments and interventions. (Cross-listed with COUN 4010, COUN 8016, SPED 4010).

**Prerequisite(s):** Not open to non-degree graduate students.

**SPED 8030 TEACHING STUDENTS WITH EXCEPTIONALITIES (3 credits)**

This course is designed to describe the characteristics and learning styles of students with various exceptional learning needs. This course also is intended to provide candidates with a knowledge base for the foundation of special education including the basic procedural flow of referral, identification and instruction and strategies for modifying the learning environment and individualizing instruction.

**Prerequisite(s):** Graduate standing.

**SPED 8046 WORKSHOP IN SPECIAL EDUCATION OR SPEECH-LANGUAGE PATHOLOGY (1-6 credits)**

The purpose of this course is to provide workshops or special seminars in the area of special education and communication disorders. This course will prepare graduate candidates as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their profession in a changing world. (Cross-listed with SPED 4040).

**Prerequisite(s):** Must have graduate status and permission.

**SPED 8080 SPECIAL EDUCATION FIELD EXPERIENCE SEMINAR (0 credits)**

This course is designed to support special education teacher candidates as they begin to put into practice those principles, skills, and procedures that will be presented in their advanced courses. This course will offer 5 seminars throughout the semester that will provide an overview of the field experience, an explanation of the Council for Exceptional Children (CEC) Professional Ethical Principles, knowledge related to direct explicit instruction, evidence-based intervention, the Individual Education Program, lesson planning, and progress monitoring.

**Prerequisite(s):** Admitted to the Accelerated Special Education Program. Not open to non-degree graduate students.

**SPED 8100 RESEARCH PROJECTS (1-3 credits)**

The purpose of this course is to allow candidates to participate in research activities other than those related to the thesis. Specific course content and type of research will be dependent on the nature of the intended research and must be approved by the supervising advisor and Department Chair prior to registration.

**Prerequisite(s):** Graduate standing and admitted into a special education or speech-language pathology program of study.

**SPED 8120 HIGH INCIDENCE DISABILITIES (3 credits)**

This introductory course is designed to examine characteristics of learners with high incidence disabilities and the impact of those characteristics on learning. The focus will be on the manifestation of disabilities including learning disabilities, behavior disorders, mild to moderate intellectual disabilities, speech and language disorders, attention-deficit hyperactivity disorders, and autism spectrum disorders. Response to intervention procedures, and how they align with special education processes will be taught.

**Prerequisite(s):** Graduate Standing.

**SPED 8236 LANGUAGE DEVELOPMENT AND DISORDERS FOR TEACHERS (3 credits)**

This course is designed to introduce the candidate to the nature and structure of language, current theories of language, normal first and second language development, language disorders, multicultural issues in language assessment, and contemporary classroom management of language deficits. The topics will be examined from an educational perspective to enhance the teachers knowledge of language and to facilitate classroom management of language deficits exhibited by exceptional children in grades pre-K through 12. (Cross-listed with SPED 4230).

**Prerequisite(s):** Admission to Graduate College

**SPED 8250 LITERACY ASSESSMENT AND INTERVENTIONS FOR STUDENTS WITH DISABILITIES (3 credits)**

This course is designed to provide graduate candidates skills and strategies for instructing students with high incidence disabilities, including dyslexia, that struggle to acquire literacy skills. Emphasis is placed on diagnosis and assessment of specific reading and writing difficulties to determine effective instructional strategies. Instructional strategies will address modifications directed at teaching oral language, reading, writing, and spelling skills.

**Prerequisite(s):** Admission to the Master of Science degree program in special education or permission of the instructor. Not open to non-degree graduate students.

**SPED 8260 DYSLEXIA: FOUNDATIONS & SCIENCE OF READING (3 credits)**

This course will address the critical components of language and literacy development and will introduce graduate students to the nature and needs of students with dyslexia. The course will focus on what dyslexia is, characteristics of children and youth with dyslexia and other learning disabilities, and the effects of dyslexia on learning to read and write. The course will also discuss important historical developments in the field, relevant laws, the science of reading, and policies as they relate to dyslexia.

**Prerequisite(s):** Admittance to Dyslexia certificate program/cohort OR Admittance to Special Education graduate program OR Master's in Literacy program. Not open to non-degree graduate students.

**SPED 8300 READINGS IN SPECIAL EDUCATION (1-3 credits)**

Reading and discussion of current methodological developments, research, and innovations in special education.

**Prerequisite(s):** Admission to the graduate program in special education. Not open to non-degree graduate students.

**SPED 8330 ASSESSMENT OF YOUNG CHILDREN IN INCLUSIVE SETTINGS (3 credits)**

This course is designed to help students apply effective and culturally responsive practices for assessment in early childhood inclusive education (for children ages birth to eight years). Selection and use of tools/techniques to collect data, analysis of results, and application of results for planning curriculum and interventions will be addressed within the context of key purposes of assessment in the field of early childhood inclusive education.

**Prerequisite(s):** Graduate status.

**SPED 8360 DYSLEXIA: LANGUAGE ESSENTIALS (3 credits)**

This course is designed to address the neurobiological elements and origins of dyslexia. This includes its effect on language and literacy development, and variations in the processing and development of language, and literacy elements for students with and without dyslexia. This course will also address linguistic structures of and historical influences on the English language.

**Prerequisite(s):** Admittance to Dyslexia Specialist Certificate program/cohort OR Admittance to special education graduate program OR Admittance to Master's of Literacy program. Not open to non-degree graduate students.

**SPED 8390 REFLECTIVE TEACHING PRACTICES IN EARLY CHILDHOOD INCLUSIVE EDUCATION (3 credits)**

This advanced methods course is designed to guide early childhood inclusive educators in the selection and implementation of evidence-based practices that will meet the learning needs of a diverse array of young children (birth to age 8). There will be a focus on creating effective classroom environments, supporting individual learning needs of all children in the classroom/program, tailoring instruction, embedding learning opportunities within integrated curriculum and daily routines to address children's goals, and partnering with families and colleagues. There is an emphasis on cultural responsiveness and educators' reflection upon their practices.

**Prerequisite(s):** Graduate status

**SPED 8580 INSTRUCTIONAL METHODS AND INTERVENTIONS IN SPECIAL EDUCATION (3 credits)**

This course is designed to describe the various instructional methods that have been used successfully in supporting students with disabilities in a variety of settings. This course is intended to provide students with knowledge and evidence-based teaching strategies essential for modifying the learning environment and individualizing instruction for students with disabilities. In addition, teaching methods will focus on academic curriculum lesson planning, development of IEPs, selection of instructional methods and materials, explicit instruction, and universal design for learning (UDL).

**Prerequisite(s):** Admission into a Special Education Master's program and SPED 8120. Not open to non-degree graduate students.

**SPED 8656 TRANSITION PLANNING (3 credits)**

Curriculum oriented for teachers and related professionals to work with the career development and transition of individuals with disabilities within a multicultural and global society. Includes information for elementary through adulthood with emphasis on transition from high school to community living. (Cross-listed with SPED 4650).

**Prerequisite(s):** SPED 1500. Not open to non-degree graduate students.

**SPED 8660 DYSLEXIA: ASSESSMENT FOR INSTRUCTIONAL PLANNING (3 credits)**

This course is designed to address the principles and practices of effective assessment for students with dyslexia. This course will include the various purposes of assessment, the psychometric properties of high-quality assessment tools used to identify and support students with dyslexia, and important issues related to test administration. Graduate students will identify effective assessment tools appropriate for use with students with dyslexia, develop informal assessment procedures and plans, and interpret assessment data to design appropriate interventions for students with dyslexia.

**Prerequisite(s):** Admittance to Dyslexia certificate program/cohort OR Admittance to special education graduate program OR admittance to the Master's in Literacy program AND SPED 8260 & SPED 8360. Not open to non-degree graduate students.

**SPED 8670 MATH INTERVENTIONS (3 credits)**

The purpose of this course is to prepare graduate candidates to teach, co-teach or consult in the area of mathematics interventions. Graduate candidates will examine and apply the existing research in mathematics instruction for students with exceptional needs.

**Prerequisite(s):** Admission to the graduate program in Special Education. Not open to non-degree graduate students.

**SPED 8690 DYSLEXIA: STRUCTURED LITERACY INSTRUCTION (3 credits)**

This course is designed to address the principles and components of evidence-based literacy interventions for students with dyslexia. This will include the stages of literacy development, the characteristics and challenges of PK-12 students as they develop literacy skills, effective interventions in specific components of literacy, principles of structured literacy, direct instruction, and multisensory instruction, and the issues involved in designing comprehensive literacy interventions and programs for students with dyslexia.

**Prerequisite(s):** Admittance to Dyslexia certificate program/cohort OR Admittance to Special Education graduate program Or Admittance to Master's in Literacy AND SPED 8260 and SPED 8360. Not open to non-degree graduate students.

**SPED 8700 SEMINAR IN SPECIAL EDUCATION (3 credits)**

The seminar in Special Education is designed to be one of the very last courses taken by a master's degree candidate. Content covers a wide range of topics such as: 1) continuum of care; 2) educational and community service systems; 3) legislation; 4) family concerns; and 5) comparative special education. Each candidate develops a teaching module on one of the course topics, which is discussed and evaluated in class.

**Prerequisite(s):** Graduate standing.

**SPED 8720 GRADUATE PRACTICUM IN SPECIAL EDUCATION (3 credits)**

This graduate special education practicum course provides candidates with either inservice experience or placement in a school program for students with exceptionalities at an academic level commensurate with the candidate's desired level of the special education generalist endorsement (K-6 or 7-12).

**Prerequisite(s):** Admission to the graduate program in the desired endorsement, completion of 30 hours of required course work, and permission. Not open to non-degree graduate students.

**SPED 8730 ADVANCED GRADUATE PRACTICUM IN SPECIAL EDUCATION (3 credits)**

This course provides candidates with a second semester of classroom experience teaching students with disabilities. This experience is for graduate candidates who are extending their endorsement. For students seeking an additional endorsement as a Special Education Generalist, this course would prepare them for endorsement in grades K-6 or 7-12. For students seeking an additional endorsement in Behavior Intervention Specialist, this course would prepare them for endorsement in grades PK-6 or 7-12.

**Prerequisite(s):** Admission to the graduate program in the desired endorsement and completion of SPED 8720, SPED 8830 or SPED 8840. Not open to non-degree graduate students.

**SPED 8760 DYSLEXIA: PRACTICUM (3 credits)**

This course is designed to integrate the knowledge and theoretical study of dyslexia, including assessment and intervention information, with the application of these components in authentic settings. In this course, students will apply the knowledge of dyslexia, the principles of effective assessment and intervention and implement evidence-based practices for students with dyslexia through a supervised practicum experience.

**Prerequisite(s):** Admittance to Dyslexia certificate program/cohort OR Admittance to Special Education graduate program. Not open to non-degree graduate students.

**SPED 8790 DYSLEXIA: ADVANCED PRACTICUM (3 credits)**

This course is designed as a continued practicum experience to integrate the knowledge and theoretical study of dyslexia over a longer-period of time (e.g., 20+ weeks), including assessment and intervention information, with the application of these components in authentic settings. In this course, students will apply the knowledge of dyslexia, the principles of effective assessment and intervention and implement evidence-based practices for students with dyslexia through an extended supervised practicum experience. This practicum experience is a required experience for students pursuing national certification through the Center for Effective Reading Instruction (CERI).

**Prerequisite(s):** Admittance to Dyslexia certificate program/cohort AND successful completion of SPED 8760. Not open to non-degree graduate students.

**SPED 8806 SOCIAL AND EMOTIONAL DEVELOPMENT OF CHILDREN AND YOUTH (3 credits)**

This course is designed to prepare teacher candidates and graduate candidates with the understanding of the psychological, biological and environmental factors that affect the social-emotional development of children and adolescents. Emphasis is placed on the interaction of these factors for children with exceptional learning needs and the implications for the learning environment. (Cross-listed with SPED 4800).

**SPED 8810 RESEARCH METHODS IN SPECIAL EDUCATION (3 credits)**

This course is designed to provide an examination of the theoretical approaches to conducting educational research, research design and analysis, and interpretation and evaluation of existing research in special education and related fields.

**Prerequisite(s):** SPED 8120 or permission from the instructor. Not open to non-degree graduate students.

**SPED 8816 BEHAVIOR INTERVENTIONS AND SUPPORTS (3 credits)**

This course introduces a variety of practical interventions that teachers may use to support the positive classroom behavior of all students within a tiered model. Universal, targeted, and individualized strategies are presented. (Cross-listed with SPED 4810).

**SPED 8820 CHARACTERISTICS OF EMOTIONAL AND BEHAVIORAL DISORDERS (3 credits)**

This course is designed to assess and examine the causes and characteristics of behavioral disorders, which constitute internalizing, externalizing, and pervasive developmental disorders. Extensive use of the case study method will be used.

**Prerequisite(s):** Admission to the Master of Science degree program in special education.

**SPED 8830 GRADUATE PRACTICUM IN BEHAVIOR INTERVENTION SPECIALIST (3 credits)**

This course provides candidates with either an in-service experience or placement in a school program in which the candidate works with students with emotional and behavioral disorders at an academic level commensurate with the candidate's desired level of endorsement (PK- 9, or 7-12).

**Prerequisite(s):** Admission to the graduate program in special education with an emphasis in behavior intervention specialist, completion of 30 hours of the required coursework, and permission by the department. Not open to non-degree graduate students.

**SPED 8840 ADVANCED PRACTICUM IN BEHAVIOR INTERVENTION SPECIALIST (3 credits)**

This course provides candidates with additional experiences in working with students with disabilities who present challenging behaviors, including emotional disturbance and autism. This course is designed for graduate students who are already endorsed in special education.

**Prerequisite(s):** Behavior Intervention Specialist program and permission. Not open to non-degree graduate students.

**SPED 8850 INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH EMOTIONAL AND BEHAVIORAL DISORDERS (3 credits)**

The focus of the course will be on instruction and interventions that are effective for students with behavior disorders such as explicit instruction, social skills support, supporting executive functions, and cognitive strategy instruction.

**Prerequisite(s):** Graduate standing and successful completion of SPED 8820, not open to non-degree students.

**SPED 8860 BEHAVIOR MODIFICATION (3 credits)**

This course is designed to equip candidates with the skills necessary to assess, modify, and evaluate behavior in accordance with best practice and research-based approaches. In addition, this course will train candidates on how to conduct a functional behavioral assessment and create behavioral intervention plans in accordance with IDEA.

**Prerequisite(s):** Admission to the graduate program in special education. Not open to non-degree graduate students.

**SPED 8870 AUTISM SPECTRUM DISORDERS: BEHAVIORAL SUPPORT AND INTERVENTIONS (3 credits)**

This course is designed to provide information on the behavioral characteristics, instructional needs and necessary curriculum development specifically for children and youth with autism spectrum disorder (ASD).

**Prerequisite(s):** Admission to the graduate program in special education. Not open to non-degree graduate students.

**SPED 8900 SPECIAL EDUCATION LAW (3 credits)**

The purpose of this course is to research and explore legal and policy issues affecting special education within our schools. Case law will be examined to ensure effective special education programs for children and youth with disabilities. (Cross-listed with EDL 8900).

**Prerequisite(s):** Graduate Standing. Not open to non-degree graduate students.

**SPED 8910 ASSESSMENT IN SPECIAL EDUCATION (3 credits)**

This course provides an overview of measurement and evaluation concepts, strategies, and techniques that are appropriate for students with special needs. Graduate candidates will implement and analyze formal and informal assessments using a systematic and comprehensive approach. Emphasis is placed on those assessment strategies that yield objective data regarding individual learning characteristics that provide a basis for educational decision making.

**Prerequisite(s):** Graduate standing and SPED 8120

**SPED 8920 SPECIAL EDUCATION LEADERSHIP (3 credits)**

The purpose of this course is to examine special education administration and leadership issues. This course will focus on policies and procedures necessary to effectively provide leadership to programs for children and youth with disabilities.

**Prerequisite(s):** Graduate standing. Not open to non-degree graduate students.

**SPED 8930 INCLUSION/COLLABORATION PRACTICUM (3 credits)**

This course provides candidates with a practicum experience in the inclusion/collaboration specialty area with emphasis across PK-12 settings.

**Prerequisite(s):** Admission to the graduate program in inclusion/collaboration and permission by the department. Not open to non-degree graduate students.

**SPED 8960 ADVANCED ASSESSMENT AND INTERVENTION (3 credits)**

This course provides graduate candidates with in-depth practicum experiences in the administration and interpretation of standardized academic achievement measures, criterion-referenced tests, informal assessments, and progress monitoring with children experiencing learning difficulties. Emphasis is placed on utilizing assessment information in order to develop and monitor intervention plans.

**Prerequisite(s):** Admission to the Master of Science degree program in special education; SPED 8910, SPED 8646, SPED 8156, and SPED 8970; or have permission from the instructor. Not open to non-degree graduate students.

**SPED 8970 INSTRUCTIONAL STRATEGIES (3 credits)**

This course is designed to prepare graduate candidates with in-depth information regarding effective teaching strategies for students with high-incidence disabilities. Primary emphasis is placed on providing students with theoretical and practical foundations in the design and implementation of cognitive strategy instruction and the use of evidence-based practices and the selection and monitoring of individualized interventions.

**Prerequisite(s):** Admission to the Master of Science degree in special education, SPED 8120, SPED 8646 or equivalent or permission of the instructor. Not open to non-degree graduate students.

**SPED 8980 PROFESSIONAL COLLABORATION (3 credits)**

This course is designed to prepare candidates to work in collaboration with other professionals and parents to create a learning environment that enhances the potential for academic success and improvement of instructional practices. The focus will be on collaborative problem solving. (Cross-listed with TED 8850).

**Prerequisite(s):** Admission to Graduate College.

**SPED 8990 THESIS (1-6 credits)**

This course is intended for all graduate candidates in the Department of Special Education and Communication Disorders who are seeking a Master of Arts degree. The candidate is expected to generate and complete an independent research project under the guidance of a thesis advisor.

**Prerequisite(s):** Permission of Thesis Committee Chair and TED 8010. Not open to non-degree graduate students.

**SPED 9140 ASSESSMENT AND TREATMENT OF AUTISM SPECTRUM DISORDERS (3 credits)**

The purpose of this course is to familiarize students with the diagnosis, assessment, and treatment of autism spectrum disorders (ASD). (Cross-listed with PSYC 9140).

**Prerequisite(s):** Not open to non-degree graduate students.

# Statistics (STAT)

## Statistics Graduate Courses

**STAT 8005 STATISTICAL METHODS I (3 credits)**

An introduction to descriptive statistics, measures of central value and dispersion, probability and distributions, population and sample, simple linear regression, statistical inference: point estimation, confidence intervals, hypotheses testing, two population comparison, goodness-of-fit tests, analysis of variance. Statistical software like Minitab or Excel will be utilized in the course. (Cross-listed with STAT 3000).

**Prerequisite(s):** MATH 1220 or MATH 1300 or MATH 1320 or equivalent with a grade of C- or better, or permission of instructor

**STAT 8416 INTRODUCTION TO DATA SCIENCE (3 credits)**

Topics covered in this course include Data Technology, Methods of gathering and cleaning structured or unstructured data, Exploratory data analysis & Dynamic and interactive data visualization, Modeling data for prediction, forecasting or classification. (Cross-listed with STAT 4410).

**Prerequisite(s):** MATH 4740 with a C- or better or concurrent; or STAT 3800 with a C- or better or concurrent; or permission of instructor. Students should be comfortable with computer programming & have knowledge of data structures & preliminary statistical methods.

**STAT 8426 EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION (3 credits)**

Topics covered in this course include Exploratory Data Visualization for categorical/qualitative single/multivariate data, Grammar of Graphics, Organizing Data for Visualization, Methods of Displaying Data that include dynamic and interactive visualization, Visual Diagnostics of Statistical Models and Visual Statistical Inference. Students planning to enroll in this course should be comfortable with computer programming and have knowledge of data structures and preliminary statistical methods. (Cross-listed with STAT 4420)

**Prerequisite(s):** STAT 3800 or STAT 8805 or MATH 4740 or MATH 8746 with a grade of C- or better or another introductory probability/statistics course with a grade of C- or better, and MATH 3200 or CSCI 1620 with a grade of C- or better, or permission of instructor.

**STAT 8436 LINEAR MODELS (3 credits)**

This course introduces students to linear statistical models. Topics will include: simple linear regression models, multiple linear regression models, ANOVA models including one way ANOVA, randomized block design, other designs, logistic regression models, Poisson regression models, bootstrapping/resampling models, and survival analysis. The course may also include mixed models and/or survival models. Some necessary linear algebra and mathematical statistics ideas will be reviewed at the beginning of the course. Computer software will be extensively used. (Cross-listed with STAT 4430)

**Prerequisite(s):** MATH 4750 or MATH 8756 w/ a grade of C- or better or STAT 3800 or STAT 8805 w/ a C- or better or instructor permission based on students' having taken a basic statistics course w/ a grade of C- or better & having a basic knowledge of calculus.

**STAT 8446 TIME SERIES ANALYSIS (3 credits)**

The objective of this course is to learn and apply statistical methods for the analysis of data that have been observed over time. Topics covered include: Models for Stationary and Non-Stationary Time Series, Model Specification, Parameter Estimation, Model Diagnostics, Forecasting, Seasonal Models, Time Series Regression, and Spectral Analysis. Statistical software will be used. (Cross-listed with STAT 4440)

**Prerequisite(s):** MATH 4750 or MATH 8756 w/ a grade of C- or better or STAT 3800 or STAT 8805 w/ a C- or better or another introductory probability/statistics course w/ a C- or better, or permission of instructor.



**STAT 8456 INTRODUCTION TO MACHINE LEARNING AND DATA MINING (3 credits)**

This is an introduction to machine learning and data mining which covers the following topics with an emphasis on mathematical and statistical analysis in supervised learning. Topics include machine learning workflow, evaluation metrics, validation approaches, classification models including logistic regression, decision tree, boosting, random forest, support vector machines, neural networks, Bayesian methods, etc. If time allows, text mining and unsupervised learning topics will also be introduced in the course. Statistical software will be used. (Cross-listed with MATH 4450, MATH 8456, STAT 4450)

**Prerequisite(s):** MATH 4740/8746 with a C- or better or STAT 3800/8805 with a C- or better or permission of instructor.

**STAT 8670 TOPICS IN PROBABILITY AND STATISTICS (3 credits)**

Advanced treatment of a specific topic in the area of probability and/or statistics not available in the regular curriculum. Topics, developed by individual faculty members, will reflect their special interests and expertise. The course may be repeated for credit as topics differ. (Cross-listed with MATH 8670).

**Prerequisite(s):** MATH 4750/MATH 8756 or STAT 3800/STAT 8805 or permission from instructor

**STAT 8700 BAYESIAN STATISTICS (3 credits)**

The objective of this course is to introduce the Bayesian approach to statistical inference. Topics covered include: Review of probability, Bayes theorem, and Likelihood; The Bayesian methodology, prior and posterior distributions; Choices of prior distribution, conjugate and Jeffreys priors; Credible intervals and inference; Bayesian computation - Markov Chain Monte Carlo and the Gibbs Sampler; Hierarchical models; Regression models.

**Prerequisite(s):** MATH 8756 or equivalent or permission of instructor.

**STAT 8710 DESIGN AND ANALYSIS OF EXPERIMENTS (3 credits)**

Introduction to design and analysis of controlled experiments. The goal of experimental design is to be able to construct an experiment to identify which factors most impact the response and do so in an efficient manner. Statistical software will be used. Types of designs studied include: Randomized Block Designs, Latin Square Designs, Incomplete Block Designs, Factorial Designs, and Nested Designs.

**Prerequisite(s):** MATH 4750/8756 or permission of instructor.

**STAT 8720 RELIABILITY THEORY (3 credits)**

This course covers the probabilistic and statistical aspects of reliability theory. Reliability theory is concerned with the probability that a component or system is successfully working over a given time period or at a specific time instance. (Cross-listed with MATH 8720).

**Prerequisite(s):** Either MATH 4740 or STAT 3800 or permission of the instructor. Some basics of mathematical analysis are helpful when discussing limit theorems, but not required.

**STAT 8730 ADVANCED STATISTICAL MACHINE LEARNING (3 credits)**

This course will introduce machine learning models from a statistical perspective. Comparing to the introductory machine learning course, this course will focus more on (1) probability and statistical theory for machine learning methods; (2) relationship between machine learning and high-dimensional multivariate statistical analysis; (3) evolution and frontier of machine learning methods; (4) algorithm development for research purpose. Programming software will be used.

**Prerequisite(s):** MATH 4750/8756 with a C or better or permission of instructor.

**STAT 8805 APPLIED ENGINEERING PROBABILITY AND STATISTICS (3 credits)**

An introduction to the application of probability and statistics to engineering problems. Topics include: probability and probability distributions, mathematical expectation, distribution of random variables, binomial, Poisson, hypergeometric, gamma, normal, and t-distributions, Central Limit Theorem, confidence intervals, hypothesis testing. If time allows, some linear regression and contingency tables. Credit for both MATH 4740 and STAT 3800 will not be given. (Cross-listed with STAT 3800)

**Prerequisite(s):** MATH 1970

**STAT 8950 DATA SCIENCE CAPSTONE PROJECT (3 credits)**

The Data Science Capstone Project completes the Data Science Master (MS) student's graduate experience. Students will work on individual tasks and team-based activities on a real-world project. This course intends to provide experience in the industrial practice of real-world data science pipeline-building projects. Furthermore, this course allows MS students to integrate and improve the technical skills they learned throughout their graduate education and will enable them to enhance professional skills such as communication and teamwork. (Cross-listed with DSCI 8950).

**Prerequisite(s):** Complete all core courses of the MS Data Science program (STAT 8416, STAT 8426, ECON 8320, ECON 8310/BSAD 8080, ISQA 8206, ITIN 8300/ISQA 8060) and Permission from the Instructor. Not open to non-degree graduate students.

**STAT 8960 MASTER'S PROJECT (1-6 credits)**

An applied project, designed and executed under the supervision of both a faculty and industry advisor. In the project the student will apply their mathematical and/or statistical skills to an applied problem. The student will present their results via a written report and oral presentation. (Cross-listed with MATH 8960).

**Prerequisite(s):** Permission of faculty advisor and graduate program chair. Not open to non-degree graduate students.

## Supply Chain Management (SCMT)

### Supply Chain Management Graduate Courses

**SCMT 8066 HEALTHCARE ANALYTICS FOR BUSINESS (3 credits)**

This course will focus on the mixing of analytics and technology to develop key performance indicators that integrate and evaluate clinical, administrative, and financial performance. Concepts in this course explore the intersection of information management, performance metrics, data visualization, and result communication spanning across the healthcare ecosystem. Topics covering health outcome analysis, financial performance, developing analytic strategies, data quality and governance, and the four stages of actionable intelligence are all used to educate the advantages of leveraging analytics. (Cross-listed with BSAD 8066, HLSC 8066, MGMT 8066, MGMT 4060, SCMT 4060).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor. Not open to non-degree graduate students.

**SCMT 8076 INTERNATIONAL LOGISTICS MANAGEMENT (3 credits)**

This course will focus on the logistics of international trade and how managers facilitate the flow of goods and services in import and export environments. Students will learn about infrastructure and business practices needed to manage international transportation, communications, services, and regulatory requirements. Students will develop an understanding of international terms of trade, transaction risk management, and location decisions for placement of warehouses and distribution centers. (Cross-listed with BSAD 8076, HLSC 8076, SCMT 4070).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.



**SCMT 8176 EMERGING TRENDS IN SUPPLY CHAIN MANAGEMENT (3 credits)**

This course will focus on trends influencing supply chain management and design in the 21st century. Key concepts in this course will include contemporary opportunities and challenges in creating customer value via the supply chain with a focus on globalization and risk management. Specific topics will include the influence of the empowered customer on supply chain design, global supply chain trends, and the need for integration of technology and talent to create a competitive advantage. (Cross-listed with BSAD 8176, HLSC 8176, SCMT 4170).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**SCMT 8336 PROJECT MANAGEMENT (3 credits)**

This course focuses on the systemic exploration of planning and executing complex projects to create organizational success. Using a comprehensive understanding of principles, methodologies, and tools within project management, students will learn how to initiate critical processes, plan objectives and constraints, execute management and leadership, monitor budgets and development, and close outcomes of complex projects. Skills obtained from this course enhance individuals' ability to recognize, identify, and prioritize organizations' culture and structure to lead projects across various industries efficiently. (Cross-listed with BSAD 8336, HLSC 8336, MGMT 4330, MGMT 8336, SCMT 4330)

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**SCMT 8356 GLOBAL SOURCING AND INNOVATION (3 credits)**

This course focuses on global suppliers as partners in the development and commercialization of new products. Students will learn about open innovation and the integration of internal and external business systems in new product innovation. Students will develop an understanding of regulatory policies related to information sharing and the intellectual property rights of buyers and suppliers. (Cross-listed with BSAD 8356, HLSC 8356, SCMT 4350).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**SCMT 8376 SUPPLY CHAIN ANALYTICS (3 credits)**

This course focuses on integrating supply chain management through the use of key performance indicators. Key concepts in this course include data visualization, supplier performance metrics, service-dominant logic, and the supply chain for data. Specific topics include the influence of the empowered customer on supply chain metrics, using metrics to develop a competitive advantage, data-driven decision making, and the four stages of actionable intelligence. (Cross-listed with BSAD 8376, HLSC 8376, SCMT 4370).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**SCMT 8386 INDUSTRIAL PURCHASING AND LOGISTICS MANAGEMENT (3 credits)**

This course will focus on the strategic procurement of products and services in order to gain a competitive advantage through integrated supply management. Students will learn about strategic supply management, contract negotiation, and supplier quality management. Students will develop an understanding of supplier performance management through the use of supply chain information systems. (Cross-listed with BSAD 8386, HLSC 8386, MKT 4380, SCMT 4380).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**SCMT 8456 MANAGERIAL NEGOTIATION STRATEGIES (3 credits)**

This course introduces students to the theory and practice of negotiation across various organizational settings. The ability to successfully negotiate an outcome is an important aspect of management and leadership. Negotiation can be used to determine multiparty relationships, manage conflict resolution, and improve organizational outcomes. Using a combination of conceptual frameworks, roleplaying exercises, and debriefing opportunities, the design of this course is structured to help students understand the power and influence negotiation has over the successful outcomes of managers, leaders, and organizations. (Cross-listed with BSAD 8456, HLSC 8456, MGMT 4450, MGMT 8456, SCMT 4450).

**Prerequisite(s):** Admission to Graduate College, MBA Program or by permission of the instructor.

**SCMT 8680 SUPPLY CHAIN INTEGRATION (3 credits)**

This course will focus on the integration of internal and external systems designed to maximize the efficiency and effectiveness of supply chain networks developed by industrial organizations, government agencies, and not-for-profit organizations. Key concepts will include supply chain design, trends in technology, and cross-functional collaboration, coordination, and communication along the value chain. Specific topics will include the influence of empowered customers on supply chain integration, global supply chain trends, closed-loop supply chains, and the challenges and benefits of integrating technology and talent in the workplace. Students enrolled in the Master's in Healthcare Logistics and Supply Chain Management program should consult with their advisor about this course satisfying that degree's capstone requirement. (Cross-listed with BSAD 8680, HLSC 8680).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

**SCMT 8710 SUPPLY CHAIN MANAGEMENT (3 credits)**

This course will focus on supply chain management as a key functional area of organizational success. Students will learn about current techniques used by supply chain practitioners to make strategic and tactical decisions that support the overall strategy and day-to-day operations of an organization. Students will develop an understanding of how supply chain decisions and appropriate metrics of performance can be utilized to improve the operational efficiency and effectiveness of an organization. (Cross-listed with BSAD 8710, HLSC 8710).

**Prerequisite(s):** Admission to Graduate College, MBA Program, Healthcare Logistics and Supply Chain Management program, or by permission of the instructor. Not open to non-degree graduate students.

## Teacher Education (TED)

### Teacher Education Graduate Courses

**TED 8000 SPECIAL STUDIES (3 credits)**

A series of intensive studies especially for in-service teachers scheduled as regular seminars or classes, according to purpose. Possible topics may include Reading Intervention, Mental Health, Social Emotional Learning, Math in the Community, etc.

**Prerequisite(s):** Graduate status

**TED 8006 SPECIAL METHODS IN THE CONTENT AREA (3 credits)**

This course is designed to develop knowledge, skills, and dispositions requisite of teachers. Course content is determined by the discipline area. For some content areas a field experience will be required. This is an in-school, guided practicum completed in conjunction with TED 4000 math, science, language arts, world languages, Business, Information Technology, ESL and social studies sections. Candidates must demonstrate competencies related to performance in 7-12 classrooms. This is the final practicum experience prior to the clinical practice semester. (Cross-listed with TED 4000).

**TED 8010 INTRODUCTION TO RESEARCH (3 credits)**

This course will introduce advanced degree candidates to: A) an understanding of the scientific method as applied to behavioral research, both qualitative and quantitative; B) assessment, evaluation, descriptive, causal-comparative, experimental, and qualitative data gathering procedures and analytical strategies; C) sampling theory, techniques, distribution and hypothesis testing; D) specific designs, methods, and tools of qualitative and quantitative research; E) search and retrieval of published research, both American and international (global); F) basic statistics, both descriptive and inferential; G) the ethical requirements of conducting research with human participants as outlined by Institutional Review Boards; H) a project involving critical evaluation of both qualitative and quantitative research studies.

**Prerequisite(s):** Graduate standing.

**TED 8020 CONTENT, LANGUAGE, & BILITERACY: INTERDISCIPLINARY BILITERACY & TRANSLANGUAGING PEDAGOGY (3 credits)**

This course explores biliteracy strategies (listening, oral, reading, writing, and translanguaging) that facilitate students' content area literacy development (ex. Science, Social Studies, Physical Education, Art, Music, Mathematics, etc.) in bilingual education programs. Graduate students will focus on developing their students' biliteracy skills along with interdisciplinary literacy. The course focuses on interdisciplinary biliteracy strategies that promote student participation and contribute to their learning, integrating prior knowledge and cultural experiences with literacy in academic content areas. Graduate students will also discuss how translanguaging promotes students' emotional well-being and critical consciousness, supporting equitable participation by families, empowering parents, and advancing social justice education.

**Prerequisite(s):** TED 8480 and TED 8490. Advanced Spanish proficiency required for this course.

**TED 8030 SEMINAR IN EDUCATION (1-3 credits)**

This is a variable content course focusing on topics of current relevance to PK-12 teachers.

**Prerequisite(s):** Graduate standing.

**TED 8040 SEMINAR ON STUDENT TEACHING/NEW TEACHER INDUCTION (3 credits)**

The seminar is designed for experienced teachers who are, or may be, serving as cooperating teachers for student teachers or as mentor teachers for beginning teachers. Participants will study the purposes, techniques, and trends involved in serving as a cooperating teacher or as a mentor.

**Prerequisite(s):** Successful teaching experience is required for this course.

**TED 8050 DATA-DRIVEN DECISION MAKING FOR EDUCATORS (3 credits)**

This course provides graduate students with hands-on experiences that model data-driven decision making for educational success in today's classroom. Students will learn how to create valid and reliable assessments; interpret standardized test data; build data models that identify student, classroom, program, and school needs; and in general, to systematically enhance educational decision making from a base of carefully collected information. Graduate students will also explore data collection and analysis strategies associated with technologies such as cloud computing, tablet computers, and smart phones. In addition, they will experience data-driven decision-making models that can be integrated into student lessons to not only teach more effectively with data-driven decisions, but also to help teach students about data-driven decision-making. The course will use real data sets and cases, in interesting, hands on and technology-rich activities, to help educators learn how to find the "educational story" represented by a set of carefully collected data points. (Cross-listed with STEM 8050).

**Prerequisite(s):** Graduate standing.

**TED 8055 FOUNDATIONS OF ENGLISH AS A SECOND LANGUAGE (ESL) (3 credits)**

This course is designed to enhance candidates' understanding of the historical, political, and theoretical perspectives of K-12 English as a Second Language (ESL) education for English Learners (ELs) in the U.S. context. As dedicated practitioners, reflective scholars, and responsible citizens, students will have knowledge of factors that contribute to an effective multicultural and multilingual learning environment. TED 3050 includes an in school, guided practicum. Candidates must demonstrate competencies related to teaching English Learners (ELs) in K-12 classrooms. This is the first of two practicum experiences to complete the field experience requirements for Nebraska Department of Education.

**Prerequisite(s):** TED 2300 (EDUC 2010) OR TED 2380; and TED 2050.

**TED 8060 CURRENT ISSUES AND TRENDS IN EDUCATION (3 credits)**

The course is an advanced study of current issues and trends which have substantial impact on PK-12 education. The graduate candidates who take this class will read, analyze, and evaluate relevant research in order to become conversant in those issues.

**Prerequisite(s):** Graduate status is required.

**TED 8070 TEACHING MULTIPLE INTELLIGENCE (3 credits)**

This course focuses on the utilization of the multiple intelligences (MI) theory by teachers to enhance children's understanding of various disciplines. Graduate candidates will have the opportunity to explore, evaluate, and develop various methodologies that foster understanding.

**Prerequisite(s):** Graduate status.

**TED 8080 STORYTELLING AND EDUCATION (3 credits)**

This course is designed to consider the importance of storytelling, to provide teacher candidates with the background materials for storytelling, to study resource material for storytelling from a variety of cultures, and to develop techniques for storytelling. Actual experience in storytelling and opportunities for evaluating storytelling experiences will be provided.

**Prerequisite(s):** Graduate status

**TED 8090 INTRODUCTION TO MIXED METHODS RESEARCH: APPLIED TECHNIQUES IN EDUCATIONAL RESEARCH (3 credits)**

This course offers a comprehensive introduction to Mixed Methods Research (MMR), which is the collection and integration of qualitative and quantitative research data. Students will gain insights into data sources, analytical techniques, and its role in achieving equitable research outcomes. This includes writing and evaluating MMR studies and considering advanced topics including the future of MMR and innovations like advanced software and joint displays. Students will complete a research proposal or a mini-MMR project (using existing data), and present and provide feedback to their peers. The course is intended for graduate researchers aiming to utilize both qualitative and quantitative approaches.

**Prerequisite(s):** TED 8010 or TED 8050, or permission from department chair.

**TED 8100 RESEARCH PROJECT (1-3 credits)**

This course is designed for individual or group study and analysis of specific problems in schools dealing with curriculum and instruction in areas which have a broad scope of application rather than a specific level.

**Prerequisite(s):** Approval of Advisor.

**TED 8110 EDUCATIVE MENTORING IN EDUCATIONAL SETTINGS (3 credits)**

The purpose of this course is to develop candidates' knowledge of educative mentoring, or mentoring that leads to teacher growth. Candidates will develop their knowledge through reading seminal and current work in the field and comparing the published work to their own experiences through writing and discussion. The course will culminate in candidates designing, implementing, and reflecting on an educative mentoring plan in their context that could be used with beginning teachers or pre-service teacher candidates.

**Prerequisite(s):** Graduate Standing

**TED 8120 FOUNDATIONS OF MULTILINGUAL LEARNERS (3 credits)**

TED 8120 is designed to enhance graduate candidates' knowledge of the historical, political, and theoretical perspectives of K-12 English as a Second Language (ESL) education for English Learners (ELs). As dedicated practitioners, reflective scholars, and responsible citizens, graduate candidates will learn strategies for designing and promoting effective multicultural and multilingual learning environments. This course includes an in-school, guided practicum through which graduate candidates must demonstrate competencies related to standards related to teaching ELs in K-12 classrooms. This is the first of two practicum experiences to complete the field experience requirements for Nebraska Department of Education's ESL teaching endorsement.

**Prerequisite(s):** Not open to non-degree graduate students.

**TED 8130 LANGUAGE, CULTURE, AND POWER (3 credits)**

This course will focus on the intersection of language, culture, and power in the schools. This seminar will research how each component impacts the students and teachers in the classroom.

**TED 8140 SPECIAL METHODS IN MULTILINGUAL LEARNERS EDUCATION: CULTURALLY RESPONSIVE TEACHING FOR MULTILINGUAL (3 credits)**

This course is designed to develop theoretical knowledge of culturally responsive teaching practices and connect them to practical skills that support multilingual learners (MLs). All four language domains will be emphasized, and specific strategies will be acquired to enhance these domains in every lesson. This course requires a 25-hour practicum. It's an in-school, guided practicum completed within a highly populated ML classroom with an ML teacher or building supervisor as a mentor teacher. This is the final practicum to earn an ESL endorsement. Districts use different terminology (ESL, EL, ELL, etc.). For consistency, this course will use the term ML.

**Prerequisite(s):** Pre-requisite TED 8120. This class requires a 25-hour practicum.

**TED 8150 ANTI-RACISM EDUCATION: PRINCIPLES AND PRACTICES (3 credits)**

This course provides a theoretical analysis of race, racism and the implications for anti-racist education. In addition to exploring the key features of anti-racism education, the course also addresses other axes of oppression, namely, class and gender, with a critical focus on racialized power and privilege, and how such features function in the broader U.S. context as well as the schooling environment. Of equal importance is a critical interrogation of the historical, ideological, and political processes that produce and maintain racism. Course participants explore pedagogies, curriculum, and school leadership strategies as mechanisms for instituting anti-racism work in schools and community.

**Prerequisite(s):** Graduate Status

**TED 8160 MULTILINGUAL STRATEGIES FOR PK-12 EDUCATORS (3 credits)**

This course is designed to enhance graduate candidates' knowledge of PK-12 English as a Second Language (ESL) pedagogical and assessment strategies that address the needs of Multilingual Learners (MLs) in content area classrooms. As dedicated practitioners, reflective scholars, and responsible citizens, graduate candidates will be able to explore evidence-based pedagogical and assessment strategies to use in educational contexts serving MLs.

**Prerequisite(s):** Graduate candidate status. Not open to non-degree graduate students.

**TED 8170 DEVELOPMENTAL ASSESSMENT OF THE YOUNG CHILD (3 credits)**

This course is designed as a survey of developmental assessment in early childhood education (ages birth to eight years). Selection of assessment tools and strategies, implementation, data collection, analysis of results, and teaching impact are addressed in context of key assessment purposes in the early childhood field.

**Prerequisite(s):** Graduate status.

**TED 8180 CULTURALLY RESPONSIVE TEACHING (3 credits)**

This course includes an introductory analysis of the societal and institutional processes and problems which have bearing upon the education of children in urban settings. In addition, the course will focus on knowledge, skills and dispositions related to instructional strategies and classroom management needed for effective teaching in an urban environment.

**Prerequisite(s):** Graduate status

**TED 8190 CONTEMPORARY ISSUES IN URBAN EDUCATION (3 credits)**

This course is designed for candidates who wish to keep abreast of contemporary issues which confront the educational institution and teaching profession within the urban milieu.

**Prerequisite(s):** Graduate Status

**TED 8200 SOCIAL WORLDS OF THE YOUNG CHILD (3 credits)**

This course will explore theoretical and cultural perspectives on the social and emotional development of young children. This course will also examine the relationship between social emotional development, guidance practices, democratic life skills, and school readiness.

**Prerequisite(s):** Graduate status.

**TED 8210 EQUITY AND SOCIAL JUSTICE IN EDUCATION (3 credits)**

This course will develop practicing teachers' awareness of and skill in meeting the needs of P-12 students with regards to the areas of human understanding, acceptance and value. Candidates will examine existing attitudes towards various minority groups such as racial, ethnic, gender, exceptionality, etc. School materials and attitudes will also be examined in determining the effect they have on PK-12 students.

**Prerequisite(s):** Admission to Graduate College.

**TED 8220 PLAY AS A LEARNING MEDIUM IN EARLY CHILDHOOD EDUCATION (3 credits)**

This course provides an in-depth examination of young children's play and its curricular role in the early childhood classroom. The origins, developmental outcomes, assessment, curricular implementation, and evaluation of play will be covered, with an emphasis on play as a major component of developmentally appropriate practice with young children. The focus is on teachers learning to help children become partners in the operation of the learning environment.

**TED 8230 LITERATURE FOR THE YOUNG CHILD (3 credits)**

Literature for the young child is examined through the lens of developmentally appropriate practice for informing educators' interactions with children and also for developing high-quality, literature-related projects of study across the early childhood (birth-through-age-eight) continuum.

**Prerequisite(s):** Graduate Status.

**TED 8240 FAMILY, SCHOOL, AND COMMUNITY PARTNERS (3 credits)**

This course will examine the purposes and methods for developing family, school, and community partnerships. Candidates will explore characteristics of diverse families and develop the skills necessary for planning, design, implementation, and evaluation of effective partnerships in early childhood settings.

**Prerequisite(s):** Graduate Status.

**TED 8250 ASSESSMENT FOR CLASSROOM TEACHER (3 credits)**

This course studies assessment principles, effective practices, and classroom assessment processes throughout the curriculum. The research regarding assessment for learning is studied and application is made to classroom practices.

**Prerequisite(s):** Graduate status.

**TED 8260 ADVANCED CURRICULUM IN EARLY CHILDHOOD (3 credits)**

This course is designed to provide an in-depth examination of the processes used in selecting and implementing appropriate curricular content in programs for children ages three to eight years. Particular emphasis is on the role of the teacher as a dedicated practitioner and reflective scholar in the early learning environment.

**TED 8270 TRENDS IN EARLY CHILDHOOD EDUCATION (3 credits)**

This course provides a context for examining socio-political and research-based influences underlying trends in early childhood education at the local, national and international levels.

**Prerequisite(s):** Graduate Status.

**TED 8280 INTRODUCTION TO HUMAN RIGHTS IN P-12 EDUCATION (3 credits)**

The course examines the intersection of human rights and P-12 education and prepares individuals to effectively work with and advocate for children and adolescents in educational settings. Students completing the course will be able to 1) demonstrate an increased understanding of fundamental human rights with a specific emphasis on education rights and the human rights of children and adolescents 2) create learning environments that elevate human rights in educational settings and 3) design developmentally appropriate instruction for children and adolescents on varied human rights topics.

**Prerequisite(s):** Graduate Status

**TED 8290 TRAUMA INFORMED EDUCATION (3 credits)**

This course will present approaches to create trauma-informed classrooms which includes definitions and characteristics of trauma and how it impacts children, a brief history of trauma and associated theories/models, and a practice of skills for intervention in the classroom to support students and their families. Topics include applied teaching strategies which describe research-based techniques to support students with a history of trauma, as well as strategies to recognize signs of secondary trauma and burnout, followed by ways to mitigate them using research-based self-care techniques. (Cross-listed with COUN 8440).

**TED 8300 EFFECTIVE TEACHING PRACTICES (3 credits)**

This course focuses on specific characteristics and behaviors of effective teachers. Course content will be derived from research on teaching and learning.

**Prerequisite(s):** Graduate status

**TED 8310 HUMAN DEVELOPMENT - CONTEMPORARY IMPLICATIONS FOR TEACHING & LEARNING (3 credits)**

This course examines human growth and learning from birth through late adolescence. It is designed to prepare teachers to synthesize information regarding developmental theory and subsequently apply this to lesson design and effective content-area pedagogy. Candidates will examine multiple frameworks related to the cognitive, social/emotional, and physical development of children and use those to analyze current educational practices in PK-12 schools. Cultural influences impacting human development and implications for educational practices will also be examined. The course will include field-based experiences.

**Prerequisite(s):** Admission into a Teacher Education Department graduate program.

**TED 8320 STRENGTHENING LEADERSHIP CAPACITY THROUGH RESEARCH AND COMMUNITY COLLABORATION (3 credits)**

In Strengthening Leadership Capacity through Research and Community Collaboration, students extend their knowledge, reflective practice, and leadership to a community context. The course is designed create a mutually beneficial partnership between students' research agendas and community agencies. The goal is to enhance students' learning of content, understand the community, and perpetuate a sense of civic agency. Additionally, students further their research by submitting an article for publication.

**TED 8340 PRINCIPLES OF LINGUISTICS FOR EDUCATORS (3 credits)**

The purpose of this course is to develop an understanding of theory and practice as it relates to the essential components of linguistics for teaching in a PK-12 setting, including but not limited to phonology, morphology, syntax, language acquisition and sociolinguistics. This knowledge is applied through a series of assignments in which students are tasked to apply a linguistic theory to the real teaching contexts to develop the skills of integrating the knowledge of how language works into their teaching of PK-12 students.

**Prerequisite(s):** Graduate Standing

**TED 8350 APPLIED COACHING FOR EDUCATORS (3 credits)**

Candidates in this course will partner with classroom or pre-service teachers to help them examine their teaching, reflect on their practice and support their goals for professional growth. Candidates completing this course will build upon previous coursework to apply their learning by conducting coaching cycles using pre-observation and post-observation conferences. Candidates will use data and reflection to grow in their coaching practice.

**Prerequisite(s):** Graduate Standing, TED 8110: Educative Mentoring, TED 8720: Introduction to Educational Coaching

**TED 8370 DATA VISUALIZATION AND MODELING FOR EDUCATORS (3 credits)**

In the growing context of data informed decisions there is a need to answer "what if" questions in a variety of decision-making situations, as well as to display data both visually and interactively. This course will provide foundational skills in data visualization and modeling for educational decision making and instruction. It draws upon key fundamentals in data visualization (representing data trends visually) as well as key strategies in data modeling (interactive representations to explore possible outcomes). The course also explores the use of visualization and modeling technologies as well as assisting student learning with these tools. (Cross-listed with STEM 8370).

**TED 8376 TEACHING AT THE MIDDLE LEVEL (3 credits)**

This course will provide candidates with a variety of middle level teaching techniques and strategies in their classrooms that have been identified in current research literature as appropriate for the middle level. This course is designed to introduce candidates to the unique characteristics of the middle student, school, curriculum, history, and philosophy. (Cross-listed with TED 4370).

**Prerequisite(s):** TED 2300 or EDUC 2010 or TED 2380.

**TED 8390 CLASSROOM MANAGEMENT IN PRACTICE (3 credits)**

This course will provide graduate students with a survey of general classroom management methods for classrooms. Candidates will enhance their understanding of three basic components of effective pedagogy: 1) proactive classroom management, 2) high-impact instructional strategies that impact student engagement and learning, 3) behavior management techniques that incorporate practice, feedback, research, and reflection.

**Prerequisite(s):** Graduate standing

**TED 8400 ASSESSMENT AND INTERVENTIONS OF PK-12 READERS (3 credits)**

This course is designed for graduate candidates enrolled in the Literacy MS or reading specialist endorsement program. The purpose of this course is to develop an understanding of theory and research as it relates to assessment, evaluation and instructional approaches that support Pk-12 reading development. This knowledge is applied through a practicum experience with Pk-12 students in which candidates integrate knowledge and practices related to assessment and evaluation of readers' strengths and needs.

**Prerequisite(s):** Graduate Standing

**TED 8410 IMPROVEMENT OF INSTRUCTION: SPECIAL TOPICS (3 credits)**

This course provides an in-depth study of instructional theory, research, and methodology designed to extend teachers' professional knowledge base and enhance their pedagogical skills. When offered, a course may be limited to improvement of instruction in a selected subject area. (Cross-listed with STEM 8410).

**Prerequisite(s):** Graduate standing.



**TED 8420 TRENDS AND TEACHING STRATEGIES IN SCIENCE EDUCATION (3 credits)**

This course is designed for the graduate candidate in the Department of Teacher Education whose study program emphasis is in the area of science education. The course will describe and analyze past and present trends in science education, including curricula, teaching-learning strategies, the laboratory and instructional materials. The course focus will be K-12 and as such is meant to serve both elementary and secondary graduate candidates. (Cross-listed with STEM 8420).

**TED 8430 SCHOOL CURRICULUM PLANNING (3 credits)**

This course is designed to provide advanced degree candidates with an understanding of the theory, principles, and practices utilized in curriculum planning in American schools. This course focuses on the principles and practices of effective curriculum planning and teachers' part in these processes as curriculum developers. (Cross-listed with STEM 8430).

**TED 8470 TEACHING THE LANGUAGE ARTS (3 credits)**

This course is designed to enhance candidates' knowledge of best practices in teaching reading, writing, listening, and speaking. Candidates will learn about research supported appropriate language arts instruction strategies and assessments. This course will inform graduate students as dedicated practitioners, reflective scholars, and responsible citizens who can meet the challenges of their professions in a changing world.

**TED 8480 FOUNDATIONS OF BILINGUAL EDUCATION (3 credits)**

This course is designed to give future and current teachers a thorough understanding of the theoretical, political, historical, and practical foundations of bilingual/multicultural education in the United States. As dedicated practitioners, reflective scholars, and responsible citizens, graduate students will have knowledge of factors that contribute to effective multilingual and multicultural learning environments that promote individual and societal bilingualism. Advanced Spanish language proficiency required.

**Prerequisite(s):** Graduate status

**TED 8490 SPANISH LANGUAGE ARTS (3 credits)**

This course is designed to reinforce first and second language acquisition theory as it relates to dual immersion settings. Best practices for developing and reinforcing bilingualism and biliteracy are presented and used for planning and delivering instruction. Spanish fluency is required for the course.

**Prerequisite(s):** Graduate status required for graduate students pursuing the bilingual education endorsement and concentration (does not lead to a Nebraska Department of Education teaching endorsement). Advanced Spanish language proficiency required.

**TED 8510 AEROSPACE EDUCATION WORKSHOP (3 credits)**

This course will focus on aviation and space education and its impact on society. It will seek to communicate knowledge, impart skill, and develop attitudes relative to the scientific, engineering and technical as well as the social, economic and political aspects of aviation and space flight efforts. (Cross-listed with AVN 8510, STEM 8510).

**Prerequisite(s):** Graduate standing.

**TED 8520 SCHOOL LIBRARY PRACTICUM (3 credits)**

Candidates will gain direct experience and an understanding of the theories, concepts and activities integral to public services, technical services, and the administration in a 21st Century library and information agency at an assigned field site. Candidates will demonstrate the ability to plan, develop, and implement programming and services for patrons and diverse learners in their schools and communities.

**Prerequisite(s):** Candidates must be in the final 2 semesters of their school library program & must complete an application for the Practicum the semester prior to their practicum. Not open to non-degree graduate students.

**TED 8530 INSTRUCTIONAL DESIGN STRATEGIES FOR STEAM EDUCATORS (3 credits)**

This course is designed to provide graduate candidates with the opportunity to enhance interdisciplinary instructional strategies, curricular understanding, and lesson preparation in the areas of science, technology, engineering, the arts, and mathematics (STEAM) through analysis and reflective practices in STEAM. This course provides hands-on experiences that model STEAM integration techniques, including how to effectively engage with community agencies and partners to bring STEAM into the classroom. This course emphasizes not only the technical aspects of STEM, but also the creativity and innovation that arts integration can add to enhance STEM curriculum. Teacher professionals will be provided with tools, resources, and strategies to help them explore and enhance current, new, or supplemental curriculum activities that will enhance STEAM learning, student engagement, and motivation. (Cross-listed with STEM 8530).

**Prerequisite(s):** This course includes both teacher education and STEAM related topics and therefore fits into both TED and STEM program coursework.

**TED 8540 DIGITAL CITIZENSHIP (3 credits)**

The course explores key concepts of Digital Citizenship pertaining to digital law, digital ethics, digital interaction, digital literacy, and cyber-security. The course addresses an educator's role as technology leader in both policy and practice to establish a responsible and robust digital learning community in P-12 schools.

**Prerequisite(s):** Graduate Standing/Status

**TED 8550 TECHNOLOGY FOR CREATIVE AND CRITICAL THINKING (3 credits)**

Technology for Creativity and Critical Thinking investigates the use of visual media tools in P-12 digital learning environments. This course provides candidates an opportunity to develop leadership skills and dispositions relevant to advocacy initiatives addressing policy and best practice in the use of technology in P-12 schools. The course encourages educators to critically evaluate and analyze digital tools supporting creativity and critical thinking through research and project development.

**TED 8560 TECHNOLOGY FOR DIVERSE LEARNERS (3 credits)**

This course will explore categories of diverse learners and how to effectively research and implement assistive technology, software, and tools to enhance their learning opportunities. Candidates will learn how to facilitate the use of instructional technology, pedagogy, and strategies to better meet the needs of diverse learners. With a focus on Universal Design for Learning paired with technology resources, candidates will become proficient in their ability to create learning activities that increase student learning outcomes. Throughout the course, candidates will be challenged as a leader to connect professionally, locally, and nationally to learn and share from professional peers.

**TED 8570 INTERNET IN THE LEARNING PROCESS (3 credits)**

This course is designed to help educators actively explore instructional implementations of Internet use appropriate for use in K-12 classrooms, successful diffusion of Internet innovations in educational environments, and emerging multicultural "breaking down the walls of the classroom" concepts available to educators through Internet use.

**TED 8580 ONLINE TEACHING AND LEARNING (3 credits)**

Online Teaching and Learning is a course for education professionals that investigates the use of online tools for planning, preparing and assessing student learning in an online teaching and learning environment. The course will prepare candidates to provide leadership for online teaching and learning initiatives within learning organizations. The course encourages education professionals to explore methods of virtual lesson delivery and online assessment through direct instruction, discussion, and project development.

**Prerequisite(s):** Graduate Admissions status



**TED 8590 TEACHING AND LEARNING IN DIGITAL ENVIRONMENTS (3 credits)**

This course is an introduction to future-ready information, digital learning environments, and instructional technologies for use with children and youth. Course will cover a diverse array of technical literacies that serve as content and skill goals for today's children and youth in P-12 schools and other learning environments.

**TED 8610 TEACHING OF WRITING THROUGHOUT THE CURRICULUM (3 credits)**

This course will develop candidates' understanding of the various aspects of writing to integrate throughout the content areas. Candidates will acquire and apply a common language for teaching and assessing student writing and investigate the varied ways writing genres extend throughout the curriculum. Candidates will examine research-supported writing instruction and the role write-to-learn strategies play in supporting diverse students in accessing and understanding content-specific information.

**Prerequisite(s):** Graduate status.

**TED 8640 OPEN EDUCATIONAL RESOURCES FOR P-12 TEACHERS (3 credits)**

TED 8640 Open Educational Resources for P-12 Teachers affords opportunities to study, evaluate, plan, and implement the open educational resources (OERs) to meet state, district, or diocese content standards and support equitable remote learning experiences. Graduate candidates will develop respective P-12 grade- and/or content-appropriate content/curriculum utilizing OERs focused on STEM (Science, Technology, Engineering, and Mathematics) education and the use of technology integration to foster effective teaching and learning.

**TED 8650 CHILDREN'S LITERATURE AND EDUCATION (3 credits)**

Candidates in this graduate course will explore story, poetry, drama, and informational materials for elementary students with an emphasis on methods for including literature in school curricula with an awareness of diverse children's lives, discourses, and understandings. Examines current issues, recent materials, and the theoretical and research base of this field to develop meaningful and creative learning, literacy, and library experiences for children.

**TED 8660 YOUNG ADULT LITERATURE (3 credits)**

This course extends candidates' knowledge of literature for young adults. The course addresses current trends in the genre and engages candidates in activities that support pedagogies in basic, visual, information and cultural literacies.

**Prerequisite(s):** Graduate status

**TED 8695 LITERACY AND LEARNING (3 credits)**

This course examines ways in which reading and writing can facilitate student learning in content areas studies (e.g., science, social studies, physical education, art, music, and math). The main focus is on teaching practices that engage students and contribute to their learning, integrating their background knowledge and cultural experiences with content area literacy. (Cross-listed with TED 3690).

**TED 8700 ELEMENTARY EDUCATION CAPSTONE (3 credits)**

This course is designed as a required, final capstone course for Elementary Education graduate students to be taken in the last nine hours of the Master of Science program. A grade of B or better must be received in TED 8700 to show satisfactory completion of the course and for program completion.

**Prerequisite(s):** Permission of the Elementary Education Program Chair. Not open to non-degree graduate students.

**TED 8710 RESEARCH AND INQUIRY (3 credits)**

The purpose of this course is for candidates to gain an overview and understanding of questioning, inquiry, and research strategies used in future ready P-12 libraries in order to ensure access to reference services and resources in a variety of formats and to design and support information literacy and inquiry-based instruction for all members of the learning community.

**TED 8720 INTRODUCTION TO INSTRUCTIONAL COACHING IN PK-12 EDUCATION (3 credits)**

This course examines the prominent coaching models used in PK-12 schools (i.e. teacher-centered coaching, student-centered coaching, cognitive coaching, transformational coaching). Candidates completing this course will be able to: develop an understanding of best practices in coaching, create a common lexicon for the role of an instructional coach, engage in the coaching cycle, and create a personal vision for their work as a coach. Candidates will engage in a field based experience to apply their learning.

**Prerequisite(s):** Graduate Status

**TED 8726 SPECIAL LIBRARIES AND INFORMATION AGENCIES (3 credits)**

Candidates will demonstrate an understanding of the major types of 21st Century special libraries and information agencies. Candidates will demonstrate an understanding of social and political environments, clientele, services, collections, physical settings, financing and staffing, and future trends in the special libraries and information agencies. (Cross-listed with TED 4720).

**TED 8730 PK-12 CAPSTONE (3 credits)**

The PK-12 Graduate Capstone course provides candidates with an opportunity to apply the knowledge, skills, and dispositions acquired during their program to content specific synthesis activities in their respective disciplines. Students will demonstrate their ability to integrate information from program coursework in the design, development and presentation of a final capstone project related to teaching and learning.

**Prerequisite(s):** Graduate standing. Limited to those in online pathways. Not open to non-degree graduate students.

**TED 8740 ORGANIZATION OF INFORMATION (3 credits)**

Candidates will demonstrate the ability to integrate the legal and ethical standards of their discipline in ensuring access to information and ideas for a diverse array of learners in schools and communities. This course also addresses current theory and best practice in descriptive and subject cataloging and classification of information resources that align with school library standards and guidelines.

**TED 8746 ORGANIZATION OF INFORMATION (3 credits)**

Candidates will demonstrate a basic understanding of the theories, concepts and activities of descriptive and subject cataloging and classification procedures of information resources in 21st Century libraries and information agencies.

**TED 8750 OXBOW WRITING PROJECT (3 credits)**

Oxbow Writing Project summer institute immerses K-16 educators in writing pedagogy via their own writing, presentations about writing and pedagogy, reading and discussing professional literature, designing and implementing an in-depth inquiry project, and developing leadership strengths. Oxbow is a National Writing Project Site. (Cross-listed with ENGL 8750).

**Prerequisite(s):** Acceptance into Oxbow Writing Project Summer Institute

**TED 8760 MANAGING COLLECTIONS IN LIBRARIES AND INFORMATION AGENCIES (3 credits)**

Candidates will demonstrate an understanding of the theories, concepts and activities integral to proactive collection management in 21st Century libraries and information agencies. Candidates will demonstrate an understanding of community analysis, collection analysis, and the ability to conduct critical evaluations of a diverse array of information resources.

**TED 8770 INTEGRATING TECHNOLOGY INTO INSTRUCTIONAL DESIGN (3 credits)**

The purpose of this course is to introduce participants to effective methods for the integration of educational media into instructional design and provides participants (1) knowledge of broad instructional design theories and models with a concentration on constructivism, (2) experience in designing instruction that effectively integrates technology into the teaching-learning process, and (3) experience in producing instructional media. The course is intended to provide fundamentals in the selection, evaluation, production, application and utilization of educational media. This course is designed for in-service library media or instructional technology specialists as well as regular classroom teachers.

**Prerequisite(s):** Graduate status

**TED 8780 FOUNDATIONAL SKILLS OF EARLY LITERACY (3 credits)**

This course builds knowledge and instructional practices focused on early literacy foundational skills. With a focus on the components of foundational skills: (print concepts, phonological awareness, phonics and word recognition, and fluency) candidates will be able to identify concrete strategies to support Pk-3 student learning and practice. The course helps to build knowledge and skills of evidence-based early literacy instruction and provides resources to support teachers' planning and instruction.

**Prerequisite(s):** Graduate Standing

**TED 8800 MULTICULTURAL LITERATURE FOR CHILDREN AND YOUTH (3 credits)**

This is designed as a graduate-level course dealing with utilization of literary materials representing authors and content from multiple perspectives, particularly authors whose cultural and ethnic backgrounds differ from the mainstream.

**TED 8810 STEM CURRICULUM AND RESEARCH FOR ELEMENTARY AND EARLY LEARNERS (3 credits)**

This course will explore theoretical and foundational pedagogical strategies in elementary and early childhood used to deliver integrative STEM education in the preK-12 setting. In order to understand the research and practice of STEM disciplines in preK-12, it is necessary to examine the social, cultural, political, and functional aspects that influence them. Candidates will investigate the nature of STEM education, Early Childhood Education (ECE) pedagogy and perspectives of learning, content knowledge and dispositions for educators of STEM topics, and issues of access and equity for STEM education through literature, discussion, and practice. This course includes a community outreach component in which candidates will use qualitative methods to observe class topics in public settings. (Cross-listed with STEM 8810)

**Prerequisite(s):** Graduate status

**TED 8816 PRINCIPLES AND PHILOSOPHY OF INTEGRATING CAREER AND ACADEMIC EDUCATION (3 credits)**

This course presents the philosophies and principles/practices underlying how schools can better prepare students for the workplaces of the future with emphasis on the integration of career education within broader academic preparation. The roles and responsibilities of teachers, counselors, and administrators in implementing integrated approaches will be examined. (Cross-listed with TED 4810).

**TED 8820 CAPSTONE IN STEM EDUCATION (3 credits)**

This course will prepare graduate students for the integration, articulation, and differentiation of curriculum and instruction in and between the STEM core areas of Science, Technology, Engineering, and Mathematics. Special emphasis will be on using the STEM core content to help provide applications and context to existing science and mathematics curriculum and instruction and on providing leadership in developing curriculum for mathematics and science dependent courses in engineering and technology.

**Prerequisite(s):** The student must be enrolled in one of the following concentrations: STEM, mathematics, science, technology; and be enrolled in the last six hours of their program of study. Not open to non-degree graduate students.

**TED 8830 LEADERSHIP AND MANAGEMENT IN SCHOOL LIBRARIES (3 credits)**

The course explores best practice for effective leadership and management of 21st Century school libraries. Candidates will gain a comprehensive knowledge of the theories, policies and processes involved in directing a school library in support of the personal and academic success of P-12 students. Candidates will explore and employ ethical codes of conduct in their profession to ensure school libraries meet the needs of their diverse array of patrons.

**TED 8840 ENGINEERING EDUCATION EXTERNSHIP (3 credits)**

This graduate course will address the best practice of effective teaching and learning in Engineering Education through professional collaboration between K-12 STEM (Science, Technology, Engineering, and Mathematics) teachers and practicing engineering professionals. K-12 STEM teachers, as graduate students in the course, will learn about and address real-world applications and career opportunities in STEM education through the externship. K-12 STEM teachers will research and develop authentic, experiential learning opportunities and projects for the classroom through course supports associated with lecture, discussion, and partnerships with practicing engineering professionals. The externship will be integral to the K-12 STEM teachers' experiences and work in this course, as the course models effective professional collaboration founded on experience, knowledge, and skills to achieve a curriculum enhancement goal. (Cross-listed with STEM 8840).

**Prerequisite(s):** Graduate status. Not open to non-degree graduate students.

**TED 8850 PROFESSIONAL COLLABORATION (3 credits)**

This course is designed to prepare candidates to work in collaboration with other professionals and parents to create a learning environment that enhances the potential for academic success and improvement of instructional practices. The focus will be on collaborative problem solving. (Cross-listed with SPED 8980).

**Prerequisite(s):** Admission to Graduate College.

**TED 8856 COORDINATION TECHNIQUES IN WORK-BASED LEARNING (3 credits)**

This course reviews responsibilities and techniques of coordination for the work-based learning teacher-coordinator and/or work-based learning coordinator, with special emphasis on administration of the part-time cooperative program and analysis of the laws and regulations governing this program. (Cross-listed with TED 4850).

**TED 8860 INVENTION & INNOVATION IN ENGINEERING EDUCATION (3 credits)**

This course will address emerging trends in STEM education for in-service K-12 STEM teachers with a focus on the use of engineering education practices in teaching and learning content. STEM teachers will receive applicable, hands-on, classroom-ready experiences through lecture, professional instruction, and projects that will emphasize product design and creation through the Engineering Design Process. The Engineering Design Process will be central to the candidates' experiences in this course and will be used by the candidates to develop curriculum utilizing emerging trends to supplement current course content and standards. Interdisciplinary planning will be central to the course. (Cross-listed with STEM 8860).

**Prerequisite(s):** Graduate status is required.

**TED 8870 RESEARCH WITH CHILDREN (3 credits)**

This class will focus on research methods and methodologies specific for conducting research with children (birth-17 years). Graduate students will learn how to read, review, analyze and interpret significant research studies that engage directly with children and learn how to design and conduct research that ethically respects children as participants in research. The pedagogical aim is to understand key concepts and critical thinking about research methodologies with children. Graduate students will read research that positions children of different economic, cultural, and linguistic backgrounds as valuable assets in research and recognizes ethical ways to engage with children in authentic settings.

**Prerequisite(s):** Graduate standing.

**TED 8880 LEADERSHIP IN EARLY CHILDHOOD EDUCATION (3 credits)**

This course seeks to prepare candidates with leadership skills in the early childhood field that will empower them to initiate and implement changes in programs serving young children and families. Candidates will explore and apply frameworks of leadership and analyze policy, governance, and power structures that can impact change. Candidates will also learn effective advocacy skills to positively influence policies and practices in program and governance structures. Lastly, candidates will examine approaches for developing new leaders in early childhood education through reflective supervision and mentorship.

**Prerequisite(s):** Graduate status.

**TED 8900 SECONDARY EDUCATION GRADUATE CAPSTONE (3 credits)**

The Secondary Education Graduate Capstone course provides candidates with an opportunity to apply the knowledge, skills, and dispositions acquired during their program to content specific synthesis activities in their respective disciplines. Candidates will demonstrate their ability to integrate information from program coursework in the design, development and presentation of a final capstone project related to teaching and learning in 21st Century educational environments.

**Prerequisite(s):** 30 credit hours towards degree completion; Permission required by Program Advisor. Not open to non-degree graduate students.

**TED 8970 INDEPENDENT STUDY (1-3 credits)**

This is a specially designed course taken under the supervision of a graduate faculty member to accommodate the student who has identified a focus of study not currently available in the departmental offerings and who has demonstrated capability for working independently.

**Prerequisite(s):** Permission of Department and Graduate Faculty member.

**TED 8980 PRACTICUM: VARIOUS CONTENT AREAS (1-6 credits)**

This course is designed to provide school professionals with a guided, supervised, field experience that will develop and enhance the knowledge, skills, and dispositions requisite of a successful educational practitioner.

**Prerequisite(s):** Prerequisites for the course will vary, depending on the content/discipline area. See syllabus for specific discipline area.

**TED 8990 THESIS (1-6 credits)**

This course is an independent research project completed under the direction of a thesis advisor and required of all candidates pursuing a Master of Science with Thesis option.

**Prerequisite(s):** Completion of Selective Retention and approval of advisor. Not open to non-degree graduate students.

**TED 9100 THEORIES, MODELS, AND PRACTICES OF LITERACY (3 credits)**

This course helps candidates develop a framework about the theories, models, practices, processes, and related research associated with literacy. The content looks across grade levels and student populations, and across social and cultural contexts in an examination of factors that impact theories and processes of literacy.

**Prerequisite(s):** Graduate status.

**TED 9110 PRINCIPLES AND PRACTICES FOR TEACHING READERS (3 credits)**

This foundational reading course is to provide candidates with a broad understanding of the core reading principles (phonological awareness, phonemic awareness, fluency, vocabulary and comprehension) as they relate to research, evidence-based practices and diverse students' literacy development. Candidates will also explore educational trends and shifts in literacy policies and approaches, and the impact these trends and shifts have on PK-12 classroom practices.

**TED 9120 GRADUATE IN-SERVICE TEACHING (3 credits)**

This is a graduate experience for in-service teachers pursuing teacher certification. Candidates must successfully complete a minimum of 100 hours (or per program of study) of field experience prior to completing their in-service teaching experience.

**Prerequisite(s):** Graduate standing. Permission. Applications go to the Office of Field Experiences. Not open to non-degree graduate students.

**TED 9130 ASSESSMENTS AND INTERVENTIONS - ELEMENTARY (3 credits)**

This course is designed for graduate candidates enrolled in the Literacy Masters or Reading Specialist endorsement program. The purpose of this course is to develop an understanding of theory and research as it relates to assessment and evaluation and instructional approaches that support reading development. This knowledge is applied through a practicum experience with elementary students in which candidates integrate knowledge and practices related to assessment and evaluation of readers' strengths and needs.

**TED 9140 ASSESSMENT AND INTERVENTION - SECONDARY (3 credits)**

This course is designed for graduate candidates in literacy endorsement and Master's programs. The purpose of this course is to develop an understanding of the theory and research driving assessment and evaluation and instructional approaches as they relate to reading differences for middle and high school students. Included in this course is knowledge about the role and responsibility of a literacy leader with regard to coaching, mentoring, supervision, and evaluation of a reading program. Application of this information is demonstrated through a practicum experience with middle and high school students.

**Prerequisite(s):** TED 9100; TED 9110 concurrent with, or prior to TED 9140.

**TED 9180 LITERACY RESEARCH SEMINAR (3 credits)**

This course will enhance candidates' understanding and ability to critically examine, apply, and conduct current literacy research by developing understandings of how to (1) discuss historical trends in literacy research, (2) critically evaluate the designs, theories, methods and tools of literacy research, and (3) develop understandings of action research to plan and implement a preliminary literacy research study in their own context. Candidates will develop a research proposal that is grounded in theory and action research methods within their own learning context.

**TED 9190 LITERACY GRADUATE CAPSTONE (3 credits)**

The Literacy Program Graduate Capstone course provides candidates with an opportunity to synthesize the knowledge, skills, and dispositions acquired during their program to honor the interrelationships among classroom, school, sociocultural, and community contexts as they relate to diverse students' literacy development. Candidates will demonstrate their ability to integrate information from program coursework in the design, development, and presentation of a final capstone project related to teaching, learning, and literacy advocacy in 21st Century educational environments.

**Prerequisite(s):** This course is designed as a capstone event. Accordingly, students must have no more than 6 additional remaining credit hours of coursework. Permit to enroll required.

**TED 9200 CRITICAL PEDAGOGY: TEACHING FOR SOCIAL JUSTICE (3 credits)**

This course examines ways in which ideology, power, and culture intersect in P-12 educational settings. Undemocratic, inequitable, and oppressive structures are identified. Possibilities for democratic, equitable transformations are proposed.

**Prerequisite(s):** Graduate status

## Theatre (THEA)

### Theatre Graduate Courses

**THEA 8446 DIRECTING II (3 credits)**

A practicum in play selection, analysis, casting, rehearsing and performing.

**Prerequisite(s):** Graduate standing with an undergraduate major or minor in theatre or permission of the instructor.

**THEA 8615 COLLABORATIVE DESIGN STUDIES (3 credits)**

Collaborative Design Studies explores the integration and process of theatrical production including scenery, lighting, costume, projection and sound. It chronicles their individual and collective impact on storytelling. While developing the skills of the Scenographer, students will work collaboratively as they foster their individual artistic design talents, and recognize the impact of design on society through storytelling.

**Prerequisite(s):** Graduate Standing or Permission of Instructor

**THEA 8665 STAGE AND TV LIGHTING (3 credits)**

Characteristics and control of light and color and their application to the theatre and television; elementary electricity; lens systems; reflectors; lamps; control systems; automation. (Cross-listed with THEA 3660).

**Prerequisite(s):** Graduate status or permission of instructor.

**THEA 8755 THEATRE AND SOCIAL JUSTICE (3 credits)**

This service-learning course will combine both research and practice in theatre that involves social change. Students will study the history of such theatre, with special focus on developments in the 20th century. All research will be accompanied by several community-based projects whereby students will create theatre with specific populations (schools, community centers, health centers, senior homes, etc.).

**Prerequisite(s):** Graduate in theatre. Graduate outside theatre with sufficient background in theatre and sociology political science requires permission of the instructor.

## Urban Studies (UBNS)

### Urban Studies Graduate Courses

**UBNS 8000 SEMINAR IN URBAN STUDIES (3 credits)**

This course provides an interdisciplinary overview of the forces influencing and influenced by urbanization and urbanism. (Cross-listed with GEOG 8830)

**Prerequisite(s):** Not open to non-degree graduate students.

**UBNS 8020 RACE, ETHNICITY, AND AMERICAN CULTURE (3 credits)**

This course explores two central themes, race and ethnicity, which have played a dominant role in the shaping of American society and American culture.

**UBNS 8060 INTRODUCTION TO URBAN PLANNING (3 credits)**

This course is an introduction to the development of urban planning as it has shaped and reacted to major trends in U.S. history. It provides students with major themes and traditions in the field of planning and includes planning practice, planning procedures and methods and contemporary issues in the field.

**Prerequisite(s):** Not open to non-degree graduate students.

**UBNS 8200 COMMUNITY ORGANIZING & SOCIAL CHANGE (3 credits)**

This course focuses on various theories and applications of organizing communities and neighborhoods to effect change. Of particular interest is the role of engaging citizens in improving their communities. (Cross-listed with PA 8200).

**Prerequisite(s):** Not open to non-degree graduate students.

**UBNS 8400 URBAN LEADERSHIP (3 credits)**

UBNS 8400 is an introduction to leadership in an urban setting. The course focuses on both theoretical and applied cases and strategies of effective urban leadership in a diverse society. Topics include leadership strategies for community engagement, neighborhood development, and nonprofit leadership. Profiles of urban leaders provide an applied setting for the course.

**Prerequisite(s):** Graduate student standing, but open to non-degree seeking students with Bachelor's degree; open to certificate students.

**UBNS 8500 URBAN POLICY (3 credits)**

Seminar on urban policies and policymaking. Attention is given to various current urban issues and the policy options surrounding them. Policy theories, policy processes, and the institutions of policymaking in cities are covered. Topics of focus include policies related to policing, economic development, land use, transportation, education, poverty, housing, and ordinances.

**Prerequisite(s):** Graduate student standing, but open to non-degree seeking students with Bachelor's degree; open to certificate students

**UBNS 8820 COMPARATIVE URBAN STUDIES (3 credits)**

Emphasis is upon contrasting the cities of the developed and developing areas of the world

**Prerequisite(s):** Not open to non-degree graduate students.

**UBNS 8940 DIRECTED RESEARCH IN URBAN STUDIES (3 credits)**

The course is intended for advanced graduate students in urban studies or geography. It is especially suited for those in-career students who have had their internships waived and who might profit more by in-depth research on a problem of urban studies rather than additional classroom courses. (Cross-listed with GEOG 8840).

**Prerequisite(s):** Completed 9 graduate hours in Urban Studies. Permission from the School. For Geography students, GEOG 8126 (Urban Geography) or permission from the School.

## Women's and Gender Studies (WGST)

### Women's and Gender Studies Graduate Courses

**WGST 8066 HISTORY OF WOMEN IN AMERICA FROM 1875 - 1992 (3 credits)**

This course examines the history of women in the United States from 1875 to 1992. Topics include law, work, sexuality and reproduction, immigration, civil rights, political participation and party politics, and changes to the American gender system, including family structure and employment. (Cross-listed with HIST 4060, WGST 4060, and HIST 8066).

**Prerequisite(s):** Graduate standing

**WGST 8105 LGBT POLITICS (3 credits)**

This course introduces students to the political struggle for Lesbian, Gay, Bisexual, and Transgender (LGBT) equal rights in the United States using a model of political empowerment, which may be applied for all minority or identity groups and social movements, generating operationalized measures of progress toward the loci of political power. (Cross-listed with PSCI 3100, PSCI 8105, WGST 3100)



**WGST 8135 WOMEN AND POLITICS (3 credits)**

This course introduces students to women's political participation, including holding elective office, socialization, the feminist movement and its opposition, and public policies with particular impact on women. The focus is on contemporary perspectives on women in American political ideas and behavior. (Cross-listed with PSCI 3130, PSCI 8135, WGST 3130)

**WGST 8156 GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (3 credits)**

An advanced seminar focused on links among geography, gender and work, emphasizing leadership and entrepreneurship. The course considers theory and method in addition to empirical work. The nature of space, of gender, and of work, are examined. Topics include the gendering of work, the geography of entrepreneurship, gender and leadership. (Cross-listed with WGST 4150, ENTR 4150, ENTR 8156, GEOG 4150 and GEOG 8156). **Prerequisite(s):** Junior, senior, or graduate standing, or permission of instructor.

**WGST 8216 GEOGRAPHIES OF SEXUALITIES (3 credits)**

How are geography and sexuality related? What have cities got to do with sexual identities? Can rural spaces foster diverse sexual communities? These and related questions are the focus of this upper-level undergraduate and graduate-level course. Students read scholarly work by and about LGBTQ+ (Lesbian, Gay, Bisexual, Transgender, Queer, and +), and cisgender people, and their lived experiences creating and inhabiting different geographies. Students gain an appreciation for the social construction of diverse sexualized spaces and considers questions about equity and policy through case studies in a variety of countries. Each student also researches a course-relevant topic they choose. (Cross-listed with GEOG 8216, GEOG 4210, WGST 4210).

**WGST 8235 GENDER AND GLOBAL POLITICS (3 credits)**

This seminar introduces students to gender politics in comparative and international politics. (Cross-listed with PSCI 3230, PSCI 8235, WGST 3230)

## World Languages and Literature (WLL)

### World Languages and Literature Graduate Courses

**WLL 8016 MULTIDISCIPLINARY APPROACHES TO THE STUDY OF LANGUAGE, CULTURE, AND SOCIETY (3 credits)**

This interdisciplinary course examines the dynamic connections between language, culture, and society by drawing from multiple fields of study including linguistics, cultural studies, and literature. Through various lenses, students explore topics such as cultural norms, social structures, individual identities, and intercultural communication. (Cross-listed with WLL 4010).

**WLL 8020 SEMINAR:FL/TESOL RESEARCH (3 credits)**

A survey of Second Language Acquisition theory and methodology culminating in a student-designed, classroom-based research project.

**WLL 8030 SEMINAR: SECOND AND BILINGUAL LANGUAGE ACQUISITION THEORY (3 credits)**

An advanced introduction to second and bilingual language acquisition theories based in neurolinguistics, psycholinguistics, and sociolinguistics. Students will explore various schools of thought about how people learn languages other than their language(s) of nurture; this includes languages that are acquired by adolescents and adults, both inside and outside the classroom.

**WLL 8040 SEMINAR: ASSESSMENT & CURRICULUM DESIGN (3 credits)**

This course will familiarize (future) language educators with current trends in the assessment of language skills as well as expose them to the design, implementation, and evaluation of second language curricula.

**WLL 8050 THEORY AND METHODS IN THE TEACHING OF HERITAGE LANGUAGES (3 credits)**

This course is designed to introduce graduate candidates to current theoretical and pedagogical approaches to teaching heritage languages in the United States. As dedicated practitioners, reflective scholars, and responsible citizens, students will be able to explore evidence-based pedagogical and assessment strategies to use in educational contexts serving bilingual/heritage speakers.

**Prerequisite(s):** SPAN 8086 or instructor permission

**WLL 8060 APPROACHES AND METHODS IN LANGUAGE TEACHING (3 credits)**

This course offers a foundation in the approaches and methods for the teaching of second language, third languages, and foreign languages from the perspectives of language acquisition research and language teaching pedagogy. The main goals are to teach teachers and applied linguistics researchers about current research-based approaches to teaching languages including content-based instruction, task-based instruction, and critical approaches. The course also dives into best practices for syllabus design, lesson planning, and creation of course and lesson objectives.

**Prerequisite(s):** Graduate standing

**WLL 8900 DIRECTED READINGS (3 credits)**

In this course, students will deepen their theoretical and practical understanding of topics pertaining to language acquisition in L2 and heritage language learners. Students meet this goal by participating in a teaching experience and engaging in targeted academic readings that inform their classroom practices.

**Prerequisite(s):** Permission of instructor and/or at least twelve graduate hours completed. Graduate non-degree students not allowed.

**WLL 8960 SEMINAR:SPECIAL TOPICS (3 credits)**

This course provides a format for the exploration of topics of interest to advanced foreign language/TESOL students.

## Writer's Workshop (WRWS)

### Writer's Workshop Graduate Courses

**WRWS 8000 FORM AND THEORY (3 credits)**

This course is an advanced study of historical and contemporary theories, forms, and techniques in one or more literary genres, which may include poetry, fiction, nonfiction, drama, and screenwriting. Specific topics of study may change from term to term, and students may repeat the course under a new topic. Consult current class schedule.

**WRWS 8106 FICTION STUDIO (4 credits)**

An advanced course in fiction writing. Emphasis on refining the techniques of developing short fiction or the novel.

**Prerequisite(s):** WRWS 3100 or permission of instructor.

**WRWS 8116 ADVANCED FICTION STUDIO II (4 credits)**

An advanced course in fiction in which students write and edit the most fully-developed short stories and/or novel sections of their college career, as well as read, analyze, and discuss assigned texts. Students examine the techniques of fiction writing, use the vocabulary and perspective they have gained so far to discuss their and others' work. They draw upon aspects of the self, the senses, imagination and memory to produce texts unique to their own voice and experience. (Cross-listed with WRWS 4100, WRWS 4110)

**Prerequisite(s):** WRWS 3100 or permission of instructor. Not open to non-degree graduate students.

**WRWS 8206 ADVANCED POETRY STUDIO I (4 credits)**

An advanced course in poetry writing. Emphasis on refining poetic technique. (Cross-listed with WRWS 4200)

**Prerequisite(s):** WRWS 3200 or WRWS 4210 or permission of instructor. Not open to non-degree graduate students.



**WRWS 8216 POETRY STUDIO (4 credits)**

A graduate workshop in poetry writing with emphasis on such elements of craft as rhythm, imagery, lineation, diction, and metaphor. The course presumes the student is familiar with principles and practice of Twentieth Century poetry in English.

**Prerequisite(s):** Graduate standing and permission of instructor based on writing sample.

**WRWS 8606 ADVANCED SCREENWRITING STUDIO I (4 credits)**

This class will focus on the craft of screenwriting: plot, format, substance, style, scene development, film structure (both independent and main stream), three dimensional characters, and precise, professional dialogue. The student will complete a feature-length screenplay over course of the semester. There will be lectures and assigned reading. Once a month the student will view the current independent offering at Film Streams. This class will guide the student in completing a work portfolio, querying agents, applying to internships, and preparing for a career in film and television. (Cross-listed with WRWS 4600).

**Prerequisite(s):** Not open to non-degree graduate students.

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